



## **CONTRACT FOR CONSULTANT'S SERVICES**

**Between**

**The Chief Engineer,  
Mumbai Metropolitan Region Development Authority  
Engineering Division, 2nd floor, MMRDA New Office Building,  
Bandra-Kurla Complex, Bandra (East), Mumbai- 400051**

**And**

**STUP Consultants Pvt. Ltd.  
Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi,  
Navi Mumbai 400705, Maharashtra, India**

**For**

**Project Management Consultancy Services for Design and  
Construction of Sewri to Worli Elevated Connector (Third call)**

**Dated: 12th March 2021**

## CONTENTS

	Page Nos.
<b>I FORM OF CONTRACT</b>	01-03
<b>II GENERAL CONDITIONS OF CONTRACT</b>	04
1. General Provisions	04
1.1 Law Governing the Contract	05
1.2 Language	05
1.3 Notices	05
1.4 Location	05
1.5 MMRDA of Member in charge	05
1.6 Authorized Representatives	05
1.7 Taxes and Duties	05
1.8 Fraud and Corruption	05
1.9 Legal Charges and Charges of Bill Forms and Stationery	05
1.10 Mode of Payment	05
<b>2. Commencement, Completion, Modification, and Termination of Contract</b>	05
2.1 Effectiveness of Contract	05-06
2.2 Commencement of Services	06
2.3 Expiration of Contract	06
2.4 Modification or Variations	06
2.5 Force Majeure	06-07
2.6 Termination	06-07
<b>3. Obligations of the Consultants</b>	10
3.1 General	10
3.2 Conflict of Interests	10-11
3.3 Confidentiality	11
3.4 Insurance to be Taken out by the Consultants	11
3.5 Consultant's Actions requiring Client's prior Approval	12
3.6 Reporting Obligations	12
3.7 Documents prepared by the Consultants to Be the Property of the Client	12
3.8 Liability of the consultant	12
3.9 Liquidated Damages and Penalties	12
<b>4. Consultants' Personnel</b>	
4.1 Description of Personnel	13
4.2 Removal and /or Replacement of Personnel	14
<b>5. Obligations of the Employer</b>	
5.1 Assistance and Exemptions	14-15
5.2 Change in the Applicable Law related to Taxes and Duties	15



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

5.3	Services and Facilities	15-16
<b>6.</b>	<b>Payments to the Consultants</b>	
6.1	Lump-sum Payment	16-18
6.2	Contract Price	
6.3	Payment for additional services	
6.4	Terms and Conditions of Payment	
<b>7.</b>	<b>Good Faith</b>	<b>18</b>
7.1	Good Faith	
<b>8.</b>	<b>Settlement Of Disputes</b>	<b>18</b>
8.1	Amicable Settlement	18
8.2	Dispute Resolution	
<b>III</b>	<b>SPECIAL CONDITIONS OF CONTRACT</b>	<b>19-21</b>
<b>IV</b>	<b>APPENDICES</b>	
	Appendix A: (Terms of Reference) Description of the Services	22-43
	Appendix B: Reporting Requirements	50-51
	Appendix-C: Key designations and minimum supporting staff - consultants professional Staff	52-169
	Appendix D: Consultancy fee and payment schedules	170-175
	Appendix E: Services and facilities provided by the Employer	176
	Appendix F: Form of Guarantee for advance payments	177
	Appendix G: Corrigendum' s / modifications / corrections, CSD as per pre bid meeting , Letter of intent, Letter of acceptance, Work order, Letter of power of attorney etc.	178-252
<b>V</b>	<b>Bank Guarantee for Performance Security</b>	<b>253-257</b>



*Amul*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

---

## **II. FORM OF CONTRACT**



महाराष्ट्र MAHARASHTRA

2021

BD 533852



जिल्हा कोषागार कार्यालय, ठाणे  
 10 MAR 2021  
*Reati*  
 मुद्रांक प्रमुख लिपीक / लिपीक

**Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector (Third call)**

**II. FORM OF CONTRACT**

This CONTRACT (hereinafter called the "Contract") is made the 12<sup>th</sup> day of the month of March, 2021, between, on the one hand **The Chief Engineer, Mumbai Metropolitan Region Development Authority** (hereinafter Called the "Employer") which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to include its successor or successors and assignee or assignees of the FIRST PART and, on the other hand, **(M/s. STUP Consultants Pvt. Ltd.)** (hereinafter called the "Consultants") of the SECOND PART.



*[Signature]*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

## WHEREAS

- (a) The Employer has requested the Consultants to provide certain consulting services as defined in the General Conditions of Contract attached to this Contract (hereinafter called the "Services");
- (b) The Consultants, having represented to the Employer that they have the required professional skills and personnel and technical resources, have agreed to provide the Services on the terms and conditions set forth in this Contract for carrying out Services for Construction and DLP period i.e. technical supervision monitoring quality assurance and other allied services including preparation of designs of structures and issue of working drawings for completion of work, project management & proof checking of the designs for the proposed work of Providing Project Management Consultancy for the work of for Design and Construction of Sewri to Worli Elevated Connector.

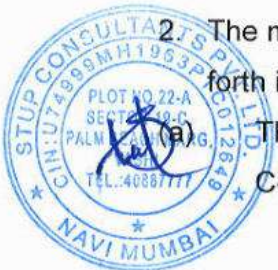
NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:

- (a) The General Conditions of Contract (hereinafter called "GC")
- (b) The Special Conditions of Contract (hereinafter called "SC");
- (c) The following Appendices :
  - Appendix A: (Terms of Reference) Description of the Services
  - Appendix B: Reporting Requirements
  - Appendix-C: Key designations and minimum supporting staff - consultants professional Staff
  - Appendix D: Consultancy fee and payment schedules
  - Appendix E: Services and facilities provided by the Employer
  - Appendix F: Form of Guarantee for advance payments
  - Appendix G: Corrigendum' s / modifications / corrections, CSD as per pre bid meeting , Letter of intent, Letter of acceptance, Work order Letter of power of attorney etc.

2 The mutual rights and obligations of the Employer and the Consultants shall be as set forth in the Contract; in particular;

- (a) The Consultants shall carry out the Services in accordance with the Provisions of the Contract; and



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

- (b) The Employer shall make payments to the Consultants in accordance with the Provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.


The Fees is Rs. 11,77,23,020/- (excluding GST) for project management (Supervision and DLP period) & proof checking of the designs for the proposed work of "Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector".

Bid of the Consultant M/s. STUP Consultants Pvt. Ltd. is approved by Metropolitan Commissioner, MMRDA on the above conditions.

**FOR AND ON BEHALF OF  
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY**

(  )  
CHIEF ENGINEER,  
ENGINEERING DIVISION

**FOR AND ON BEHALF OF CONSULTANT  
STUP CONSULTANTS PVT. LTD.**

(  )  
M/s. STUP CONSULTANTS PVT. LTD.  
(BY AUTHORIZED SIGNATORY)  
SUNIL DUTT,  
JOINT VICE PRESIDENT



---

**III. The General Conditions of Contract (hereinafter called "GC")**



### III. GENERAL CONDITIONS OF CONTRACT

#### 1. General Provisions

##### 1.1. Definitions

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) "Applicable Law" means the laws and any other instruments having the force of law in India;
- (b) "Contract" means the Contract signed by the Parties, to which these General Conditions of Contract are attached together with all the documents listed in Clause 1 of such signed Contract;
- (c) "Effective date" means the date on which this contract comes into force and effect pursuant to clause GC 2.1;
- (d) "Employer" means MMRDA represented by Metropolitan Commissioner.
- (e) "Engineer in charge" any officer designated by the Employer for the project.
- (f) "GC" means these General Conditions of Contract;
- (g) "Government" means the Government of India / Government of Maharashtra.
- (h) "Local currency" means the currency of the Indian Government;
- (i) Deleted.
- (j) "Party" means the Employer or the Consultants, as the case may be and Parties means both of them.
- (k) "Personnel" means persons hired by the Consultants or by any Sub-consultant as employees and assigned to the performance of the Services or any part thereof.
- (l) "SC" means the Special Conditions of Contract by which these General Conditions of Contract may be amended or supplemented;
- (m) "Services" means the work to be performed by the Consultants pursuant to this Contract, as described in Appendix A hereto;
- (n) "Sub-consultant" means any entity to which the Consultants subcontract any part of the Services in accordance with the provisions of Clause GC 3.7; and
- (o) "Third Party" means any person or entity other than the Government, the Employer, the Consultants or a Sub-consultant.

##### 1.2. Relation between the Parties

Nothing contained herein shall be construed as establishing a relation of master and servant or of principal and agent as between the Employer and the Consultants. The Consultants, subject to this Contract, have complete charge of Personal and Sub-consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.



**1.3. Law Governing Contract**

This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law in India.

**1.4. Language**

This Contract has been executed in the language specified in the SC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.

**1.5. Headings**

The headings shall not limit, alter or affect the meaning of this Contract.

**1.6. Notices**

1.6.1. Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telegram or facsimile to such Party at the address specified in the SC.

1.6.2. Notice will be deemed to be effective as specified in the SC.

1.6.3. A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SC with respect to Clause GC 1.6.2.

**1.7. Location**

The Services shall be performed at such locations as are specified in Appendix A (Terms of Reference) hereto and, where the location of a particular task is not so specified, at such locations, whether in Jurisdiction of Mumbai Metropolitan Region, as the Employer may approve.

**1.8. Authority of Member in Charge**

**Deleted**

**1.9. Authorized Representatives**

Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Employer or the Consultants may be taken or executed by the officials specified in the SC.

**1.10. Taxes and Duties**

Unless otherwise specified in the SC, the Consultants, Sub-consultants and Personnel shall pay such taxes, duties, fees and other impositions as may be levied under the Applicable Law.

**2. Commencements, Completion, Modification and Termination of Contract**

**2.1. Effectiveness of Contract**

This Contract shall come into force and effect on the date (the "Effective Date") notice to proceed with the work to the contractor of the work issued by MMRDA and instructing



the Consultants to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SC have been met.

## 2.2. Termination of Contract for Failure to Become Effective

If this Contract has not become effective within such time after the date of the Contract signed by the Parties as shall be specified in the SC, either Party may, by not less than four (4) weeks' written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.

## 2.3. Commencement of Services

The Consultants shall begin carrying out the Services from the date of work order

## 2.4. Expiration of Contract

Unless terminated earlier pursuant to Clause GC 2.9 hereof, this Contract shall expire when services have been completed and all payments have been made at the end of such time after the Effective Date as shall be specified in the SC.

## 2.5. Entire Agreement

This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound or be liable for, any statement, representation, promise or agreement not set forth herein.

## 2.6. Modification

Modification of the terms and conditions of this Contract, including any modification of the scope of the Services, may only be made by written agreement between the Parties. Pursuant to Clause GC 7.2 hereof, however, each Party shall give due consideration to any proposals for modification made by other Party.

## 2.7. Force Majeure

### 2.7.1. Definition

- (a) For the purpose of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to war, riots, civil disorders, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by government agencies.
- (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's Sub-consultants or agents or employees, not (ii) any event which a diligent Party could reasonably have been expected to both (A) take into account at the time of



the conclusion of this Contract and (B) avoid or overcome in the carrying out of its obligations hereunder.

(c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

**2.7.2. No Breach of Contract**

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

**2.7.3. Measures to be taken**

(a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such Party's inability to fulfill its obligations hereunder with a minimum of delay.

(b) A party affected by an event of Force Majeure shall notify the other party of such event as soon as possible, and in any event not later than fourteen (14) days falling the occurrence of such events, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.

(c) The parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

**2.7.4. Extension of Time**

Any within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

**2.7.5. DELETED.**

**2.7.6. Consultation**

Not later than thirty (30) days after the Consultants, as the result of an event of Force Majeure, have become unable to perform a material portion of the Services, the Parties shall consult with each other with a view to agreeing on appropriate measures to be taken in the circumstances.

**2.8. Suspension**

The Employer may, by written notice of suspension to the Consultants, suspend all payments to the Consultants hereunder if the Consultants fail to perform any of their obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultants to remedy such failure within a not exceeding thirty (30) days after receipt by the Consultants of such notice of suspension.

**2.9. Termination**



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**2.9.1. By the Employer**

The Employer may, by not less than thirty (30) days' written notice of termination to the Consultants (except in the event listed in paragraph (f) below, for which there shall be a written notice of not less than sixty (60) days, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (g) of this Clause GC 2.9.1 terminate this Contract:

- (a) if the Consultants fail to remedy a failure in the performance of their obligations hereunder, as specified in a notice of suspension pursuant to Clause GC 2.8 hereinabove, within thirty (30) days of receipt of such notice of suspension or within such further as the Employer may have subsequently approved in writing;
- (b) if the Consultants become (or, if the Consultants consist of more than one entity, if any of their Members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- (c) if the Consultants fail to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof;
- (d) if the Consultants submit to the Employer a statement which has a material effects on the rights, obligations or interests of the Employer and which the Consultants know to be false;
- (e) if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for a not less than sixty (60) days; or
- (f) If the Employer, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.
- (g) if the Consultant, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

"Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the selection process or in contract execution.

"fraudulent practice" means a misrepresentation of facts in order to influence a selection process or the execution of a contract to the detriment of the employer, and includes collusive practice among consultants (prior to or after submission of proposals) designed to establish prices at artificial non-competitive levels and to deprive the employer of the benefits of free and open competition.

**2.9.2. By the Consultants**

The Consultants may, by not less than thirty (30) days' written notice to the Employer, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause GC 2.9.2 terminate this Contract:



*beu*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

- (a) if the Employer fails to pay any money due to the Consultants pursuant to this Contract and not subject to dispute pursuant to Clause 8 hereof within sixty (60) days after receiving written notice from the Consultants that such payment is overdue;
- (b) if the Employer is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty - five (45) days (or such longer as the Consultants may have subsequently approved in writing) following the receipt by the Employer of the Consultants' notice specifying such breach;
- (c) if, as the result of Force Majeure, the Consultants are unable to perform a material portion of the Services for aofnot less than sixty (60) days; or
- (d) if the Employer fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.

**2.9.3. Cessation of Rights and Obligations**

Upon termination of this Contract pursuant to Clause GC 2.2 or GC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GC 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except:

- (i) such rights and obligations as may have accrued on the date of termination or expiration;
- (ii) the obligation of confidentiality set forth in Clause GC 3.3 hereof;
- (iii) the Consultants' obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GC 3.6 (ii) hereof; and
- (iv) any right which a Party may have under the Applicable Law.

**2.9.4. Cessation of Services**

Upon termination of this Contract by notice of either Party to the other pursuant to Clause GC 2.9.1 or GC 2.9.2 hereof, the Consultants shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultants and equipment and materials furnished by the Employer, the Consultants shall proceed as provided, respectively, by Clauses GC 3.9 or GC 3.10 hereof.

**2.9.5. Payment upon Termination**

Upon termination of this Contract pursuant to Clause GC 2.9.1 or GC 2.9.2 hereof, the Employer shall make the following payments to the Consultants (after offsetting against these payments any amount that may be due from the Consultant to the Employer).

- (a) Remuneration pursuant to Clause GC 6 hereof of Services satisfactorily performed prior to the effective date of termination.
- (b) Reimbursable expenditures pursuant to Clause GC 6 hereof for expenditures actually incurred prior to the effective date of termination; and



(c) Except in the case of termination pursuant to paragraphs (a) through (d) of Clause GC 2.9.1 hereof, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract including the cost of the return travel of the Consultants' personnel and their eligible dependents.

**2.9.6. Disputes about Events of Termination**

If either Party disputes whether an event specified in paragraphs (a) through (c) of Clause GC 2.9.1 or in Clause GC 2.9.2 hereof has occurred, such Party may, within forty-five (45) days after receipt of notice of termination from the other Party, refer the matter to dispute settlement pursuant to Clause GC 8 hereof.

**3. Obligations of the Consultants**

**3.1. General**

**3.1.1. Standard of Performance**

The Consultants shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with general accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advanced technology and safe and effective equipment, machinery, materials and methods. The Consultants shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Employer, and shall at all times support and safeguard the Employer's legitimate interests in any dealings with Sub-consultants or Third Parties.

**3.1.2. Law Governing Services**

The Consultants shall perform the Services in accordance with the Applicable Law and shall take all practicable steps to ensure that any Sub-consultants, as well as the Personnel of the Consultants and any Sub-consultants, comply with the Applicable Law.

**3.2. Conflict of Interests**

**3.2.1. Consultants Not to Benefit from Commissions, Discounts, etc.**

The remuneration of the Consultants pursuant to Clause GC 6 hereof shall constitute the Consultants' sole remuneration in connection with this Contract or the Services and, subject to Clause GC 3.2.2 hereof, the Consultants shall not accept for their own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations hereunder, and the Consultants shall use their best efforts to ensure that any Sub-consultants as well as the Personnel and agents of either of them, similarly shall not receive any such additional remuneration.

3.2.2. Engagement in preparation of DPR, Bid Documents for appointment of Contractor and Project Management Consultant for the "Construction of Sewri to Worli Elevated Connector" in last 5 years of the Bid Due date shall be



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

considered as conflict of interest. In such cases the firm / bidder shall not be considered as eligible for participation in this bid.

**3.2.3. Consultants and affiliates not to engage in certain activities**

The Consultants agree that, during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultants, as well as any Sub-consultant and any entity affiliated with such Sub-consultant, shall be disqualified from providing goods, works or services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

**3.2.4. Prohibition of conflicting activities**

The Consultants shall not engage, and shall cause their Personnel as well as their Sub-consultants and their Personnel not to engage, either directly or indirectly, in any of the following activities:

- (a) during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract; and
- (b) after the termination of this Contract, such other activities as may be specified in the SC.

**3.3. Confidentiality**

The Consultants, their Sub-consultants and the Personnel of either of them shall not, either during the term or within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information relating to the Project, the Services, this Contract or the Employer's business or operations without the prior written consent of the Employer.

**3.4. Liability of the Consultants**

Subject to additional provisions, if any, set forth in the SC, the Consultants' liability under this Contract shall be as provided by the Applicable Law.

**3.5. Insurance to be taken out by the Consultants**

The Consultants (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at their (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Employer, insurance against the risks, and for the coverage, as shall be specified in the SC, and (ii) at the Employer's request, shall provide evidence to the Employer showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

**3.6. Accounting, Inspection and Auditing**

The Consultants (i) shall keep accurate and systematic accounts and records in respect of the Services, hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time charges and cost, and the bases thereof (including such bases as may be specifically referred in the SC); (ii) shall permit the Employer or its designated representative ically, and up to one year from the expiration or termination of this





Contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the Employer.

**3.7. Consultants' actions requiring employer's prior approval**

The following shall obtain the Employer's approval in writing before taking any of the following actions:

- (a) appointing such members of the Personnel as are listed in **Appendix C** (Key designations and minimum supporting staff 'Consultants' Sub-consultants' Key Personnel")
- (b) entering into a subcontract for the performance of any part of the Services, it being understood (i) that the selection of the sub-consultant and the terms and conditions of the subcontract shall have been approved in writing by the Employer prior to the execution of the subcontract, and (ii) that the Consultants shall remain fully liable for the performance of the Services by the Sub-consultant and its Personnel pursuant to this Contract; and
- (c) Any other action that may be specified in the SC.

**3.8. Reporting Obligations**

The Consultants shall submit to the Employer the reports and documents specified in **Appendix B** hereto, in the form, in the numbers and within the time s set forth in the said Appendix.

**3.9. Documents prepared by the Consultants to be the property of the Employer.**

All plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Employer under this Contract shall become and remain the property of the Employer, and the Consultants shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Employer, together with a detailed inventory thereof. The Consultants may retain copy of such documents and software. Restrictions about the future use of these documents and software, if any, shall be specified in the SC.

**3.10. Equipment and materials furnished by the Employer.**

Equipment and materials made available to the Consultants by the Employer, or purchased by the Consultants with funds provided by the Employer, shall be property of the Employer and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultants shall make available to the Employer an inventory of such equipment and materials and shall dispose of such equipment and materials in accordance with the Employer's instructions. While in possession of such equipment and materials, the Consultants, unless otherwise instructed by the Employer in writing, shall insure them at the expense of the Employer in an amount equal to their full replacement value.

**4. Consultants' personnel and sub-consultants**

**4.1. General**

The Consultants shall employ and provide such qualified and experienced Personnel and Sub-consultants as are required to carry out the Services as specified in V APPENDICE –



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**A clause.17. Broad qualification and experience requirement for key professional Staff for Period.**

**4.2. Description of personnel**

- (a) The titles, agreed job descriptions, minimum qualification and estimated of engagement in the carrying out of the Services of each of the Consultants' Key Personnel are described in Appendix C. If any of the Key Personnel has already been approved by the employers his / her name is listed as well.
- (b) If required to comply with the provisions of Clause GCC 3.1.1 hereof, adjustments with respect to the estimated engagement of Key Personnel set forth in **Appendix C** may be made by the Consultants by written notice to the Employer, provided (i) that such adjustments shall not alter the originally estimated of engagement of any individual by more than 10% or one week, whichever is larger, and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1 (b) of this Contract. Any other such adjustments shall not be made without the Employer's written approval.
- (c) If additional work is required beyond the scope of the Services specified in **Appendix A**, the estimated of engagement of Key Personnel set forth in **Appendix C** may be increased by agreement in writing between the Employer and the Consultants, provided that any such increase shall not, except as otherwise agreed, cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1 (b) of this Contract.

**4.3. Approval of personnel**

The Key Personnel and Sub-consultants listed by title as well as by name in **Appendix C** as hereby approved by the Employer. In respect of other Key Personnel which the Consultants propose to use in carrying out of the Services, the Consultants shall submit to the employer for review and approval a copy of their biographical data and (in the case of Key personnel to be used within the country of the Government). If the Employer does not object in writing (stating the reasons of the objection) within twenty-one (21) calendar days from the date of receipt of such biographical data and (if applicable) such certificate, such Key Personnel shall be deemed to have been approved by the Employer.

**4.4. Working hours, overtime, leave etc.**

- (a) Working hours and holidays for Key Personnel are set forth in **Appendix C** hereto. To account for travel time, foreign Personnel carrying out Services inside India shall be deemed to have commenced (or finished) work in respect of the Services such number of days before their arrival (or after their departure from).
- (b) The Key Personnel shall not be entitled to be paid for overtime nor to take paid sick leave or vacation leave except as specified in Appendix C hereto, and except as specified in such Appendix, the Consultants n' remuneration shall be deemed to cover these items. All leave to be allowed to the Personnel is included in the staff-months of service set forth in Appendix C. Any taking of leave by Personnel shall be



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

subject to the prior approval by the Consultants who shall ensure that absence for leave purposes will not delay the progress and adequate supervision of the Services.

**4.5. Removal and / or replacement of personnel**

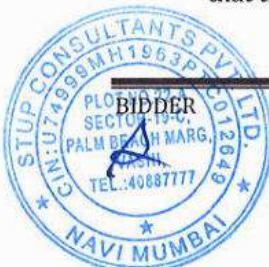
- (a) Except as the Employer may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultants, it becomes necessary to replace any of the Personnel, the Consultants shall forthwith provide as a replacement a person of equivalent or better qualifications.
- (b) If the Employer (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultants shall, at the Employer's written request specifying the grounds therefore, forthwith provide as a replacement a person with qualifications and experience acceptable to the Employer.
- (c) Any of the Personnel provided as a replacement under Clauses (a) and (b) above, the rate of remuneration applicable to such person as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Consultants may wish to claim as a result of such replacement, shall be subject to the prior written approval by the Employer. Except as the Employer may otherwise agree, (i) the Consultants shall bear all additional travel and other costs arising out of or incidental to any removal and / or replacement, and (ii) the remuneration to be paid for any of the personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced.
- (d) After award of contract the Client expects all of the proposed key personnel to be available during implementation of the contract. The client will not consider substitutions during contract implementation except under exceptional circumstances. For the reason other than death/ extreme medical ground (i) for total replacement up to 10% of key personnel, remuneration shall be reduced by 10% (ii) for replacement between 10% to 50%, remuneration shall be reduced by 15% (iii) for replacement beyond 50% of the total key personnel, the Client may initiate debarment proceedings so as to debar such consultant for future projects of MMRDA for a period of 12 months to 24 months. If, for any reason beyond the reasonable control of the consultants, it becomes necessary to replace any of the personnel, the consultants shall forthwith provide as a replacement a person of equivalent or better qualification and experience.

**4.6. Deleted.**

**5. Obligations of the Employer**

**5.1. Assistance and Exemptions**

Unless otherwise specified in the SC, the Employer shall use its best efforts to ensure that the Government shall:



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

- (a) assist the Consultants, Sub-consultants and Personnel with such documents as shall be necessary to enable the Consultants, Sub-consultants or Personnel to perform the Services.
- (b) assist for the Personnel and, if appropriate, their eligible dependents to be provided promptly with all necessary entry documents required for their stay in India.
- (c) DELETED
- (d) Issue to officials, agents and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services;
- (e) assist the Consultants and the Personnel and any Sub-consultants employed by the Consultants for the Services from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity according to the Applicable Law;
- (f) grant to the Consultants, any Sub-consultant and the Personnel of either of them the privilege, pursuant to the Applicable Law, of bringing into Government's country reasonable amounts of foreign currency for the purpose of the services or for the personnel use of the personnel and their dependents and of withdrawing any such amounts as may be earned therein by the personnel in the execution of the services ; and
- (g) Provide to the Consultants, Sub-consultants and Personnel any such other assistance as may be specified in the SC.

#### 5.2. Access to Land

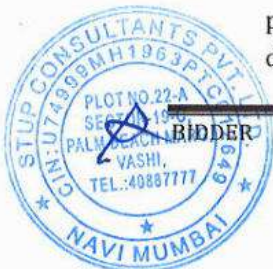
The Employer warrants that the Consultants shall have, free of charge, unimpeded access to all land in the Government's country in respect of which access is required for the performance of the Services. The Employer will be responsible for any damage to such land or any property thereon resulting from such access and will indemnify the Consultants and each of the Personnel in respect of liability for any such damage, unless such damage is caused by the default or negligence of the Consultants or any Sub-consultant or the Personnel of either of them.

#### 5.3. Changes in the Applicable Law

If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increase or decreases the cost or reimbursable expenses incurred by the Consultants in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultants under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GC 6.1 (b).

#### 5.4. Services, facilities and property of the Employer

The Employer shall make available to the Consultants and the Personnel, for the purposes of the services and free of any charge, the services, facilities and property described in **Appendix E** at the times and in the manner specified in said **Appendix E**,



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

provided that if such services, facilities and property shall not be made available to the Consultants as and when so specified, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultants for the performance of the Services, (ii) the manner in which the Consultants shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultants as a result thereof pursuant to Clause GC 6.1 (c) hereinafter.

#### 5.5. Payment

In consideration of the Services performed by the Consultants under this Contract, the Employer shall make to the Consultants such payments and in such manner as is provided by Clause GC 6 of this Contract.

#### 5.6. Counterpart Personnel

(a) If so provided in Appendix E hereto, the Employer shall make available to the Consultants, as and when provided in such Appendix E, and free of charge, such counterpart personnel to be selected by the Employer, with the Consultants' advice, as shall be specified in such Appendix E. Counterpart personnel shall work under the exclusive direction of the Consultants. If any member of the counterpart personnel fails to perform adequately any work assigned to him by the Consultants, which is consistent with the position occupied by such member, the Consultants may request the replacement of such member, and the Employer shall not unreasonably refuse to act upon such request.

(b) Deleted

### 6. Payments to the Consultants

#### 6.1. Cost Estimates /Ceiling Amount

- (a) An estimate of the cost of the Services payable in local currency is set forth in **Appendix D**.
- (b) Except as may be otherwise agreed under Clause GC 2.6 and subject to Clause GC 6.1 (c), payments under this Contract shall not exceed the ceilings in local currency specified in the SC. The Consultants shall notify the Employer as soon as cumulative charges incurred for the Services have reached 80% of either of these ceilings.
- (c) Notwithstanding Clause GC 6.1 (b) hereof, if pursuant to clauses GC 5.3, 5.4 or 5.6 hereof, the Parties shall agree that additional payments in local currency shall be made to the Consultants in order to cover any necessary additional expenditures not envisaged in the cost estimates referred to in Clause GC 6.1(a) above, the ceiling or ceilings, as the case may be, set forth in Clause GC 6.1 (b) above shall be increased by the amount or amounts, as the case may be, of any such additional payments.

#### 6.2. Remuneration and reimbursable Expenditures

- (a) Subject to the ceilings specified in Clause GC 6.1 (b) hereof, the Employer shall pay to the Consultants (i) remuneration as set forth in Clause GC 6.2 (b), and (ii)



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

reimbursable expenditure as set forth in Clause GC 6.2 (c). If specified in the SC, said remuneration shall be subject to price adjustment as specified in the SC.

- (b) Remuneration for the Personnel shall be determined on the basis of time actually spent by such Personnel in the performance of the Services after the date determined in accordance with Clause GC 2.3 and Clause 2.3 (or such other date as the Parties shall agree in writing) at the rates referred to, and subject to such additional provisions as are set forth, in the SC.
- (c) Reimbursable expenditures actually and reasonably incurred by the Consultants in the performance of the Services, as specified in Clause SC 6.3 (b)

**6.3. Currency of Payment**

- (a) DELETED
- (b) The SC shall specify which items of remuneration and reimbursable expenditures shall be paid, respectively, in foreign and in local currency.

**6.4. Mode of Billing and Payment**

Billing and payments in respect of the Services shall be made as follows:

- (a) DELETED.
- (b) As soon as practicable and not later than fifteen (15 days) after the end of each calendar month during the Services, the Consultants shall submit to the Employer, in duplicate, itemized statements, accompanied by copies of receipted invoices of the amounts payable pursuant to Clauses GC 6.3 and 6.4 for such month. Each such separate monthly statement shall distinguish that portion of the total eligible costs which pertains to remuneration from that portion which pertains to reimbursable expenditures.
- (c) The Employer shall cause the payment of the Consultants icily as given in schedule of payment above within sixty (60) days after the receipt by the Employer of bills with supporting documents. Only such portion of a monthly statement that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultants, the Employer may add or subtract the difference from any subsequent payments. Interest at the rate specified in the SC shall become payable as from the above due date on any amount due by, but not paid on, such due date.
- (d) The final payment under this Clause shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultants and approved as satisfactory by the Employer. The Services shall be deemed completed and finally accepted by the Employer and the final report and final statement shall be deemed approved by the Employer as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the Employer unless the Employer, within such ninety (90) day , gives written notice to the Consultants specifying in detail deficiencies in the Services, the final report or final statement. The Consultants shall thereupon promptly make any necessary corrections, and upon completion of such corrections, the foregoing process shall be repeated. Any amount which the Employer has paid or caused to



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this contract shall be reimbursed by the Consultants to the Employer within thirty (30) days after receipt by the Consultants of notice thereof. Any such claim by the Employer for reimbursement must be made within twelve (12) calendar months after receipt by the Employer of a final report and a final statement approved by the Employer in accordance with the above.

- (e) All payments under this Contract shall be made to the account of the Consultants specified in the SC.

## 7. Fairness and good faith

### 7.1. Good Faith

The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

### 7.2. Operation of the Contract

The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to dispute subject to arbitration in accordance with Clause GC 8 hereof

## 8. Settlement of Disputes

### 8.1. Amicable Settlement

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or the interpretation thereof.

### 8.2. Dispute Settlement

Any dispute between the Parties as to matters arising pursuant to this Contract which cannot be settled within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be submitted by either Party for settlement in accordance with the provisions specified in the SC.

-----



---

**IV. The Special Conditions of Contract (hereinafter called "SC")**



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

#### IV. SPECIAL CONDITIONS OF CONTRACT

Number of Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract.
1.1(g)	"Government" means the Government of India / Government of Maharashtra.
1.4	The language is: English
1.6.1	The address is: <b>a) Employer:</b> Engineer-in-Chief / Chief Engineer, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA) C14-C15, E-BLOCK, Bandra-Kurla Complex, Bandra (East), Mumbai - 400 051. Fax:022-26594076 E-mail: <a href="mailto:chiefengineer1@mailmmrda.maharashtra.gov.in">chiefengineer1@mailmmrda.maharashtra.gov.in</a> <b>b) Consultants:</b> STUP CONSULTANTS PVT. LTD. PLOT NO. 22A, SECTOR-19C, PALM BEACH MARG, VASHI, NAVI MUMBAI Fax: (022) 27836248 E-mail: <a href="mailto:navimumbai@stupmail.com">navimumbai@stupmail.com</a>
1.6.2	Notice will be deemed to be effective as follows: (a) in the case of personal delivery or registered mail, on delivery; (b) in the case of telegrams, 24 hours following confirmed transmission; and (c) in the case of facsimiles, 24 hours following confirmed transmission.
1.9	The Authorized Representatives are: <b>For the Employer::</b> 1) Chief Engineer, Engineering Division, MMRDA <b>For the Consultants:</b> 1) Shri. SUNIL DUTT, JOINT VICE PRESIDENT
1.10	The consultants, Sub-consultants and the Personnel shall pay the taxes, duties, fees, levies and other impositions levied under the existing, amended or enacted laws during life of this contract and the employer shall perform such duties in regard to the deduction of such tax as may be lawfully imposed.
2.2	The time shall be 45 days.
2.3	The time shall be 7 days.
2.4	The time of contract shall be 36 months Plus DEFECT LIABILITY period of 60 months. The time will commence from work order issued to the Consultant.
3.4.	<b>Limitation of the Consultants liability towards the Employer.</b> (a) Except in case of gross negligence or willful misconduct on the part of the Consultants or on the party of any person or firm acting on behalf of the Consultants in carrying out the Services, the Consultants, with respect to damage caused by the Consultants to their Employer's property, shall not be liable to the Employer : (i) For any indirect or consequential loss or damage; and (ii) For any direct loss or damage that exceeds (A) the total payments for Professional Fees and Reimbursable Expenditures made or expected to be made to the Consultants



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Number of Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract.
	<p>hereunder, or</p> <p>(B) the proceeds the Consultants may be entitled to receive from any insurance maintained by the Consultants to cover such a liability, whichever of (A) or (B) is higher.</p> <p>(b) This limitation of liability shall not affect the Consultants' liability, if any, for damage to Third Parties caused by the Consultants or any person or firm acting on behalf of the Consultants in carrying out the Services.</p>
3.5	<p><b>The risks and the coverage shall be as follows:</b></p> <p>(a) Third Party motor vehicle liability insurance as required under Motor Vehicles Act, 1988 in respect of motor vehicles operated in India by the Consultants or their Personnel or any Sub-consultants or their Personnel for the of consultancy.</p> <p>(b) Third Party liability insurance with a minimum coverage, of Rs. 5.00 lacs for the of consultancy.</p> <p>(c) Professional liability insurance, as mentioned in Clause 3.4 (a) (ii) above, with a minimum coverage equal to estimated remuneration and reimbursable.</p> <p>(d) Employer's liability and workers' compensation insurance in respect of the Personnel of the Consultants and of any Sub-consultant, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate; and</p> <p>(e) Insurance against loss of damage to (i) equipment purchased in whole or in a part with funds provided under this Contract, (ii) the Consultants' property used in the performance of the Services, and (iii) any documents prepared by the Consultants in the performance of the Services.</p> <p>(f) 3.7(c) The other actions are:</p> <p>(i) Taking any action under a civil works contract designating the Consultants as "Engineer", for which action, pursuant to such civil works contract, the written approval of "Employer" is required.</p>
3.9	The Consultants shall not use these documents for purposes unrelated to this Contract without the prior written approval of the Employer.
4.6	The person designated as Team Leader in Appendix C, shall serve in that capacity as specified in GCC Clause 4.6.
6.1.(b)	The ceiling in local currency is the standard fee prescribed in the Appendix-D
6.2.(a) (ii)	Nil
6.2 (b) (i)	<p>1) It is understood (i) that the remuneration rates shall cover (A) such salaries and allowances as the Consultants shall have agreed to pay to the Personnel as well as factors for social charges and overhead, and (B) the cost of backstopping by home office staff not included in the Personnel listed in Appendix C, and (C) the Consultants' fee, (ii) that bonuses or other means of</p>



*beey*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Number of Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract.
	<p>profit-sharing shall not be allowed as an element of overhead, and (iii) that any rates specified for persons not yet appointed shall be provisional and shall be subject to revision, with the written approval of the Employer, once the applicable salaries and allowances are known.</p> <p>2) Remuneration for period of less than one month shall be calculated on an hourly basis for actual time spent in the Consultants' home office and directly attributable to the Services (one hour being equivalent to 1/240<sup>th</sup> of a month) and on a calendar day basis for time spent away from home office (one day being equivalent to 1/30<sup>th</sup> of a month).</p>
6.2 (b) (ii)	The rates for local Personnel are set forth in Appendix D.
6.3(b)(i)	Remuneration for local Personnel shall be paid in local currency.
6.4 (a)	deleted
6.4 (c)	The interest rate is: Nil
6.4 (e)	the accounts are: - For local currency:
8.2	<p><b>Disputes shall be settled in accordance with the following provisions:</b></p> <p>8.2.1 If a dispute of any kind whatsoever arises between the Engineer-in-charge and the Consultant in connection with, or arising out of, the Contract or the scope of the work, whether during the study or after completion of the study and whether before or after repudiation or termination of the Contract, including any dispute as to any opinion, instruction, determination, certification or valuation of the Engineer In charge, the matter shall be in the first place, be referred in writing to the Engineer In charge within 30 days of its occurrence for review, with a copy to the Employer. If the Consultant fails to refer the dispute for review within 30 days, the Engineer In charge's decision shall be final and binding on the Consultant. Such reference shall state that it is made pursuant to this Clause. No later than the fourteenth day after the day on which he received such reference, the Engineer In charge shall give notice of his decision to the Employer and the Consultant. Such decision shall state that it is made pursuant to this Clause.</p> <p>Notwithstanding the arising of any dispute, unless the Contract has already been repudiated or terminated, the Consultant shall, in every case, continue to proceed with the work with all due diligence and the Consultant and the Engineer In charge shall give effect forthwith to every such decision unless and until the same shall have been revised, as hereinafter provided.</p> <p>8.2.2 If either the Employer or the Consultant disagrees with the decision of the Engineer In charge, the decision shall then be referred by the Employer or by the Consultant, within 30 days of the decision of the Engineer-In-charge to the Metropolitan Commissioner, MMRDA. The decision of the Metropolitan Commissioner, MMRDA shall be final and binding on both the parties.</p>



---

**Appendix A: Description of Services (Terms of Reference)**

### Appendix-A

#### Project Management Consultancy

##### 1.1. Introduction:

MMRDA has prepared the Detailed Project Report for Sewri to Worli Elevated Connector.

- 1.2. The Mumbai Metropolitan Region Development Authority (MMRDA) will be the Implementing Agency for the Projects. The scope of work will be primarily but not limited to the following:

##### Scope of work

Providing Project Management Consultancy Services during construction period and DLP Sewri to Worli Elevated Connector .i.e. technical supervision, monitoring quality assurance, contract management and other allied services including supervision of geotechnical investigations, detailed scrutiny of designs and issuing working drawings submitted by the Contractor for the Elevated Bridge & its approaches, Construction of slip Road, foundation and substructure for ROBS at Sewri & Elphinston railway station , , reinstatement of SWD and Footpath damaged during construction , implementation of Traffic improvement plans, Utility investigation & Utility Diversion plan & implementation of Preparation & implementation of Quality Assurance Plan, Preparation & implementation of Safety Plan, Implementation of Environment Monitoring plan, CRZ condition compliance , Preparation of traffic diversion plan & approval from competent traffic authority. Permissions from MCGM tree Authority for tree cutting & compliance of condition, preparation & follow up of Resettlement & Rehabilitation proposal for the project etc..

Detail scope of work is mentioned in Chapter I-C scope of work.

In order to quickly take up the implementation of the project it is proposed to appoint suitable consultants to supervise and get work done from the contractor as per specifications laid down in the tender documents. Consultant with proven relevant experience in implementing projects of a similar nature and size will be appointed for Construction supervision contract. The consultants may submit their proposals considering the above-mentioned components.

In order to quickly take up the implementation of the project it is proposed to appoint suitable consultants to supervise and get work done from the contractor as per specifications laid down in the tender documents. Consultant with proven relevant experience in implementing projects of a similar nature and size will be appointed for Construction supervision contract. The consultants may submit their proposals considering the above-mentioned components.

The Consultants may, if they wish, services of other consultants / sub-consultants in order to enhance their capability/capacity. They may also hire the services of suitably qualified and experienced key professional staff (ensuring their availability for the project duration) to enhance the quality of the team, if such staff is not readily available



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

within their own organization. However, majority of the key professional staff should be permanent employees of the consultants.

**1.3. Objective of the Consultancy:**

The Consultancy services shall include:

- i) Construction supervision, Project Management, Contract Management, Quality Control and Assurance during the implementation of the project & allied works.
- ii) Detailed scrutiny of designs of structures submitted by contractor and issue of working drawings for the work.
- iii) Ensure that high quality construction is achieved and all works are executed in full compliance with the engineering design, technical specifications and other stipulations of the contract documents and within the specified time.

**1.4. Scope of Work:**

The assignment will be as below.

**3.1 Services in construction**

**3.2 Services in DLP**

**1.5. Scope and detailed tasks under:**

Services in construction phase and DLP phase.

The consultants shall supervise the Civil Works of the Contractor appointed by MMRDA under and as per the directives of the Engineer-in-charge of MMRDA for the said work.

The tasks are as below:

**1.6. The Works:**

The subjected work generally includes the following tasks, (but not limited to these) as required on existing/proposed alignments:

1. Design & Construction of four lane bridge & its approaches
2. Design and construction of foundation and substructure work for ROB at Sewri Railway station and Elphinston Railway station (New Prabhadevi Road)
3. Construction of slip roads at Elphinston Bridge
4. Traffic safety features including traffic control during construction
5. Road signs and markings
6. Environmental protection measures
7. Strengthening, relocation of affected utility services
8. Construction of C.C./R.C.C. Retaining Walls /Reinforced earth structure
9. Reinstatement of existing roads damaged during construction.
10. Maintenance of existing road & storm water drains during construction period
11. Relocation /Shifting of storm water drains affected during construction
12. Environmental protection measures /compliance of the clearances/EMP
13. Allied ancillary Works

The detailed scope of work is mentioned in Chapter I-C scope of work.

**DLP**

DLP will commence from date of completion of the project as per Completion Certificate issued for the work by Engineer in Charge. DLP will be bifurcated in two parts



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

- a) DLP for flexible pavement 2 Years  
b) DLP for Rigid pavement & structures 5 Years

1.7. **The Consultants role:**

MMRDA in its role as 'Employer' will engage the Consultancy firm to undertake supervision and contract management of the proposed construction work including proof checking of designs. The Senior Resident Engineer of the so selected consultant will be working under the "Engineer in-charge of MMRDA" and submit day-to-day report to him. The Engineer-in-charge will be overall in-charge of the Project for all decisions and instructions.

- 1.8. Supervision team will be composed of suitably qualified and experienced staff. The indicative qualifications and experience criteria are given in **Annexure-I** of the TOR. The criteria indicated are given for the guidance of the consultants. The relevant professional experience means the actual experience in the concerned area of expertise on similar highways projects. The quality of experience will be given due weightage during the evaluation and award of contract.
- 1.9. The suggested qualifications and experience for sub-professional staff indicated in **Annexure-I** shall determine the approval of these personnel. The Employer's approval in respect of these personnel shall be required before deployment.
- 1.10. For all positions as mentioned Appendix C the deployment of appropriate personnel is considered essential for the successful completion of the project. Consultants are therefore advised to propose highly experienced and competent personnel for these positions.

1.11. **Duties and responsibilities of PMC and their representatives:**

The duties of the PMC and their representatives are described as under:

- i) Proof checking of Design submitted for Flyover elements (Ancillary & Main viaduct work)
- ii) Giving the layout of the work as per the approved drawings.
- iii) Assisting the Engineer-in-charge of MMRDA for executing the work as per the provisions and specifications of the Bid documents. This would include timely completion of the critical activities, quality control and Quality assurance.
- iv) Preparing the Daily, Weekly and Monthly reports and submitting them to the Engineer-in-charge for appraisals and orders in the matter.
- v) Preparing running account bills as per the directives of Engineer-in-charge for scrutiny, processing and payment of the bills to the contractor.
- vi) Preparing final bill as per the directives of Engineer-in-charge including compliance of technical and audit remarks if any.
- vii) Assisting Engineer-in-charge during the defects liability as per the terms of the contract.

- 1.12. The duties of the PMC shall be to carrying out proof checking of Structural design and working drawings, issue of working drawings (Good for Construction) of each component of work to the Contractor for execution, properly supervise the works and approve the materials and workmanship for the works in co-operation and in consultation with Engineer-in-charge. The PMC shall administer all the construction



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

works contracts and will ensure that the contractual provisions, whether related to quality or quantities of the work are duly implemented. The PMC shall have no authority to relieve the contractors of any of their duties or obligations under the construction contracts or to impose additional obligations not included in the contracts. The duties of the Engineer will also include issue of drawings, details as approved by Engineer-in-charge, MMRDA as specified in detail in the construction contract documents and co-ordination of the individual supervision teams to ensure that technical policies are correctly and consistently implemented on all the construction contracts. The principal responsibilities of the PMC will be, but will not be limited to, the following:

1. To carry out generally all the duties of the PMC as specified in the construction contract, within any limitations specified therein.
2. To ensure that the detailed design and working drawings are issued to the contractor in time.
3. To ensure that the construction works are in accordance with the technical specifications. Environmental Management Plan and other stipulations of the construction contract documents.
4. To check the feasibility of drawings prepared by MRIDC for ROB & FOB work at Sewri & Prabhadevi (Elphinston road). Also to supervise the work of foundation substructure of ROB & FOBs in consultation with MRIDC till the completion of the work assigned to MRIDC.
5. To ensure a system of quality assurance of work, approve materials and their sources, review bituminous mix designs and concrete mix designs proposed by the contractors and approve/suggest modifications to the contractor's proposed mix designs, laying methods, sampling and testing procedures and quality control measures to ensure the required standard and consistency in quality.
6. To check the laboratory and field tests carried out by the contractors and to develop a mechanism in consultation with the employer to involve the Team Leader / Resident Engineers in carrying out an adequate number of independent tests other than the regular testing done by laboratory personnel;
7. To monitor and check the daily quality control and quantity measurements of the works carried out under the contracts, keep all measurement records as per the directions of the employer and submit interim payment proposals when the quality of the works is satisfactory and the quantities are correct to the Engineer-in-charge, MMRDA.
8. To direct the contractors to take all necessary steps including those mentioned in the construction contract to protect the environment on and off the site which arise due to construction operations .
9. To issue certificates for interim payments to the contractors, and certify completion of parts of the totality of the works where applicable. Details of interim progressive payments are to be recorded in a measurement book before issue of interim certificates.



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

10. Other responsibilities of the PMC will be to carry out all such duties which are essential for the effective implementation of the construction contracts including, but not limited to, the following:
- a) To prepare, in consultation with the employer a construction supervision manual defining routines and procedures to be adopted in contract management, construction supervision and administration of the contracts and a maintenance manual for defects liability and beyond.
  - b) To assist/advise the employer in handing over the sites and in establishing milestones (if any) for completion of contracts.
  - c) To prepare in consultation with the employer guidelines to be adopted by the employer during the defects liability and maintenance manual for a further of 5 years.
  - d) To verify the list of items and quantities of all items in the BOQ and propose modifications to the same, if necessary, for the approval of the Employer.
  - e) To assist the employer in monitoring the progress of the works and in project implementation through computer aided project management techniques and Management Information Systems (MIS).
  - f) To write a daily project diary which shall record all events pertaining to the administration of the contracts, requests from and orders given to the contractors, and any other information which may at a later date be of assistance in resolving queries which may arise concerning the execution of the works and shall be submitted to Engineer-in-charge.
  - g) To prepare and submit daily, monthly and quarterly progress reports, together with detailed quality control test statements in an approved format and to prepare a detailed sectional/final completion report for each contract and complete team final report for the project.
  - h) To prepare as necessary detailed recommendations to the employer for contract variations and addenda to ensure the best possible technical results are achieved with the available funds.
  - i) To assist the employer in taking over of completed works from the contractors, in particular by preparing lists of defects to be corrected by the contractors.
  - j) To prepare specific engineering reports when requested by the Engineer which shall include an analysis of the problems encountered and proposed solutions.
  - k) To assist the employer in providing clarifications/explanations to observations, if any, made from time to time by the Auditor.
  - l) To prepare a training manual outlining the training procedures and to impart on the job training to the employer's personnel associated with the project.
  - m) To prepare revised estimates etc., if required and accordingly advise P.I.U. in modifying the cash flow estimate.
  - n) To assist the employer in co-ordination with other agencies and hold co-ordination meetings to facilitate the proper and timely implementation of the project.



BIDDER

Page 64

MMRDA

*Wavy*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

- o) To carry out any other duties relevant to the project agreed during contract negotiations.

**1.13. Actions requiring specific approval of the Employer.**

The Engineer will be required to obtain the specific approval of the Employer in respect of the following:

- i) Approving subletting of works
- ii) Granting claims to the agency
- iii) Ordering suspension of the work
- iv) Determining an extension of time.
- v) Ordering waving off the penalty and arranging the repayment of compensation for delay
- vi) Issuing a variation order
- vii) Ordering any works/test beyond the scope of the contract
- viii) Determining rates for the extra items/extra work
- ix) Any variation in the contract conditions.

**1.14. Duties and responsibilities of the Key persons: :**

Detailed information on the major tasks and duties each member of the 4 engineering design team and the construction supervision team shall perform is provided as follows:

Position	Major Tasks & Duties
Team leader	<p>The Team Leader shall function as the Engineer's Representative in administering the Contract. The Team Leader shall manage and coordinate the consulting team to ensure the Project is implemented in accordance with the Contract including &amp; It includes &amp; without being limiting to:</p> <p><b>A. During Design stage</b></p> <ol style="list-style-type: none"> <li>i. To develop project control systems.</li> <li>ii. To finalize of project organization chart.</li> <li>iii. To establish project communication and reporting system.</li> <li>iv. To prepare of Project Master Schedule with base line.</li> <li>v. To prepare Design / Drawings deliverables schedule.</li> <li>vi. To Co-ordinate and follow-up with contractor's design consultants for their inputs</li> <li>vii. To set up ,track, monitor a design deliverable schedule</li> <li>viii. To Monitor the progress of Checking and approval of the Contractor's design &amp; issue of working drawings in accordance with Contractors' work programs.</li> <li>ix. To Review all surveys, field investigations, designs, drawings and specifications, recommending any changes needed to provide more cost-effective solutions, and approving the design, drawings and changes in the specification;</li> <li>x. To maintain Cost control during all stages of design and design development</li> </ol>



*Devi*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
	<p><b>B. During construction stage</b></p> <ol style="list-style-type: none"> <li>i. Monitoring, inspecting and certifying the temporary and permanent Works ensuring they are constructed in accordance with the provisions of the Contract, including the Contractor's approved Quality Assurance Plan, Health and Safety Plan, Environmental Management Plan and Method Statements.</li> <li>ii. Ensuring that the construction methods as proposed by the Contractor comply with the requirements of the approved EMP, including implementation of the Environmental Monitoring Plan;</li> <li>iii. Monitoring the Contractor's laboratory testing and carrying out Independent testing as required through quality control Engineers</li> <li>iv. Coordinate the preparation, approval of the Project Security Plan and implementation by the Contractor.</li> <li>v. Measuring the Works agreeing and certifying interim and final payment certificates for submission to the client.</li> <li>vi. Assess and, where appropriate, make recommendations on applications of contractor for extension of time, claims for additional payment and other contractual disputes issuing site instructions, variation orders, provisional sum orders and day works orders, as appropriate.</li> </ol> <p><b>C. Monitoring physical and financial progress</b></p> <ol style="list-style-type: none"> <li>i. Monitoring project development against agreed scheduling.</li> <li>ii. Review and agree with the Employer the Contractors' work programs and subsequently monitoring the construction progress in accordance with Contract requirements.</li> <li>iii. Updating / revising project scheduling, developmental goals, physical and financial achievements.</li> <li>iv. Assist Client in Forward physical and financial Planning.</li> <li>v. Preparing &amp; submitting Monthly Progress Reports &amp; Quarterly Progress Reports in a form agreed and submit these within 10 days of the end of the month to which they refer; These reports to cover physical progress, financial progress, compliance with the environmental mitigation requirements, results of the project performance monitoring system, quality control, work progress, implementation issues, and arbitration or litigation etc.</li> </ol> <p><b>D. Post construction period</b></p> <ol style="list-style-type: none"> <li>i. Advice about probable date of Substantial Completion</li> <li>ii. Preparing &amp; addressing the schedule of defects</li> <li>iii. Provide assistance in Testing and commissioning of the facility</li> <li>iv. Collection and integration of various O and M manuals,</li> <li>v. Reconciliation and Certification of Final bills of contractors,</li> </ol>



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
	<p>vi. Preparation of project close-out report including maintenance manual.</p> <p>vii. Collate and verify all As-built drawings</p> <p>viii. Addressing any queries during defects liability period .</p> <p>ix. Co-ordination with the Contractors to rectify the defects during the defects liability period,</p> <p><b>E. Overall project</b></p> <p>i. Monitoring traffic diversion plan by maintaining close liaison with the Employer and other relevant agencies including the police, other government and regional authorities and, local stakeholders;</p> <p>ii. Identifying sub-surface, surface and overhead utility services may be sewer, water mains, storm water drains, telephone cables, electric lines, etc. essential and have to be maintained in working order during different stages of construction by temporary/permanent diversions or by supporting in position. Since these affect construction and project implementation time schedule/ costs for which necessary planning/ action needs to be initiated in advance.</p> <p>iii. To Lead project meetings as necessary for review of progress by conducting weekly meeting with contractor to identify problems for monitoring project development goals against stipulated goals in project indicator framework.</p> <p>iv. Attending all meeting with clients ,drafting minutes of meetings, and records of all other contractually relevant matters</p> <p>v. To feedback to client on the Master Budget of the project</p> <p>vi. Assisting client in dealing with RTI compliance, Audit, Public relations (excluding media reports) and Compliant redress.</p>
<b>Resident Engineer</b>	<p>The duties of the Resident Engineer are under the overall control to supervise construction of the work and to test or order to test and examine any materials to be used or workmanship employed in connection with the works. They shall have no authority to relieve the contractor of any of their duties or obligations under the contract or to order any works involving delay or any extra payment, or to make any variation of quantities or rates in the works. The Team Leader may from time to time delegate to the resident engineer any of the duties and authorities vested in his scope and he may at any time revoke such delegation. The principal responsibilities of the resident engineer are likely to be as follows:</p> <p>i. To assist Team Leader in administering the Contract &amp; performing all above tasks</p> <p>ii. To manage and coordinate the consulting team to ensure the Project</p>



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
	<p>is implemented in accordance with the Contract in consultation with the Team Leader.</p> <p>iii. Lead the construction supervision task teams. Ensure all deliverables are prepared in accordance with quality and time constraints.</p> <p>iv. Ensure full and detailed permanent site records, which will include site correspondence, survey data, quality acceptance data, site diaries, measurement and certification, minutes of meetings, and records of all other contractually relevant matters.</p> <p>v. To Review and check the bill of quantities prepared by contractor &amp; scrutinized by Quantity surveyor</p> <p>vi. Certify advance payments in accordance with the contracts when necessary.</p> <p>vii. Certify interim and final payment certificates for submission to the employer,</p> <p>viii. Ensure that all supervision team members undertake comprehensive day-to-day field contract supervision, quality assurance, measurements and administration services at the site.</p> <p>ix. Provide the contractors with all necessary survey data and reference for setting out the works.</p> <p>x. Receive, assess and approve the contractors' implementation work plans and programs.</p> <p>xi. Ensure that the rehabilitation works are executed in accordance with all the provisions of the contract, including those concerning standards of workmanship, and other safety provisions and protection of the environment.</p> <p>xii. Day to day correspondences including contractual issues.</p>
<b>Structural Engineer (PC &amp; steel)</b>	<p>i. To study &amp; Analyze Employer's requirement for design.</p> <p>ii. To Prepare the Design Brief in terms of function ability, cost, time, quality and safety</p> <p>iii. To Check &amp; verify designer's submissions (design basis reports, value engineering, cost benefit analysis, drawings etc)</p> <p>iv. To review and approve the Detailed Engineering Design, including all drawings, specifications and supporting calculations and documentation for the Project submitted by the Contractor.</p> <p>v. To Confirm with contractor that all design conditions including design code, control points such as position of public utilities, and cross sections in collaboration with Highway Engineer</p> <p>vi. To Conduct the full basic design, mainly span arrangement, type of superstructure/substructure/foundation based on the preliminary structural analysis before the detailed design approval</p> <p>vii. Conduct the detailed design of the bridges based on the approved</p>



BIDDER

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
	<p>basic design</p> <p>viii. Checking the drawings prepared by the contractor &amp; issuing issue of working drawings in accordance with Contractors' work programs.</p> <p>ix. Review the method statement of bridge construction submitted by the contractor and provide comments or give no-objection.</p> <p>x. Reviewed fabricator shop drawings for compliance with design drawings.</p> <p>xi. Controls manufacturer's shop drawings and connection calculation notes and details.</p> <p>xii. Supervises/Approves steel structure drawings issued by designers .</p> <p>xiii. Assigning and supervising the Welding Engineer and Steel Inspector on a daily basis so that all contractor activities are adequately covered.</p> <p>xiv. Approval erection sequence methodology which depict the safe erection of the steel structure.</p>
<b>Quality Control Engineer</b>	<p>i. Overall monitoring the construction activities in respect of the quality of the work.</p> <p>ii. Prepare QA/QC plan and Method Statement</p> <p>iii. Quality assurance and control to ensure conformance to drawings and specifications.</p> <p>iv. Ensure that the construction materials conform to the quality norms specified in the Codes / specifications in the bid documents.</p> <p>v. Ensure that field / laboratory tests regarding the quality control are carried out as per the norms / procedures specified in codes / specifications in the bid documents.</p> <p>vi. Check the results of the field / laboratory tests regarding th quality control and take remedial actions in case of any non-conformity.</p> <p>vii. Prepare and submit the periodic Quality Control Reports to MMRDA.</p> <p>viii. Conduct workshops for the site Engineers / labours to update them about the Quality Assurance &amp; Quality Control procedures so as to ensure that the QA &amp; QC norms are adhered to.</p>
<b>Contract specialist</b>	<p>i. Assist the MMRDA to design, administrate and monitor all procurement activities to ensure compliance with agreed procurement frameworks.</p> <p>ii. Evaluate the claims submitted by the contractor with support from the engineers and provide a draft answers to Team Leader.</p> <p>iii. Support to the Team Leader to issue the variation order to the contractor and various certificates to the contractor.</p> <p>iv. Support MMRDA to deal with dispute discussion with the contractor's claim</p>



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
	v. Day to day correspondences in connection to contractual issues
<b>Safety Engineer</b>	<p>i. To monitor comprehensive Health and safety program which would help to avoid and reduce the accidents.</p> <p>ii. To establish the safety programmes, identification of safety hazard which would be made by contractor prior to the construction,</p> <p>iii. To carry out monthly safety audits on site during construction and operation through safety Engineer .</p> <p>iv. Ensure that the contractors provide sufficient safety devices and sign boards for own safety as well as safety of genera traffic and pedestrians through the review of the method statement and periodical site patrol.</p> <p>v. Ensure that the contractors provide sufficient safety devices to the construction Engineers, subordinate staff &amp; labour working on the site.</p> <p>vi. Ensure adherence to the safety norms prescribed in the relevant codes / specifications in the bid documents.</p>
<b>Geo-Technical/ Foundation Engineer</b>	<p>i. To decide program of site investigation .</p> <p>ii. To Check the output of the geotechnical survey and report done by the contractor.</p> <p>iii. To assist design engineer for review and assess bridge design for detailed engineering including the geotechnical data to decide the type of the foundation</p>
<b>Quantity surveyor</b>	<p>i. Ensure full and detailed permanent site records, which will include site correspondence, survey data, quality acceptance data, site diaries, measurement and certification, minutes of meetings, and records of all other contractually relevant matters.</p> <p>ii. Review and check the inspection sheets submitted by the inspectors</p> <p>iii. Review and check the interim payments and final payment claims submitted by the contractor, particularly the bill of quantities done by the contractor</p> <p>iv. Provide or review the unit price for new work items when necessary</p> <p>v. Support the Claim Specialist to evaluate the claims submitted by the contractor.</p>
<b>Transportation/ Traffic engineer</b>	<p>i. Responsible for designing site basis traffic diversion plan as per standard Planning and managing both vehicles and pedestrian in consultation with traffic department.</p> <p>ii. Implementing all the necessary Traffic Management safety measures on site.</p>



BIDDER

Page 70

MMRDA

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Major Tasks & Duties
Field Engineer	<ol style="list-style-type: none"> <li>i. Measure the day-to-day quantities at site and confirm with the foreman or site supervisor of the contractor.</li> <li>ii. Keep and maintain full and detailed measurement records, which will include quantity measurement data, site diaries and other records.</li> <li>iii. Assist the engineer's representative for managing quantity and cost.</li> <li>iv. Undertake day-to-day field contract supervision, quality control and measurements at the site.</li> <li>v. Keep full and detailed permanent site records, which will data, day work records, site diaries, measurement and other field records.</li> <li>vi. Prepare data presented in regular monthly progress reports. Provide measurement and inspection data required for interim payments.</li> <li>vii. Provide the contractors with all necessary survey data and reference for setting out the works.</li> </ol>

1.15. **Duties and responsibilities of the supporting technical staff**

1.15.1. **General Responsibilities :** The supporting technical staff

1. Shall be responsible for provide valued Engineering services that will result in economical and quality end product.
2. Shall be responsible for provide valued Engineering services that will result in economical and quality end product.
3. Shall Study all designs and drawings, Contract Agreement, Specifications etc. and ensure implementation at site including its proof checking.
4. Shall be responsible for establishing and preservation of intermediate TBM with respect to GTS TBM in coordination with contractor.
5. Shall be responsible for setting out Geometrical vertical /horizontal curves during execution with reference to data of total station.
6. Shall be responsible for proof checking of all designs of structures and issue of working drawings for road and bridges within reasonable time frame, so that there shall not be in achieving the mile stones as mentioned in the tender documents of the work. He is also responsible for obtaining designs from the design consultants appointed by the contractor.
7. Shall be responsible for necessary changes if any if required in Geometrical vertical /horizontal alignment during execution and issue of modified working drawings along with L sections and Cross sections at every 10 M C/C along the length and 2 meter C/C across the width with due approval of Engineer -In-charge
8. Shall be responsible for Shifting or removal permanent / semi permanent structures, trees, telephone lines, Electric line ,transformers or any other utilities identified during execution of work in co-ordination with respective department /Utility holders to clear the work front
9. Shall be responsible for changes or modification in the road crust design if required as per site situation or constraint and issue of Cross section at



BIDDER

Page 71

MMRDA

*Beenu*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

- every 10 M C/C along the length and 2 meter C/C across the width with due approval of Engineer –In-charge
10. Shall be responsible for ascertaining the quality and quantity of all construction material of the quarries as identified by the contractor during execution of work and approval of the same
  11. Shall be responsible for foundation passing , modification in design of Minor / Major Bridge/ Slab culverts and CD works if any, as per available foundation strata, assessment of safe bearing capacity of foundation strata, and issue of working drawings.
  12. Shall be responsible for work execution methodology including diversion of road as well as diversion of traffic , stage wise construction as per final Geometrical horizontal , vertical alignment and as per final pavement design. The Consultant shall evaluate alternative construction methods to reduce the construction and minimize disturbance to the existing traffic flow during construction. Consultant should adopt methodology with prior approval of Engineer –In-charge.
  13. Will ensure deployment of requisite number of qualified and experienced Engineers at site on full time basis to supervise the day to day works and also shall be responsible for monitoring the progress of work as per approved program, construction procedures, practices, to ensure quality in day to day work as per drawing, specifications and standards.
  14. Shall be responsible for approval to the Request for Information (RFI) submitted by the contractor in the day to day working and maintaining the record of RFI.
  15. Shall be responsible for overall monitoring of the construction activities and should be available at site everyday (including nights. if the contractor carries out work in shifts to achieve the project completion schedule) for supervision and coordination of site work with the MMRDA and Contractors.
  16. Shall be responsible to maintain the execution at site as per the drawing.
  17. Shall physically verify all dimensions of work on site and ensure that they are as per drawings. Discrepancies shall be corrected immediately, modification required if any shall done in consultation with bridge designer only.
  18. Shall be responsible to maintain the records of day-to-day works
  19. Shall be responsible for checking the all intermediate final levels of crust provided, maintaining level book, insuring thickness of crust by taking trial pits, steel reinforcement, centering, shuttering and scaffolding etc.
  20. Shall be responsible to supervise the day to day works related to Bridge & construction of approaches like earth work, GSB work , WMM work , Bituminous work ,PCC, RCC, and all other items as stipulated contract documents of the contractor.



BIDDER

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

21. Shall be responsible to maintain the day to day material inventory for all items, consumption of material for the work at site and shall ensure that the material used in work is as per the theoretical requirement.
22. Shall preserve field books and measurement books supplied by MMRDA in safe custody and shall return the same to MMRDA after completion of project or as advised by Engineer in Charge.
23. Shall maintain cement register, steel register, daily labour register, asphalt consumption register drawing register, hindrance register, register for payment of advances and recoveries, register for reconciliation of materials to facilitate recoveries, register for movement of field books / measurement books, site instructions book, diary of work, Quality Assurance (QA) records, etc. and any other register as advised and shall return all registers referred above after completion of the project or as advised by MMRDA.
24. Shall ensure that all instructions to the contractors are issued in writing. Work order book shall be maintained on the site in prescribed form approved by the MMRDA. PMCS shall maintain the record of all such instructions for verification at any time. It will be PMCS responsibility to regularize all verbal instructions given by competent authority in unavoidable circumstances by obtaining written confirmations / ratifications.
25. Shall advise MMRDA with regard to extra items/claims / disputes / arbitration cases and excess- saving in tender items between MMRDA and the Contractors, if any and assist MMRDA in case of any dispute till the cases are resolved either by mutual negotiation or through arbitration or court, as the case may be.
26. Shall be responsible for proof checking of the all designs for the projects.

**1.15.2. Quality Control Responsibilities**

1. Shall prepare quality assurance manual for contractor which including pre, during, post execution check lists, test frequency chart with acceptance criteria as per approved tender documents.
2. Submission of Detailed schedules and technical formats for inspection and testing of materials, indicating the inspections/test procedures and applicable acceptance limits at works/test in house and site for materials and equipment well in advance and got approved from the employer. Monitor the quality of the work and control the quality as per specification, relevant codes and as per sound Engineering practices.
3. Shall maintain the registers for mandatory tests to be conducted for all materials before incorporation in the work as per requirement of the Vigilance and Quality Control cell of the MMRDA.
4. Shall inspect and approve the materials at site as per specifications before they are used in work.
5. Shall be responsible for obtaining good workmanship with respect to lines, levels, finish, etc. Shall check all centerlines, dimensions, levels and plumb at



BIDDER

*Handwritten signature*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

- all stages of work with reference to working drawings and shall ensure correct dimensions/thickness of all elements of the bridge works.
6. Shall ensure that work proceeds as per tender conditions and specifications. All material brought to site shall be of approved quality and make, rejected material is removed from site and work executed is of high standard, good workmanship and of desired quality. PMCS shall also submit weekly reports of inventory of materials .Any compromise of quality in materials or workmanship shall be the responsibility of PMC & liquidated damages as deemed fit in lieu of this will be recovered from PMC
  7. PMCS will be required to submit reports concerning quality standard and progress of the project in the form as prescribed by the MMRDA time to time.
  8. If the work done by the contractor is found to not satisfactory, PMCS can instruct the contractor to suspend the work till rectification of work.
  9. Shall be responsible for ascertaining the quality and quantity of all construction material of the quarries as identified by the contractor during execution of work and approval of the same.
  10. Shall be responsible for preparation and approval for Job mix formulas of flexible pavement ,rigid pavement ,various grades of concrete for structures
  11. Shall be responsible for full acquaintance with tender specifications , respective IS /IRC codes , MOR T& H,PWD red book etc and amendment if any and implanting the same during execution of work
  12. PMC should exclusively provide supervisory staff at Hot Mix plant and RMC plant of Contractor to ensure highest quality during execution of work.
  13. PMC shall insure that all in house laboratory tests and test must be carried out in the presence of his representative including collection of the samples for in house /outside laboratory.

**1.15.3. Billing Responsibilities for Interim and final payment**

1. The supervision consultant shall prepare and submit Engineer in-charge for verification, passing and payment of interim and final payment to the contractor. Interim payments shall be based on interim payment certificates processed by the supervision consultant following payment applications submitted by the contractors. The measurement books shall be in a form compatible with the output from the CADD system. Whenever measurements are to be made, the supervision consultants' resident engineers shall inform the contractors in advance. The employer's representative shall verify the measurements at any stage and process for passing and payment.
2. The Resident Engineer of supervision consultant shall be 100 % responsible for Checking of all the measurements recorded in the bill prepared by contractor at site with respect to approved drawings/specifications and to certify the accuracy of the same. If in case, it is necessary to take



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

- measurements at site and record and finalize the bills, the PMCS shall also do so to make timely payment for the works done.
3. The PMCS shall certify the accuracy of the bill within week from the date of receipt of bill from
  4. The PMC shall take day to day measurements jointly & make record entry in CADD format with contractor's representative for all bridge /road components, for bills / measurements, record them in measurement books (MBs) supplied by MMRDA and obtain contractors Signature in token of acceptance & Prepare Bills. Care shall be taken to take timely measurement of such items which may get embedded or hidden and not susceptible for measurement at a later date, which cannot be recorded in future shall be recorded before covering up the same.
  5. If contractor's representative fails to attend the joint measurements as fixed in writing or Contractor fails to countersign even after giving reasonable notice to the contractor, PMCS should take measurements and prepare bills and submit for payment.
  6. RA Bills shall be submitted only after the verification of the work executed as per stipulation in the specifications; drawings and Bill of Quantities prescribed in the contract agreement are in order.
  7. In the matter of approving such bills, the PMCS shall conform adherence to the rules and instructions issued by the MMRDA, guarantee and correctness of all such certificates and shall hold themselves responsible for the correctness of all bills and certificates issued, scrutinized or checked by them, as to the quality of the work concerned as well as the quantities of various items of works. Before certifying any bill PMCS shall ensure that the work being certified is in general in accordance with the designs.
  8. PMC shall check the quantities recorded for various items and keep watch on variations in the tender items and the reasons thereof. PMCS shall account for all variations in tender quantities with respect to execution drawings and submit a report. PMCS shall assess impact of excessive quantities on the cost of the project and wherever felt necessary by the MMRDA, prepare a Running Summary of Cost for approval of MMRDA. PMCS shall obtain approval from MMRDA, if the quantities put to tender are likely to exceed as per clause 38 before giving green signal to contractor to go ahead with the work
  9. Shall prepare "Running Summary of Cost" for the project once in six months or as desired by the MMRDA and ensure that there will be no cost overrun. PMCS shall help MMRDA in preparing a note of revised sanction for the project if required during execution of the project.
  10. PMC shall ensure that following are not recommended for payment in interim bills / final bills.
    - i. Extra items / deviated / variation items not approved by MMRDA.
    - ii. Payments towards variation.



BIDDER

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

- iii. Payments beyond financial sanction and
  - iv. Payment for the work done in extended without sanction for the extension of time limit by the competent authority.
  11. Prepare necessary snag list after virtual completion of work.
  12. On completion of work, the PMCS shall have the responsibility to finalize the final bills for the work as per actual execution.
  13. The PMCS should settle the Final Bill along with as build drawings within three months after completion of Project.
  14. PMC shall ensure that contractors have taken requisite "All Risk Insurance Policies" to cover workman under Workman Compensation Act, loss /damage caused by natural calamities / accident / accidental collapse of partially completed work, materials and plant at site and for third party claims for injury / damages. PMCS shall ensure that all such policies remain in force throughout the execution of project and insurance policies shall also cover the maintenance of the work as per tender conditions.
  15. Consultant is solely responsible for quantities of works proposed in the bill and quality of the work as specified in the tender document. Consultant should submit certification this regard along with bills.
- 1.15.4. Extra works /Extra Items**
1. Shall suggest modification, if any, due to site conditions and advice with reasonable justification of cost variations on account of resultant extra items and excess supported with proper analysis.
  2. Shall suggest modification, if any, due to site conditions and advice with reasonable justification of cost variations on account of resultant extra items and excess supported with proper analysis.
  3. shall ensure that extra/variation items are not executed unless approved by MMRDA and rates are finalized. A register for extra/substituted items shall be maintained by PMCS.
- 1.15.5. Progress of the Project.**
1. Shall be responsible for monitoring the progress as per mile stones prescribed in the tender documents.
  2. Shall be responsible for monitoring the physical as well as financial progress of work with help of MIS, BAR chart, S curve, CPM/PERT or any modern technique as suggested by the MMRDA and monthly submission of the same on the last date of calendar month to MMRDA failing which consultant shall be liable for penalty of Rs. 1000/- per event per week.
  3. Shall be responsible for maintain documentary evidence for delay in achieving mile stones prescribed in the tender.
  4. Shall be responsible for completion of project as per scheduled time stipulated in agreement with the contractors.
  5. Shall submit physical and financial progress reports once in every month or as desired by MMRDA in standard pro forma approved by MMRDA.



BIDDER

*beul*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

6. Shall anticipate time over runs which are beyond the control of the contractor, well before completion date and submit the proposal for extensions of time limit well in advance. In support of the proposal PMC shall maintain day to day record of front made available to the contractor achievement made in the available front. Similarly he should maintain a record of work held, its duration and reasons thereof. PMCS shall submit contractor's request for extension of time along with his recommendations well within time. Bill for work done in extended time, yet to be sanctioned, shall not be recommended.
7. Shall responsible to forecast issues ahead in time that would delay the project and caution for appropriate action. PMC shall also bring to the notice of the MMRDA any slippage in the progress of work as per schedule and any likely slippage due to constraints like short supply of construction materials, labour problems and non availability of drawings.etc.
8. Shall responsible to provide valued Engineering service that will result in economical and Quality end product in the shortest durations.

**1.15.6. Safety Arrangement**

1. Shall ensure safety of the traffic, structure, by taking all necessary precautions and shall avoid such other factors which will endanger the safety of structure during/after construction.
2. shall ensure that safety of personnel working at site/inspecting the site by taking precautions by putting sufficient barricades, night lamps near trenches, pits, and such other places and to insist on compliance of safety code such as use of helmets, gum boots etc on work site.

**1.15.7. Labour Laws**

Shall ensure that contractors have complied with registration under Contract Labour (Regulation and Abolition) Act, 1970 and Central Rules, 1971 & abide by laws pertaining to labour including payment as per Minimum Wages Act and any other Act or enactment relating thereto & rules framed there under from time to time. The PMCS shall ensure compliance by the contractors of all labour laws & relevant Statutory Acts including Labour License, Minimum Wages Act, etc.

**1.15.8. Environmental Issues**

1. Shall ensure that, contractor has submitted Environmental Management Plan.
2. shall ensure that, contractor has taken all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation
3. Shall ensure that contractor has followed all guidelines given in Environmental Management Plan (appended in Volume III: Technical Specifications) prepared for this project specifically shall be followed during construction.



BIDDER

Page 77

MMRDA

*beef*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

4. The PMC shall ensure that any other Environmental related clearance / permission is required for the project, the same shall be obtained by the Contractor. The PMC shall point out such cases to the Employer and assist the Employer & Contractor to obtain the relevant clearance / permission.

**1.15.9. Site Co-ordination**

1. Shall keep a track of permissions required from local authorities and get revalidated whenever necessary.
2. Shall attend site meetings / meetings in MMRDA and discuss site conditions, bottlenecks faced likely hindrances, time over runs, cost overruns and any other important matter along with solutions of the same.
3. To co-ordinate between the MMRDA and Contractors in all matters relating to work.
4. To arrange issue of preliminary completion report, defects liability completion report, final work completion report
5. Any other construction management task not specifically mentioned but relevant to the realization of the project.
6. Shall be responsible for co-ordination with all agencies working at site, liaison with local authorities /Government agencies/ other allied departments including utility providers for proper permissions to clear the work front in time.
7. Shall co-ordinate with the utilizes providers to shift, if it is obstructing work site
8. Shall prepare detailed proposal of utilizes in the prescribed form as specified by concern the Dept for shifting and submit, pursue, attend all joint inspections if asked by the concern utility provider.

**1.15.10. Defects Liability**

1. Shall prepare maintenance manual for Defects Liability
2. Shall carry out joint inspections of the work at regular intervals (**monthly**) by the Resident Engineer along with the Contractor's representatives
3. If contractor's fails to attend the Joint inspections as fixed in writing ,Resident Engineer shall carry out visit independently every monthly to observe the defects and submit reports to employer with a copy to contractor . If Contractor fails to countersign the defects noticed even after giving reasonable notice to the contractor, PMCS should initiate suitable action as per Contract.
4. After the inspections the consultants shall submit a report (in 5 copies) detailing the defects noticed and the remedial measures to be taken by the Contractor. The consultants shall suggest and supervise the remedial measures, if any, require to be carried out by the contractors during defects liability and submit final rectification report to the MMRDA.

**1.15.11. Traffic Diversion**

The consultant Shall prepare the traffic diversion plan & presentation considering the traffic pattern in the near vicinity of the project area in



BIDDER

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

consultation with the Traffic Police and local authority and submit the same to MMRDA for taking approval from the Traffic Police.

1.15.12. **Utilities:**

The Consultant shall prepare plans, which show the location of existing underground and above ground public utilities in discussion with Contractor. These plans shall show the works proposed for diversion or replacement under the contract. To obtain data and to prepare the plans for diversion of existing utilities or new works, the Consultants shall consult with utility owners / stake holders and other agencies in the affected area, consult records and visually survey the site. It is expected that not all utility lines may be well recorded and hence to ensure that the work proceeds smoothly. The Consultant shall prepare a detailed report identifying and covering various utilities, which are likely to be installed in the near future so as to enable MMRDA to prepare a co-coordinated plan for simultaneous implementation with the road construction wherever possible.

1.15.13. **Tree Cutting:**

The consultant shall identify the trees within the proposed Right of Way (ROW) which are required to be cut/ transplanted during the construction of the project and number the same. The consultant shall identify such trees by type, height, girth etc. and its distance from the centre line of the proposed road (or centre line of the existing road) and prepare a tree/Mangroves cutting proposal for submission to Tree Authority of local competent authority/MCGM/Forest Department/collector etc. The consultant shall obtain approval for the proposal after necessary compliance to the remarks made by Tree/forest Authority. Deposit for the trees/mangroves to be cut shall be the responsibility of concerned Project Implementing Agency. Requirement of compensatory plantation in lieu of the trees to be cut shall be prepared at the initial stage following the norms and practices of MCGM Tree Authority or other agencies.

1.15.14. **Implementation Schedule:**

The Consultant shall prepare a works schedule for implementation of the project such that key dates as per contract documents and thus assist supervision of the contractor to achieve the mile stones mentioned in tender. Although final arrangements will be the responsibility of the contractor, the Consultant should prepare an initial temporary traffic diversion plan, optimum utilization of manpower and machinery in conjunction with the implementation schedule, such that the contractor may include for such works in the overall contract cost estimate.

1.15.15. The consultant shall be responsible for preparing variation orders consequent to any design changes. The construction supervision consultant will be responsible for minor design changes, subject to the employer's prior approval where so required.



BIDDER

*[Handwritten Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



**1.15.16. Interim and Final Payments:**

The supervision consultant shall prepare and submit Engineer in-charge for verification, passing and payment of interim and final payment to the contractor. Interim payments shall be based on interim payment certificates processed by the supervision consultant following payment applications submitted by the contractors. The measurement books shall be in a form compatible with the output from the CADD system. Whenever measurements are to be made, the supervision consultants' resident engineers shall inform the contractors in advance. The employer's representative shall verify the measurements at any stage and process for passing and payment.

**1.15.17. Possible Additional Services:**

The consultant may be required to carry out the following additional services as and when so requested by the Employer and on terms to be negotiated. The events are:

- i) preparation of reports or additional contract documents for consideration of proposals for the carrying out of additional work;
- ii) any other specialist services by the Engineer or by other specialists as may be agreed upon.
- iii) Fees towards the additional works/services carried out by the consultants shall be paid after mutual discussions and agreement.

**1.15.18. Delay in implementation of the project after completion of Detailed Engineering :**

In case the construction period of project is likely to get delayed, the following course of action is likely depending upon the probable extent of delay.

**i) Delay of 6 months to 1 year :**

The consultants can redeploy their supervision personnel earmarked for the project. Upon commencement of the supervision period, the consultants will be allowed to substitute their key personnel, if needed, provided that the alternate personnel possess equal or better qualifications and experience than the key personnel originally proposed as per TOR.

**ii) Abnormal Delay (exceeding 1 year) :**

The contract between MMRDA and Consultant may be foreclosed. (MMRDA will make fee payable against the activities completed.) The additional payments towards the extended s or the delayed s shall be as per the Appendix - D of the contract agreement.

**1.15.19. Services during Defect Liability :**

The services to be provided by the consultants during the defects liability shall include the following:

**During the first year after completion:**



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

If contractor's fails to attend the Joint inspections as fixed in writing, Resident Engineer shall carry out visit independently every fortnight to observe the defects and submit reports to employer with a copy to contractor. If Contractor fails to countersign the defects noticed even after giving reasonable notice to the contractor, PMCS should initiate suitable action as per Contract.

After the inspections the consultants shall submit a report (in 6 copies) detailing the defects noticed and the remedial measures to be taken by the Contractor. The consultants shall suggest and supervise the remedial measures, if any, require to be carried out by the contractors during defects liability and submit final rectification report to the MMRDA.

After the inspections the consultants shall submit a report (in 6 copies) detailing the defects noticed and the remedial measures to be taken by the Contractor. The consultants shall suggest and supervise the remedial measures, if any, require to be carried out by the contractors during defects liability and submit final rectification report to the MMRDA.

1.15.20. **Reporting requirements for Period:**

The consultants shall prepare and submit the reports, as specified in Appendix B

1.15.21. **Consultants Inputs required:**

The consultants are required to make their own assessments of the manpower requirements in terms of man months for the different categories of personnel proposed to be deployed for the supervision works as envisaged in this TOR. The consultants shall address this aspect in their proposed methodology to be submitted to the Employer. Consultants are required to furnish CVs for the following key professional staff. CV's of field support staff are not required to be submitted, but the numbers and man months for such staff shall be included in the Technical Proposal and the costs in respect of these personnel are to be included in the Financial Proposal. The positions of field support staff will be evaluated only for the purpose of responsiveness and no points will be awarded for these positions.

1.16. **Key Professional Staff for Supervision Period**

K-1.	Team Leader
K-2.	Resident Engineer
K-3.	Structural Engineer PC
K-4.	Structural Engineer Steel
K-5.	Quality Control Engineer
K-6.	Contract specialist
K-7.	Safety Engineer
K-8.	Geo-Technical/Foundation Engineer

1.17. **Field Support Staff for Supervision period**



BIDDER

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**(Technical & Non-Technical)**

- SS-1. Quantity surveyor
- SS-2. Transportation/ Traffic Engineer
- SS-3. Jr. Quantity surveyor
- SS-4. Jr. Quality Control Engineer
- SS-5. Surveyor
- SS-6. Lab technician
- SS-7. Field Engineer
- SS-8. Utility Engineer
- SS-9. Expert in social development (R&R)

Any deficiencies in qualification or in deployment on field shall not be entertained.

**1.18. Minimum manpower deployment:**

Category-wise minimum manpower to be deployed for Supervision Period and DLP period are given in Appendix-C

**1.19. Implementation Schedule:**

The work will be implemented within a time bound schedule up to original work contract plus approved extension if any .The implementation schedules (indicative only) for the work shall be as follows:

<b>Supervision Period activity</b>	36 Months plus DLP
------------------------------------	--------------------

- 1.20. The site supervision team would be mobilized on the date of actual commencement of works by the contractors with prior approval of Chief Engineer MMRDA. In addition to the above the assignment also includes services during the defects liability as mentioned in contract agreement of work execution. The Consultant has to ensure presence of Residential Engineer towards the end of Defects liability for preparation of Final Report and contract closure. During the Defects Liability, the Residential Engineer will continue on a part time basis with the supervision team members if required, would be mobilized on an as required basis.
- 1.21. Requirement of technical support staff would include structural Engineers, Supervisors, and Technicians etc. as felt necessary for providing services mentioned in TOR. The Supervision Consultant may propose the various categories of technical support staff and the corresponding person's month requirements. The Supervision Consultant should indicate in his technical proposal the qualification and experienced level of his proposed candidate for each category of technical support staff.
- 1.22. After award of the contract the Employer expects all the proposed key personnel to be available during implementation of the contract. The Employer will not consider substitutions during contract implementation except, under exceptional circumstances up to a maximum of one third of the key personnel. In case of replacements the Supervision Consultant will ensure that there is a reasonable overlap between the staff to be replaced and the replacement. The replacement should be strictly with the acceptance of MMRDA.



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**1.23. Accommodation, Laboratories and Vehicles :**

The supervision consultant will be responsible for making his own arrangement for all his accommodation on rental basis (including the field office of the PMC and his Site Staff, including furniture, equipment and maintenance thereof) near the site and vehicles for transportation of PMC staff/field staff etc. (including crew, maintenance and repairs thereof). Accommodation as mentioned above shall have uninterrupted power and water supply. No separate payment will be made on this account. Under any circumstances PMC shall not avail this facility from the contractor

**1.24. Co-ordination and Consultation:**

The consultant will be required to liaise and co-ordinate with all agencies affected by the proposed works. In particular, the consultant is required to co-ordinate design standards and specifications with other agencies or consultant engaged in the final engineering for other sections/packages of road network improvements under this project. A separate study for preparation and implementation of Resettlement Action Plan (RAP) and Environmental Management Plan (EMP) is being carried out for all the packages. The Consultants will closely co-ordinate with RAP/EMP consultants for R&R related issues as and when required.

**1.25. Outputs:**

The various outputs required from the work have been stated in the descriptions of the Tasks (see below).

	Activity / Report	Copies	Duration in months after commencement of study
1	Monthly Progress Report	3	Monthly
2	Monthly Information System (MIS)	3	Monthly
3	S curve	3	Monthly
4	Quarterly Progress Reports	3	Every Quarter
5	Project Implementation completion report	5	On completion of the project
6	Defect Liability	3	Monthly in DLP period.

**Additional copies of Reports:**

The consultants shall submit additional copies of the above mentioned reports as required by the employer without any extra cost to the Employer.

**1.26. Duration of the work:**

It is estimated that the duration of the PMC for the work will be up to the end of construction and the defect liability period.

**1.27. MMRDA Reviews:**

MMRDA will make reviews of the progress of the work but there are a number of key outputs which will condition the continuing work. The consultant will also produce working papers on important issues as required by the employer. The MMRDA will



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

review consultant's reports as given in para. 1.25 above and also working papers. Additionally, MMRDA require and will review progress reports.

**1.28. Project Co-ordination:**

The Chief Engineer, Engineering Division, MMRDA will function as principal coordinator to oversee the project and provide a principal point of contact with the consultant on behalf of the employers. It is envisaged that the study team will operate principally from office in Mumbai. The consultant will provide all facilities and equipment necessary for successful completion of the project. All data collected during the project, equipment (including computers) specifically purchased for the project by the consultant along with the user manuals, will become the property of the employer.

**1.29. Technical Advisory Committee:**

The Employer may establish a Technical Advisory Committee (TAC) to guide the project. The role of this Committee will be to review the consultant's findings and provide advice to the team on technical matters. It is expected that the TAC will meet every month. Consultant will submit all reports for review for suggestions by TAC.

**1.30. Qualification and experience requirement for key professional Staff**

Position	Tender Condition		
	Minimum Qualification upper age limit	& Minimum Overall Experience	Specific Experience of Similar Nature
<b>Key Professionals</b>			
Team Leader	Graduation in Civil Engineering Upper age limit 65 years	20 years	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL).  Experience in planning & execution/supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL.  Experience in planning & execution/supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span as TL.
Resident Engineer	Graduation in Civil Engineering Upper age limit 65 years	20 Years	Out of 20 years' experience, 5 year experience as a Resident Engineer.  Minimum 5 years' experience of planning & execution/ supervision of one Elevated metro viaduct/ 2 lane flyover in urban area.  Experience in planning & execution /supervision of one completed flyover/Metro



BIDDER

Page 84

MMRDA

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Tender Condition		Specific Experience of Similar Nature
	Minimum Qualification & upper age limit	Minimum Overall Experience	
			having minimum 1500 meter Viaduct length in urban area.  Experience in planning & execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span.
Structural design Engineer PC	Graduation in Civil Engineering with post graduate degree in Structural Engineering Upper age limit 70 years	20 year	Out of 20 years' experience, 10 years' experience as a Structural design Engineer.  Having experience in designing/ Proof checking of pre-stressed Elevated metro/ min 2 lane flyover/ ROB/ Major Bridge projects having precast segmental work at least 1500 meter length in urban area.
Structural design Engineer Steel	Graduation in Civil Engineering with post graduate degree in Structural Engineering Upper age limit 70 years	20 year	Out of 20 years' experience, 10 years' experience as a Structural design Engineer.  Experience of design/ Proof checking of Steel superstructure of Elevated metro viaduct / 2 lane flyover/ ROB/ Major Bridge having steel superstructure viaduct/ ROB of at least 40 meter span.
Quality Control /Quality Assurance Engineer	Graduation in Civil Engineering Upper age limit 65 years	15 year	Out of 15 year experience, minimum 5 years' experience as a Quality Control /Quality Assurance Engineer.  Experience of at least 1 completed project of Elevated metro / 2 lane flyover /Bridge costing not less than 100 Crore as a Quality Control / Quality Assurance Engineer
Contract specialist	Graduation in Civil Engineering Upper age limit 70 years	20 year	Out of 20 year experience minimum 10 years' experience as Contract Engineer / Contract Specialist of project.  Experience of at least 1 completed project of elevated metro /Monorail viaduct /flyover/ROB costing not less than 300 Crore as a Contract Engineer / Contract Specialist



BIDDER

Page 85

MMRDA

*deed*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Tender Condition		
	Minimum Qualification & upper age limit	Minimum Overall Experience	Specific Experience of Similar Nature
Safety Engineer	Graduation in Civil Engineering OR Diploma in Civil/Safety Upper age limit 65 years	15 Year	Minimum 5 year experience in Elevated metro viaduct/ 2 lane flyover in urban area as safety Engineer
Geo-Technical/ Foundation Engineer	BE civil Upper age limit 65 years	15 Year	Minimum 10 years in Elevated metro/ 2 lane flyover in urban area as geo-technical engineer
<b>Support Staff</b>			
ss-1 Quantity surveyor	Graduation in Civil Engineering Upper age limit 65 years	15 Years	Minimum 10 years of experience in Quantity survey and should have worked on flyover project in urban area.
SS-2 Transportation/Traffic engineer	B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering Upper age limit 65 years	15 Year	Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.
SS-3 Jr. quantity Surveyor	BE Civil /DCE Upper age limit 65 years	10 Years	Min 2 years' experience as a Jr quantity Surveyor flyover / bridge project in urban area.
SS-4 Jr. Quality control Engineer	BE Civil /DCE Upper age limit 65 years	10 Years	Min 2 years' experience as a Jr Quality control Engineer flyover / bridge project in urban area.



BIDDER

Page 86

MMRDA

*oleus*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Position	Tender Condition		
	Minimum Qualification & upper age limit	Minimum Overall Experience	Specific Experience of Similar Nature
r			
SS-5 Surveyor	BE Civil /DCE  Upper age limit 65 years	10  Years	Min 2 years' experience as Surveyor in flyover / bridge project in urban area.
SS-6 Lab technician	BE Civil /DCE  Upper age limit 65 years	5 Years	Min 2 years' experience as Lab technician on flyover / bridge project in urban area.
SS-7 Field Engineer	DCE/ B.E. Civil  Upper age limit 65 years	5  Year	Min 2 years' experience as Field Engineer on flyover / bridge project in urban area.
SS-8 Utility Engineer	BE Civil  Upper age limit 65 years	5 years	Min 2 year experience as Utility Engineer on flyover / bridge project in urban area.
SS-9 Expert in social development (R&R)	BE Civil	5 years	Min 2 year experience of R& R for urban road/flyover project in urban area.

Any other support staff deployed by consultant shall be minimum graduate and shall be at the cost of consultant.



BIDDER

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



---

## **Appendix B: Reporting Requirements**

**Appendix B**  
**Reporting requirements**

**Reports**

**1. Monthly information System (MIS)**

PMC shall submit MIS in approved format before last week of every month. Non-submission of MIS before end of second this will attract penalty as specified.

**2. Monthly Progress Reports:**

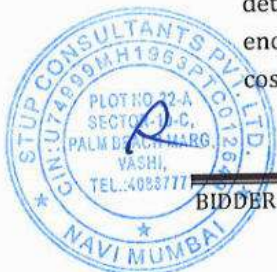
The PM shall, by no later than the eighth working day after the end of each month, prepare a brief progress report summarizing the work undertaken for the preceding month along with **progress photographs**. The report will outline any problems encountered (administrative, technical or financial) and give recommendations on how such problems may be resolved, Brief work progress summaries will be included for ongoing road and bridge works, outlining problems encountered and proposing solutions. The reports shall also record the payment status of all contracts, all claims for costs or time extensions submitted by the contractors, and any actions required of the client and/ or other agencies to facilitate timely works implementation, the reports shall also be submitted in electronic format in addition to 6 nos. hard copies. Non submission of **Monthly Progress Reports** before end of first week of each month will attract as specified

The monthly progress reports shall also include

- Organization chart of contractor as well as PMC staff working on this project
- Deployment of Lab our and machinery chart
- Photographs of work pre , post and during execution
- Physical and financial progress against the approved Bar Chart
- MIS(Management Information system)
- Progress in S Curve
- Minutes of meeting if any
- Inspection and compliance report
- List of Extra item if any cropped during the month
- Abstract of quality control test as per Quality assurance plan giving details of internal and external test with comments

**3. Quarterly Progress Reports:**

The PMC shall, by no later than the eight working after the end of each quarter, prepare a comprehensive report summarizing all activities under the services of the end of each quarter, and at other times when considered warranted by either the Engineer of the client due to delay of the construction works or due to the occurrence of technical or contractual difficulties, Such reports shall summaries (i) the activities of the Engineer (ii) the progress of the contracts, (iii) all contract variations, (iv) the status of contractor's claims, if any, (v) details and brief descriptions of any technical and contractual p0blem, being encountered, (vi) details of the contracts as a whole comprising costs incurred, forecast cost and the financial plan (by Bank and MMRDA), (vii) any other relevant information for



BIDDER

Page 88

MMRDA

*beed*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

each of the ongoing contracts. The reports shall also be submitted in electronic format in addition to the 6 nos. hard copies.

4. **Engineering Reports:**

The Engineer shall prepare specific report, required in the event of particular or unforeseen circumstances. Such reports shall be prepared on an 'ad-hoc' basis as requested by the Engineer and shall include on analysis of the engineering matter in question and shall propose possible solutions thereto.

5. **Section/Substantial Completion Reports and Project Final Report.**

The Engineer shall prepare a comprehensive sectional/substantial completion report for each of the construction contracts, which reaches sectional/ substantial completion of the works by the contractors and before taking over by the client. The reports shall summaries the method of construction the construction supervision performed, problems encountered, solutions undertaken, and recommendations for future projects of a similar nature. The Engineer shall summaries and consolidates in a single Team Final Report the key information from the individual sectional/substantial completion reports.

6. **As built drawings:**

The consultant shall check the 'As built' drawings submitted by the contractor and approve the same. A CD containing approved, as built, drawings shall be submitted to MMRDA for records.

---



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

---

**Appendix C: Key designations and minimum supporting staff -  
consultants professional Staff**

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

**Appendix-C**

Refer Clause 4.1 of GCC)

Table -1

**MINIMUM MANPOWER FOR PROOF CHECKING AND DURING CONSTRUCTION PERIOD**

r. No.	Key Personnel	No of persons	No. of Man Months per person per month
<b>A</b>	<b>Minimum Key professional staff</b>		
K-1.	Team Leader	1	1.00
K-2.	Resident Engineer	1	1.00
K-3.	Structural Engineer PC	1	0.50
K-4.	Structural Engineer Steel	1	0.50
K-5.	Quality Control Engineer	1	1.00
K-6.	Contract specialist	1	0.50
K-7.	Safety Engineer	1	1.00
K-8.	Geo Technical/Foundation Engineer	1	0.50
<b>B</b>	<b>Support staff</b>		
SS-1.	Quantity surveyor	1	1.00
SS-2.	Transportation/ Traffic Engineer	1	1.00
SS-3.	Jr. Quantity surveyor	1	1.00
SS-4.	Jr. Quality Control Engineer	1	1.00
SS-5.	Surveyor	1	1.00
SS-6.	Lab technician	2	1.00
SS-7.	Field Engineer	4	1.00
SS-8.	Utility Engineer	1	1.00
ss-9.	Expert in social development (R&R)	1	1.0

**MINIMUM KEY MANPOWER FOR DLP**

Sr. No.	Key Personnel	No of persons	No. of Man days
1	Resident Engineer	1.00	60
2	Contract specialist	1.00	60
3	Field Engineer	1.00	60

**Notes:**

- 1) The various personnel listed above shall be mobilized by consultant in accordance with construction program accepted by MMRDA. The deployment schedule of each key person shall be as approved by the Employer.
- 2) Key personnel shall be mobilized for duration necessary for their adequate input towards completion of the tasks assigned to them



BIDDER

*Chief Engineer*  
Engineering Division  
M.M.R.D.

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

- 3) PMC will be penalized, if qualified Engineer is found not be performing / not present at site /office. A Penalty of Rs. 5000/- per day per person will be recovered from consultant's bill.
- 4) The deployment of the all positions to be mobilized shall be on the basis of the approved deployment schedule to suite the actual requirement as per the approved construction program of the project.
- 5) The consultant may propose and deploy additional manpower/staff necessary for timely execution during the construction period of project with no extra cost to the employer.



BIDDER

  
**Chief Engineer**  
Engineering Division  
M M R D A

---

**Curriculum Vitae of the proposed Key Manpower**

ANNEXURE I  
DETAILS OF KEY MANPOWER


Sr. No.	Key Personnel	No. of Persons	Minimum Man-months per Person per month	Name of Person	Qualification	Total Experience	Specific Experience of Similar Nature
<b>A</b>	<b>Minimum Key professional staff</b>						
	To be named at the time of bidding						
K-1	Team Leader	1	1.00	P K Jain	<ul style="list-style-type: none"> <li>Bachelor of Civil Engineering, Bangalore University, 1982</li> <li>M.E. (Construction Management); SPPU Pune; 2017</li> <li>B.E (Civil), Shivaji University Kolhapur, 1993</li> <li>PG Diploma in Business Management; Shivaji University; 1996</li> </ul>	37 Years	37 Years
K-2	Resident Engineer	1	1.00	Rajesh Jadhav	<ul style="list-style-type: none"> <li>Master of Engineering (Structural Engineering) in 2001 from Pune University</li> <li>Bachelor of Engineering (Civil) in 1998 from Walchand college of Engineering, Sangli</li> </ul>	27 Years	27 Years
K-3	Structural Engineer PC	1	0.50	Amit Ralkar	<ul style="list-style-type: none"> <li>M. Tech (Structures), Vevesvaraya National Institute of Technology - 2003</li> <li>B.E. (Civil) - Nagpur University - 1998</li> </ul>	21 Years	21 Years
K-4	Structural Engineer Steel	1	0.50	Devdatta C. Athavale	<ul style="list-style-type: none"> <li>Bachelor of Engineering (Civil) 1991 from Pune University</li> </ul>	21 Years	21 Years
K-5	Quality Control Engineer	1	1.00	H T Wagh	<ul style="list-style-type: none"> <li>B.E (Civil), University of Pune, 1989</li> </ul>	27 Years	27 Years
K-6	Contract Specialist	1	0.50	A S Bokil	<ul style="list-style-type: none"> <li>Diploma in Civil and Rural Engineering (DCRE) in 1984</li> <li>Graduate in Civil Engineering from J.R.N Rajasthan Vidyapeeth University 2015</li> </ul>	28 Years	28 Years
K-7	Safety Engineer	1	1.00	S N Pote	<ul style="list-style-type: none"> <li>Ph. D. (Geotech. Engineering), Mumbai</li> </ul>	35 Years	35 Years
K-8	Geo-Technical / Foundation Engineer	1	0.50	Sandeep Bhosle	<ul style="list-style-type: none"> <li>M. Tech. (Geotechnical Engineering) IIT Bombay in Jan 1996</li> <li>B.E. in Civil Engineering (VJTI, Bombay University) in May 1994</li> </ul>	23 Years	23 Years
<b>B</b>	<b>Support Staff</b>						
1	Transportation / Traffic Engineer	1	1.00	Jose Thomas	<ul style="list-style-type: none"> <li>M. Tech - Transportation Engineering from Calicut University in 1990</li> <li>B. Tech (Civil) from Kerala University in 1986</li> </ul>	30 Years	30 Years



*Signature*  
Civil Engineer  
Engineering Division  
M.M.R.D.A.



**Curriculum Vitae (CV) for Proposed Key Staff**

1.	Proposed Position	:	K-1: Team Leader	
2.	Name of Staff	:	P K Jain	
3.	Date of Birth	:	15.12.1957	
4.	Nationality	:	Indian	
5.	Education Qualification	:	• Bachelor of Civil Engineering, Bangalore University, 1982	
	Contact Address with Phone and mobile numbers	:	C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-4088 7777	
6.	Employment Record	:		
	From May 2012	:	May 1992 – Till date	
	Employer	:	STUP Consultants P. Ltd.	
	Position held	:	Team Leader	
	From April 2012	:	August 1983 – April 1992	
	Employer	:	Gammon India Ltd.	
	Position held	:	Senior Bridge Engineer	
List of projects on which the Personnel has worked:				

**Project Name:** Project management Consultancy Services for Proof checking, construction supervision, Quality Assurance, Quality Control & Quality Audit for the work of "Construction of 6 Lane two way flyover crossing 7 Tombs Junction (Shaikpet), Film Nagar road Junction, O.U. Colony Junction and Whisper Valley Junction under Engineering Procurement and Construction (EPC)/Turnkey - Basis

**Period:** August 2018 - On going

**Client:** Greater Hyderabad Municipal Corporation, Hyderabad

**Position Held:** Project Co-ordinator

**Project Description:** The project work comprises of construction of Construction of 6 Lane two way flyover crossing 7 Tombs Junction (Shaikpet), Film Nagar road Junction, O.U. Colony Junction and Whisper Valley Junction. The details of the project are as under:-

Project Length: 1737.78m

Carriageway Width: 16.6 m

Bridge/Viaduct Length: 1340 m excluding Obligatory Span Length of 280 m

Length of solid approaches: 117.78 m approx.

Design speed: 80 KMPH

Number of Piers: 53 No's. (As per Agreement)

Number of Abutments 2 No's. (As per Agreement)

Type of Foundation: Open Foundation

**Project Name:** Authority's Engineer for Construction and Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D. (Transit Oriented Development) basis on Engineering Procurement and Construction (EPC) contract mode

**Period:** January 2015 - July 2018

**Client:** Ghaziabad Development Authority

**Position Held:** Team Leader

**Project Description:** Ghaziabad Development Authority (GDA) has undertaken the Construction and



*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D.(Transit Oriented Development) basis on (EPC) contract mode. The length of the corridor is 10.300 Kms. & the estimated project cost is Rs. 916.92 Crores.

Project Length: 10.3 Km

Main Carriageway Width (Six lane): 24.5 m (2 x 11 + 2 x 0.5 + 1.5)

Elevated Viaduct Length: 9.010 Km (Pre-cast Segmental Construction)

No of Spans: 291 nos. (226 main alignment , 36 nos. at kanawani Ramps , 29 nos. at '0' Chainage Ramps)

Design Speed: 100/80 kmph

Number of Segments: 3497 nos. of (24.5 m wide)

The elevated corridor has the following span arrangements:-

- LHS & RHS: 181 x 40.48 + 2 x 46.00 + 33 x 37.86 + 3 x 27.38 + 2 x 30.00 + 1 x 32.62 + ROB – 1x 27.649 + 1 x 50.047 + 1 x 50.102 + 1 x 27.693 m
- Ramp A (At Zero Chainage): 7 x 31.300 + 3 x 31.000 + 1 x 31.008 + 1 x 31.023 + 1 x 31.173 + 1 x 31.400 + 1 x 31.639 + 1 x 30.980 m
- Ramp B (At Zero Chainage): 5 x 31.000 + 1 x 30.926 + 1 x 30.679 + 1 x 30.634 + 1 x 30.865 + 1 x 30.999 + 1 x 31.018
- Ramp A (At Kanawani): 12 x 31.00 + 6 x 20.659 + 3 x 27.00 m
- Ramp B (At Kanawani): 10 x 31.00 + 3 x 27.00 m
- ROB (At Chainage 7+600): 1 x 27.649 + 1 x 50.047 + 1 x 50.102 + 1 x 27.693 m.

Maximum Span Length: 50.102m (Steel Composite) / 46.00m (PSC)

As Team Leader, responsible for assist the employer in proper monitoring / progress of works and implementation of the maintenance programme. Scrutinizing Contractors' detailed work programme and suggesting modifications. Approve the construction maintenance, erection and operation methods of contractor, Interpretation of the Technical Specifications and Contract Documents. Regular inspection of the contractor's equipment, plant, machinery and installations. Approve materials and ensure that the quality of the works in accordance with the contractual specifications. **Also responsible for reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project Name: Consultancy Services for Detailed Engineering Design and PMC for construction of Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km.0/000 to 2/500**  
**Period: October 2009 - December 2014**

**Client: MMRDA**

**Position Held: Team Leader / Resident Engineer (Bridges)**

**Project Description:** MMRDA has undertaken the development of the Eastern Freeway which is 16.9 km long considering the present situation, future traffic and other transportation demands. Thousands of commuters travelling from South Mumbai towards Thane - Nashik and Panvel - Pune will not only be able to save on travel time but also save fuel on completion of the project. This will also help clear traffic congestion in the Island city.

The Project is divided in 3 parts -

1. Part-I: Eastern Freeway – Orange Gate on P. D'Mello road to Anik Junction (Elevated corridor)
2. Part-II: Anik-Panjarpole Link Road (APLR)
3. Part-III: Panjarpole - Ghatkopar Link Road (PGLR)

The entirely elevated Panjarpole - Ghatkopar Link Road is the third part of the Eastern Freeway Project. It starts from Panjarpole Junction on the Sion - Panvel Link Road and culminates at Chembur - Mankhurd Link Road via Tukaram Patil Marg. This link road is 3 km long, 17.2 m. Wide and will provide 2+2 lanes

<u>Salient Features of the Project</u>	<u>As per Original Scope</u>	<u>Additional Scope during the course of the Project works</u>
Length of Main carriageway	1721.0 m	335.0 m
Length of Structural Ramp	793.0 m	

*M.M.R.D.A.*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



Length of Solid Approach	<u>112.0 m (At Main Carriageway):</u> <u>516.0 m (At Ramp portions)</u>	<u>165.0 m (At Main carriageway)</u> <u>1500.0 m (At Slip Road &amp; Service road)</u>
--------------------------	--	---

The Types of Foundation for the project is 119 nos. pile foundations & 12 nos. open foundations. The type of sub structure is RCC Solid pier and Pier cap with M60 grade of concrete. The types of superstructure is Segmental construction (M60) for a length of 1510 m; T girder (M60) for a length of 981 m; & Steel composite superstructure for a length of 198 m & cast in situ integral super structure for a length of 160 m

As Team Leader / Resident Engineer (Bridges), responsible for assist the employer in proper monitoring / progress of works and implementation of the maintenance programme. Scrutinizing Contractors' detailed work programme and suggesting modifications. Approve the construction maintenance, erection and operation methods of contractor, Interpretation of the Technical Specifications and Contract Documents. Regular inspection of the contractor's equipment, plant, machinery and installations. Approve materials and ensure that the quality of the works in accordance with the contractual specifications. **Also responsible for reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project Name: Project Management services for 4-Laning of Lebad-Jaora Section of SH- 31 between Ch. 0.00 to Ch. 125 (project length: 125 kms.) on BOT Basis in the State of Madhya Pradesh**  
**Period: November 2007- September 2009**  
**Client: Essel Infraprojects / MPRDC**  
**Position Held: Resident Engineer**

**Project Description:** The Project aims at developing the existing two lane section of Lebad-Ratlam-Jaora of NH-79 (earlier known as Mhow-Neemuch Road and classified as SH-31 till 2000) from km 0+000, to Km 125+000 to four lanes divided carriageway with partially access control including strengthening of existing carriageway on BOT basis. It traverse in the northern direction through the towns of Sadalpur, Nagda, Badnawar, Satrunda, Ratlam through two districts viz. Dhar and Ratlam and ends at Jaora (Km 125+000). As per Schedule B of Concession Document, three bypasses have been proposed at Ratlam "Hasanpalya Bypass" and Namli Bypass.

There are 8 major intersections, 3 railway level crossings, 2 major bridges and 34 minor bridges. Both the major bridges and 21 minor bridges have been recommended for reconstruction alongwith 3 new ROBs, 6 underpasses and 46 pipe culverts.

As Resident Engineer, responsibilities include assisting the Team Leader in administering the civil contracts, approve materials and ensure that the quality of the works in accordance with contractual specification. Approve the contractors' works programme and the sources of materials. Approval of the work methodology submitted by the contractor. Issue monthly progress report & quarterly progress report to the Client. Inspection of the works during the construction concerning safety, quality & progress of work. Maintenance of a day-by day project diary, which shall record all events pertaining to the administration of the contract. **Also responsible for assisting the Team Leader in reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project Name: Preparation of DPR, Detailed Design & PMC for the construction of Underpass along West of Chord Road at the Intersection of Magadi Road - Chord Road, Bangalore**  
**Period: May 2006 - October 2007**  
**Client: Bangalore Development Authority**  
**Position: Team Leader**



*PKJ*  
**Chief Engineer**  
 Engineering Division  
 M.M.



**Project Description:** The Site is located in the western part of Bangalore and is at the intersection of Chord Road, with Magadi Road. Magadi road and Chord Road junction is a Four-legged skew type intersection. The proposed underpass is a 4 lane divided two-way underpass along Chord Road and 2 lane one-way flyover with an upramp from Vijayanagar towards Majestic. The project details are as follows:

a)	Total Width		
	For Flyover	-	8.5 m
	For Underpass	-	18.8 m (Open portion) 22.0 m (Box portion)
b)	Vertical clearance	-	5.5 m
c)	Minimum width of Footpath	-	2.0 m
d)	Length of Flyover	-	451.904 m
e)	Length of Underpass	-	507.316 m
f)	Length of Underpass Box	-	138 m
g)	Width of Median	-	0.8 m (Open portion) 4.0 m (Box portion)

The project involve constructing a Pre-cast pre-stressed concrete girder, Cast-in- situ Diaphragm and cast-in-situ deck slab. The flyover approaches will have reinforced earth retaining walls (RE Panels) towards majestic and RCC walls towards Vijayanagar. Underpass open portion retaining walls shall be of RCC type

As Team Leader, responsible for assist the employer in proper monitoring / progress of works and implementation of the maintenance programme. Scrutinizing Contractors' detailed work programme and suggesting modifications. Approve the construction maintenance, erection and operation methods of contractor, Interpretation of the Technical Specifications and Contract Documents. Regular inspection of the contractor's equipment, plant, machinery and installations. Approve materials and ensure that the quality of the works in accordance with the contractual specifications. **Also responsible for reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project: Proof checking of design & Project Management Consultancy Services for Interchange at the Intersection at Airport Road -IRR, Bangalore**

**Period: June 2003 - April 2006**

**Client: Bangalore Development Authority**

**Position: Team Leader**

**Project Description:** This 4 lane main flyover is along the Intermediate Ring Road and signal free junction is made possible by providing loops for free right turns. The project period is 15 months and cost of the project is Rs. 36 crores. The length of the main flyover is 435m with a width of 15.8m and total length of the loops is 1059m with a width of 8.0 m. The superstructure of flyover and loops are made of pre-stressed PSC Box Girder (Segmental construction). Approach ramps of the flyover are provided with reinforced earth retaining walls. Grade level bridges are proposed across the drain for service roads.

As Team Leader, responsible for assist the employer in proper monitoring / progress of works and implementation of the maintenance programme. Scrutinizing Contractors' detailed work programme and suggesting modifications. Approve the construction maintenance, erection and operation methods of contractor, Interpretation of the Technical Specifications and Contract Documents. Regular inspection of the contractor's equipment, plant, machinery and installations. Approve materials and ensure that the quality of the works in accordance with the contractual specifications. **Also responsible for reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project: Construction Supervision for 4-laning and Strengthening of existing 2-lane of Ratanpur to Himmatnagar Section of NH-8 (Package III) from Km 388.400 to Km 443.000 in Gujarat. Length - 54.600 Km.**

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



**Period: April 2001 – May 2003**

**Client: National Highways Authority of India**

**Position: Resident Engineer**

**Description:** The Ministry of Road Transport & Highways, Govt. of India, as a part of National Highway Development Project, proposed to widen and strengthen the corridor connecting Delhi Mumbai, which forms a part of Golden Quadrilateral National Highway network connecting the four metropolitan cities in India. The present construction supervision package which falls on NH-8 in Gujarat is out of Domestic funded project. The assignment has been named as Consultancy Services for Construction Supervision of works for four laning and strengthening of the existing two lane stretches from Ratanpur to Gandhinagar (km 388.4 to km 495.00) on NH-8 in the state of Gujarat – Construction Supervision Package No. GQ/GM(PI)-III/SC/UG-I for contract packages UG/3 & UG/4 under domestic funding project.

As Resident Engineer, responsibilities include assisting the Team Leader in administering the civil contracts, approve materials and ensure that the quality of the works in accordance with contractual specification. Approve the contractors' works programme and the sources of materials. Approval of the work methodology submitted by the contractor. Issue monthly progress report & quarterly progress report to the Client. Inspection of the works during the construction concerning safety, quality & progress of work. Maintenance of a day-by day project diary, which shall record all events pertaining to the administration of the contract. **Also responsible for assisting the Team Leader in reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project: Construction supervision of four laning of National Highway NH-8 from Gurgaon to Haryana / Rajasthan border - Asian Development Bank funded. (Total Length: 47 Kms.)**

**Period: Nov 1997 – March 2001**

**Client: National Highways Authority of India**

**Position: Resident Engineer**

**Description:** The concerned National Highway (NH) - 8 starts from Gurgaon and extends up to Kotputli at the border of Haryana and Rajasthan (47 km. in length). The project involves widening and four laning of the existing National Highway and includes use of geotextiles for reinforcing high embankments.

As Resident Engineer, responsibilities include assisting the Team Leader in administering the civil contracts, approve materials and ensure that the quality of the works in accordance with contractual specification. Approve the contractors' works programme and the sources of materials. Approval of the work methodology submitted by the contractor. Issue monthly progress report & quarterly progress report to the Client. Inspection of the works during the construction concerning safety, quality & progress of work. Maintenance of a day-by day project diary, which shall record all events pertaining to the administration of the contract. **Also responsible for assisting the Team Leader in reviewing and approving the construction zone safety plans and traffic management and safety plans prepared by the Contractor and ensure their strict compliance as per the relevant guidelines, Reviewing all temporary works / staging along with the structural / bridge engineer from the safety point of view; Guide the field supervision teams and the contractor's site officers in complying with adequate construction safety standards in worksites, plant sites and quarry locations.**

**Project: Construction supervision of four laning and strengthening of National Highway-1 in Haryana (WB aided) (Total Length: 79.50 Kms.)**

**Period: July 1994 – Oct 1997**

**Client: Ministry of Surface Transport, India, PWD Haryana**

**Position: Resident Engineer**

**Description:** Construction supervision for the proposed four laning of 79.5 kms. Of NH-1 in the state of Haryana. The Project cost was Rs. 350 Crores

As Resident Engineer, responsibilities include assisting the Team Leader in administering the civil contracts, approve materials and ensure that the quality of the works in accordance with contractual specification. Approve the contractors' works programme and the sources of materials. Approval of the work methodology submitted by the contractor. Issue monthly progress report & quarterly progress report to the Client. Inspection of the works during the construction concerning safety, quality & progress of work.



*P. K. Jain*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





Maintenance of a day-by day project diary, which shall record all events pertaining to the administration of the contract.

**Project: 11 Bridges including barrage at Andhra Pradesh - World Bank Funded**

**Period: May 1992 – June 1994**

**Position Held: Bridge Engineer**

**Description:** The World Bank aided project includes detailed survey, geotechnical investigations, detail engineering, preparation of technical specifications, tender documents and construction supervision of the bridges located of various locations in Andhra Pradesh. Review Contractors Quality Assurance & Control Systems.

As Bridge Engineer, has been responsible for the construction supervision of the construction activities on the 11 bridges, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

**Project: Deo Aqueduct Project at Baroda, Gujarat.**

**Period: Feb 1991 - April 1992**

**Employer: Gammon India Ltd.**

As Senior Engineer, responsible for construction activities, and carrying out Quantity Surveying and estimation of quantities.

**Project: Rail cum Road Bridge, Assam – 2.5 Km long**

**Period: March 1990 - Jan 1991**

**Employer: Gammon India Ltd.**

The project involves Sinking of well upto 72 m depth and plugging of wells. Bridge (Rail cum Road)

As a Bridge Engineer was responsible for checking reinforcement and foundation layout, checking and assisting in approving the mix designs, quality control of concrete, supervision of placement of concrete and shuttering. Expertise also includes, design review, review of geo-technical and material investigation reports, project management and construction supervision involving checking and controlling mix design, checking of formwork, laying/ compacting/ curing operations for concrete, preparation of progress reports and checking of work as per MORTH / IRC standards and contract specifications. Specialization in bridge foundations, River Training work, Cofferdams, Floating Caissons and Well Sinking including Pneumatic Sinking etc.

**Project: Teesta Bridge, West Bengal.**

**Period: 1987 – 1990**

**Employer: Gammon India Ltd.**

**Description of duties:**

This bridge is an arch bridge with open foundations.

As a Field Engineer (Bridges), has been responsible for the construction supervision of the bridge, including superstructure and approaches to the bridge

**Project: Mahatma Gandhi Setu, Patna, Bihar.**

**Period: 1983 – 1987**

**Employer: Gammon India Ltd.**

**Description of duties:**

Quality control, concrete, reinforcement, stressing of cantilever span and pier head stability cables. Bridge is cantilever type, 4 lane, well foundation, superstructure Box type (precast and cast-in-situ with prestress). Bridge length is 5575 metres.

**Languages:**

**Language**

English

Hindi

**Speaking**

Excellent

Excellent

**Reading**

Excellent

Excellent

**Writing**

Excellent

Excellent



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



Chief Engineer  
 Engineering Division  
 M.M.R.D.A.





# BANGALORE UNIVERSITY

*certifies that*

*Pradeep Kumar Jain*

*has been duly admitted to the Degree of*

*Bachelor of Engineering*

*in recognition of the fulfilment of requirements*

*for the said degree as follows*

*Year of Examination August 1982*

*Subjects Civil Engineering*

*Class First*

*Given under the seal of the University*

*Bangalore*



*Shankar Narayanaiah*  
*Vice-Chancellor*

*19<sup>th</sup> March 1984*



*beej*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





16  
5737  
183

PERMANENT ACCOUNT NUMBER

ABVPJ029JR



MR. NAME  
PRADEEP KUMAR JAIN

MR. NAME  
SIPRABU RAJ JAIN

MR. NAME  
15-12-1957

SIGNATURE

अवकाश आवृत्ति (कामपुत्र)



*(Signature)*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. P K Jain is working with STUP Consultants Pvt. Ltd. since May 1992 to till date on the following assignments.


Name of the Assignment	Period	Position Held
Authority's Engineer for Construction and Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D. (Transit Oriented Development) basis on Engineering Procurement and Construction (EPC) contract mode <i>Client: Ghaziabad Development Authority</i>	January 2015 In Progress	Team Leader
Consultancy Services for Detailed Engineering Design and PMC for construction of Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km.0/000 to 2/500 <i>Client: MMRDA</i>	October 2009 December 2014	Team Leader
Project Management Consultant for the 4-Lane Bhosari Flyover on Pune-Nashik Road (NH-50) <i>Client: Pimpri Chinchwad Municipal Corporation</i>	August 2008 September 2009	Resident Engineer (Structures)
Preparation of DPR, Detailed Design & Project Management Consultancy Services for the construction of Underpass along West of Chord Road at the Intersection of Magadi Road - Chord Road, Bangalore <i>Client: Bangalore Development Authority</i>	May 2006 July 2008	Senior Resident Engineer
Proof checking of design & Project Management Consultancy Services for Interchange at the Intersection at Airport Road -IRR, Bangalore <i>Client: Bangalore Development Authority</i>	June 2003 April 2006	Senior Resident Engineer
Design and Construction Supervision of NH-17B to Four Lane Standards from Verna Junction on NH-17 to Mormugao Port in Goa <i>Client: National Highways Authority of India</i>	April 2001 May 2003	Resident Engineer
Construction supervision of four laning of National Highway NH-8 from Gurgaon to Haryana / Rajasthan border - Asian Development Bank funded (Length: 47 Kms.) <i>Client: National Highways Authority of India</i>	November 1997 March 2001	Resident Engineer
Construction supervision of four laning and strengthening of National Highway-1 in Haryana (WB aided) <i>Client: Ministry of Surface Transport, India, PWD Haryana</i>	July 1994 October 1997	Asstt. Resident Engineer
Consultancy services for the construction of 11 Bridges including barrage at Andhra Pradesh - World Bank Funded	May 1992 June 1994	Senior Bridge Engineer

For STUP Consultants Pvt. Ltd

  
A. D. Joshi  
Executive Vice President

Date: 11/04/2018



  
Chief Engineer


Engineering Division  
M. M. R. D. A.  
E-mail: navi@mumbai@stupmail.com



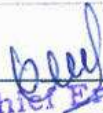
Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navi@mumbai@stupmail.com  
Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
Tel: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com



### Curriculum Vitae (CV) for Proposed Key Staff

1.	<b>Proposed Position</b>	: K-2: Resident Engineer	
2.	<b>Name of Staff</b>	: Rajesh Jadhav	
3.	<b>Date of Birth</b>	: 17 March, 1973	
4.	<b>Nationality</b>	: Indian	
5.	<b>Education Qualification</b>	: <ul style="list-style-type: none"> <li>• M.E. (Construction Management); SPPU Pune; 2017</li> <li>• B.E (Civil), Shivaji University Kolhapur, 1993</li> <li>• PG Diploma in Business Management; Shivaji University; 1996</li> </ul>	
	<b>Contact Address with Phone and mobile numbers</b>	: C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-40887777	
6.	<b>Membership of Professional Societies</b>	: <ul style="list-style-type: none"> <li>Member; Institute of Engineers of India-(FIE), Member No. F 121780-8 (Chartered Engineer)</li> <li>Member; Indian Roads Congress-Member No.eLM-100509</li> <li>Member; Indian Institution of Bridge Engineers, Member No. LF -1865</li> </ul>	
7.	<b>Employment Record</b>	:	
	<b>From December 2018</b>	: <b>Till Date</b>	
	<b>Employer</b>	: <b>Louis Berger Consulting Private Limited</b>	
	<b>Position held</b>	: <b>Resident Engineer</b>	
	<b>From March 2016</b>	: <b>December 2018</b>	
	<b>Employer</b>	: <b>Shrikhande Consultant Pvt. Ltd Mumbai</b>	
	<b>Position held</b>	: <b>Bridge / Structural Engineer</b>	
	<b>From March 2004</b>	: <b>March 2016</b>	
	<b>Employer</b>	: <b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>	
	<b>Position held</b>	: <b>Resident Engineer cum Structural/bridge Specialist / Senior Bridge Structural Engineer</b>	
	<b>From February 2003</b>	: <b>February 2004</b>	
	<b>Employer</b>	: <b>J Kumar Infra Projects Ltd Mumbai</b>	
	<b>Position held</b>	: <b>Senior Bridge Construction Engineer cum Resident Engineer.</b>	
	<b>From November 1997</b>	: <b>January 2003</b>	



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.





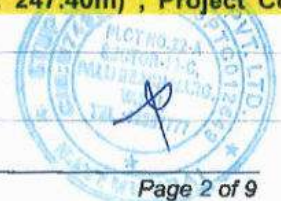
Employer	:	Ameya Developers Pvt. Ltd. Pune
Position held	:	Senior Bridge Engineer
From December 1995	:	October 1997
Employer	:	G D Chavan & Associates
Position held	:	Assistant Engineer
From November 1994	:	November 1995
Employer	:	Maharashtra State Electricity Board
Position held	:	Junior Engineer
From July 1993	:	November 1994
Employer	:	S D Lokhande
Position held	:	Junior Engineer
<b>8. List of projects on which the Personnel has worked:</b>		

Period from: <b>December 2018</b>	Period to: Till Date
Name of Employer	<b>Louis Berger Consulting Private Limited</b>
Name of the Project	<b>Mumbai Coastal Road Project (South) Package I: Design and Construction Contract for Road, Bridges, Interchanges, Including Reclamation and Associated Works (Priyadarshini Park to Baroda Palace)</b>
Client for the project	Municipal Corporation of Greater Mumbai
Project Description	<b>Length: 3.820 Kms. (8-lane); Project Cost: 3505.00 Crores Structures (Interchanges (3 lane) - 8.0 Km, Main Bridge (8 lane) - 1.40 Km</b>
Designation / Position held in Project	<b>Resident Engineer</b>
Duties and responsibility of key-personnel in the project	As Resident Engineer, responsible for the Supervision of all project related activities such as Reclamation, Seawall, Interchanges, Bridge, Highway, Drainage, etc.

Period from: <b>March 2016</b>	Period to: <b>December 2018</b>
Name of Employer	<b>Shrikhande Consultant Pvt Ltd</b>
Name of the Project	<b>Authority's Engineer For Construction of major bridges/ROB on NH-66 (old no. NH-17) from Ch.161.00 to 450.00</b>
Client for the project	MORTH
Project Description	<b>Cumulative Length of the Bridges: 1168.00 m (Maximum Individual Span of 43.00m) &amp; (Maximum Length of individual Bridge: 247.40m) ; Project Cost: 145.00 Crores</b>
Designation / Position held in Project	Bridge / Structural Engineer



*Handwritten signature*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





Duties and responsibility of key-personnel in the project	As <b>Bridge / Structural Engineer</b> , he was responsible for construction of bridges & ROB in compliance with design provisions; Review of engineering design and drawings; Execution of all works as per the specifications and standards; Maintain quality control during execution of works; Monitoring of Project Schedule; To assess the adequacy of contractor's equipment for construction; To undertake project site visits and guide, supervise, coordinate and monitor the execution of work; Scrutiny & Approval of Working Drawings of Structures. Responsible for assisting TL in day-to-day work as well as policy matters, preparation of variation statements, MRP and approval of centering-shuttering, checking placement of reinforcement, BBS, stressing, grouting, measurement of work done, Scrutiny of COS proposals, etc.
---	--

Period from: <b>December 2014</b>	Period to: <b>March 2016</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for Design and Construction of Eastern Freeway from Museum to Anik Junction (with Segmental technology superstructure).</b>
Client for the project	MMRDA, Mumbai
Project Description	<b>(Maximum Individual Span of 35.80m) &amp; (Maximum Length of individual Bridge: 9210.00m); Lane: 4-lane; Project cost: INR 548.00 crores.</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , Responsible for proof checking of bridges /other structure; Reviewing the contractor's work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction Supervision of bridge works; Verification of lines and levels, inspection of works, acceptance and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques viz. CPM / PERT; Checking of measurement of works completed; the activity includes the supervision of the execution of the flyover with segmental technology superstructure as per approved drawings.

Period from: <b>November 2011</b>	Period to: <b>November 2014</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for four laning of Panvel Indapur Section of NH 17 from km 0+000 to 84+600 in the state of Maharashtra under NHDP Phase-III on BOT Basis</b>
Client for the project	National Highways Authority of India (NHAI)
Project Description	<b>Project Length: 84.60 km; Lane: 4-lane; Cumulative Length of the Bridges: 2367.00 m (Maximum Individual Span of 42.50m) &amp; (Maximum Length of individual Bridge: 1120.00m) ; Project cost: INR 950 crore.</b>
Designation / Position held in Project	Resident Engineer cum Structural/bridge Specialist
Duties and responsibility of key-personnel in the project	As <b>Resident Engineer cum Structural/bridge Specialist</b> , Responsible for proof checking of bridges /other structure; Reviewing the contractors work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction Supervision of bridge works; Verification of lines and levels, inspection of works, acceptance



*(Signature)*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

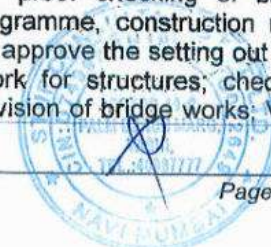


	and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques viz. CPM / PERT; Checking of measurement of works completed. The work undertaken as per technical specification and guidelines stipulated in contractual agreement and adopting modern construction techniques. Preparation of COS proposals.
Period from: <b>April 2009</b>	Period to: <b>November 2011</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for the Project of Construction of Flyover / Elevated Road opposite to Panvel Bus Depot on Old Mumbai Pune Highway (NH 4) (Precast Segmental with incremental launching method)</b>
Client for the project	MSRDC
Project Description	<b>Lane: 2-lane (divided); Cumulative Length of the Bridges: 2382.00 m (Maximum Individual Span of 40.00m) &amp; (Maximum Length of individual Bridge: 1508.00m) ; Project cost: INR 144 crore.</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , Responsible for proof checking of bridges /other structure; Reviewing the contractors work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction Supervision of bridge works; Verification of lines and levels, inspection of works, acceptance and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques viz. CPM / PERT; Checking of measurement of works completed; the activity includes the supervision of the execution of the flyover with segmental technology superstructure as per approved drawings..

Period from: <b>December 2006</b>	Period to: <b>March 2009</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for the Project of Construction of Interchange at NH-7 and ROB across Central railway in MIHAN Project Area at NAGPUR (Precast Segmental, PSC In Situ Box Girder, Cast in situ voided slab)</b>
Client for the project	MADC
Project Description	<b>Lane: 4-lane; (Maximum Individual Span of 36.40m) &amp; (Maximum Length of individual Bridge: 2409.00m) ; Project cost: INR 65.60 crore.</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , Responsible for proof checking of bridges /other structure; Reviewing the contractors work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction Supervision of bridge works; Verification of



*Rajesh Jadhav*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





	lines and levels, inspection of works, acceptance and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques viz. CPM / PERT; Monitored day to day work of different components of flyover like casting and launching of precast segments, in situ box girders, voided slab, precast prestressed I Girders, etc. Witnessing in house testing at factory location.
--	---

Period from: <b>October 2005</b>	Period to: <b>December 2006</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for the Improvement to Nagpur Aurangabad-Sinner- Ghoti- Mumbai road to National Highway Standard road (Package-VII, Karanja Malegaon Section</b>
Client for the project	MSRDC
Project Description	<b>Project Length: 66 km; Lane: 2-lane; Project cost: INR 64.00 crore. Cumulative Length of the Bridges: 134.00 m (Maximum Individual Span of 8.00m) &amp; (Maximum Length of individual Bridge: 60.00m) ;</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , Responsible for proof checking & designs of bridges /other structure; Reviewing the contractors work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction Supervision of bridge works; Verification of lines and levels, inspection of works, acceptance and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques; Inspection and approvals of various activities for construction of CD works, Minor and Major Bridges. Monitoring of the progress of work; Providing assistance to the Team Leader.

Period from: <b>March 2004</b>	Period to: <b>October 2005</b>
Name of Employer	<b>Consulting Engineering Services (India) Private Limited, (Jacobs - CES)</b>
Name of the Project	<b>Project Management Consultancy for the Project of Design &amp; Construction of Flyovers at Panchwati and Rajkamal square, Widening of Minor Bridges and Widening &amp; Strengthening of Roads under Integrated Road Development Project (IRDP) at Amravati, Maharashtra</b>
Client for the project	MSRDC
Project Description	<b>4-lane; Project cost: INR 60.00 crore</b> <b>Cumulative Length of the Bridges: 2350.00 m (Maximum Individual Span of 40.00m) &amp; (Maximum Length of individual Bridge: 1325.00m) ;</b>
Designation / Position held in Project	Resident Engineer cum Structural/bridge Specialist
Duties and responsibility of key-personnel in the project	As <b>Resident Engineer cum Structural/bridge Specialist</b> , Responsible for proof checking & designs of bridges /other structure; Reviewing the contractors work programme, construction methodology, superintendence and personnel etc.; check and approve the setting out of the works; Checking bar bending schedule and form work for structures; checking cement concrete mixes to be used; Construction



*Rajesh Jadhav*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



	Supervision of bridge works; Verification of lines and levels, inspection of works, acceptance and rejection of the completed works; supervision of laying, compaction and curing of concrete including checking slump and compressive strength; Ensuring quality control of works during various phases of the execution; Monitoring progress of work using relating to innovative structural designs Modern Project Management Techniques viz. CPM / PERT; Monitored day to day work of different components of structures; involved in inspection and approvals of various activities such as soil investigation, preliminary survey, Road Furniture, etc..
--	--

Period from: <b>February 2003</b>	Period to: <b>February 2004</b>
Name of Employer	<b>J Kumar Infra Projects Ltd Mumbai</b>
Name of the Project	<b>Construction of Flyover at Hadapsar, Pune on NH-9 &amp; Construction of ROB at Udaybag, Pune</b>
Client for the project	MSRDC
Project Description	<b>4-lane; Project cost: INR 21.00 crore</b>  <b>Cumulative Length of the Bridges: 2100.00 m (Maximum Individual Span of 38.00m) &amp; (Maximum Length of individual Bridge: 1400.00m) ;</b>
Designation / Position held in Project	Senior Bridge Construction Engineer cum Resident Engineer.
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Construction Engineer cum Resident Engineer</b> , is responsible for the execution of 4 lanes Flyover with Precast Pretensioned I & C Girders and in situ Deck slab, Substructure by Aesthetically casted Circular Pier & Pier Cap rested on Open as well as Pile Foundation; Widening of one minor Bridge; Responsible for execution of work as per planned schedule; Procurement & Management of Labour, Material; Correspondence with Client and Contractor, Billing of works, etc.; Certifications of the payments of sub contractors, Preparation of R.A.Bills, follow up with Client for Bill certification. Also responsible for Preparation of Quality Management Plan; Setting out of works as per approved drawings; Checking alignment of the bridge, culverts and other CD structures; Preparation of Bar Bending Schedule for cutting, binding and fixing as per structural drawings; Preparation of schedule of shuttering work in conformity with sequence of concreting..

Period from: <b>Dec. 2001</b>	Period to: <b>January 2003</b>
Name of Employer	<b>Ameya Developers Pvt. Ltd</b>
Name of the Project	<b>Widening to four lane of NH-8A including rehabilitation of existing two lane on Ahmadabad Gandhidham highway at Gandhidham, Gujarat</b>
Client for the project	NHAI
Project Description	<b>4-Lane; Project length: 53.60 Km; Project cost: INR 24.00 crore</b>  <b>Cumulative Length of the Bridges: 985.00 m (Maximum Individual Span of 35.00m) &amp; (Maximum Length of individual Bridge: 730.00m) ;</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , was involved in Checking alignment of the bridge and other structures; Preparation of Bar Bending Schedule for cutting, binding and fixing as per structural drawings; Preparation of schedule of shuttering work in conformity with sequence of concreting; Checking staging and formwork details; Supervising reinforcement cutting, binding, fixing and shuttering fixing as per drawing; Working on material requirements; Execution of substructure, Superstructure by prestressed I Girder, RE work at approach, Crash Barrier, Expansion Joint, etc.; Preparation of Quality Management Plan; Setting out of works as per approved drawings; certification of payments of sub contractors & quantity measurements for client



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



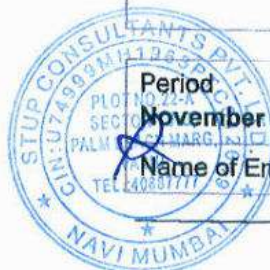


certification. Reconstruction of three major bridges with dismantling of existing arch bridges. Execution of minor bridges & one ROB. Repair work in disturbed bridge structures due to earthquake such as bearing replacement, reconstruction. Preparation and submission of As-Built drawings.

Period from: <b>November 2000</b>	Period to: <b>December 2001</b>
Name of Employer	Ameya Developers Pvt Ltd
Name of the Project	<b>Construction of Twin Flyovers at Ulubari junction, Guwahati, Assam</b>
Client for the project	PWD Assam
Project Description (give details of 2/4/6 lane lengths involved, details of structures involved as required in evaluation criteria)	<b>4-Lane. Project cost: INR 12.50 crore.</b> <b>Cumulative Length of the Bridges: 1440.00 m (Maximum Individual Span of 32.00m) &amp; (Maximum Length of individual Bridge: 720.00m) ;</b>
Designation / Position held in Project	<b>Senior Bridge Engineer (Equivalent to Resident Engineer (Bridges))</b>
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , was involved in execution of the Twin Flyovers at Ulubari junction; maintaining progress of work, scheduling of items, material requirements, quality control, safety of workplace, quantity measurements for client certification; Co-ordination with local agencies, subcontractors, etc. Also involved in construction of structures, Review of detailed project report including checking and review of design of structures; checking of layout of structures and approaches; supervising the implementation of Ground Improvement Techniques for the foundation work. assuring the quality of construction as per approved drawings and specifications, verifying day to day site activities and checking of working drawings and proposed methodology which are to be adopted for the execution of works.

Period from: <b>April 1999</b>	Period to: <b>October 2000</b>
Name of Employer	Ameya Developers Pvt Ltd
Name of the Project	<b>Construction of Creek Bridge at Dharamtar Dist. Raigad (BOT basis)</b>
Client for the project	Madhya Pradesh Road Development Corporation / Pan India Infrastructure Ltd.
Project Description	<b>4-Lane; Project cost: INR 15.50 crore</b> <b>Cumulative Length of the Bridges: 344.00 m (Maximum Individual Span of 27.00m) &amp; (Maximum Length of individual Bridge: 320.00m) ;</b>
Designation / Position held in Project	<b>Senior Bridge Engineer (Equivalent to Resident Engineer (Bridges))</b>
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , was involved in construction of structures, Review of detailed project report including checking and review of design of structures; checking of layout of structures and approaches; supervising the implementation of Ground Improvement Techniques for the foundation work. assuring the quality of construction as per approved drawings and specifications, verifying day to day site activities and checking of working drawings and proposed methodology which are to be adopted for the execution of works. Done Precast Prestressed Posttensioned Girders with in situ deck slab; Incremental Launching span by span; Also responsible for maintaining progress of work, material requirements, quantity measurements etc.

Period from: <b>November 1997</b>	Period to: <b>April 1999</b>
Name of Employer	Ameya Developers Pvt Ltd



*Rajesh Jadhav*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of the Project	<b>Construction of Twin Flyovers at Konkan Bhavan Junction at CBD, Navi Mumbai</b>
Client for the project	Maharashtra State Road Development Corporation Ltd.
Project Description	<b>4-Lane. Project cost: INR 20.00 crore.</b> <b>Cumulative Length of the Bridges: 1220.00 m (Maximum Individual Span of 30.00m) &amp; (Maximum Length of Individual Bridge: 610.00m) ;</b>
Designation / Position held in Project	Senior Bridge Engineer ( <i>Equivalent to Resident Engineer (Bridges)</i> )
Duties and responsibility of key-personnel in the project	As <b>Senior Bridge Engineer</b> , responsible for preparation of Quality Management Plan; Setting out of works as per approved drawings; Checking alignment of the bridge; Preparation of Bar Bending Schedule for cutting, binding and fixing as per structural drawings; Preparation of schedule of shuttering work in conformity with sequence of concreting; Checking staging and formwork details; Supervising reinforcement cutting, binding, fixing and shuttering fixing as per drawing; Working on material requirements; Execution of substructure, Superstructure by In situ Prestressed Posttensioned Box Girder, RE work at approach, Crash Barrier, Expansion Joint, etc.; Prestressing activities like stressing, grouting, etc.

Period from: <b>December 1995</b>	Period to: <b>October 1997</b>
Name of Employer	G D Chavan & Associates
Name of the Project	<b>Construction of Multistoried Residential Apartment at Sangli and Pune</b>
Client for the project	Ownership
Project Description	<b>Project cost: INR 0.40 crore.</b>
Designation / Position held in Project	Assistant Engineer
Duties and responsibility of key-personnel in the project	As <b>Assistant Engineer</b> , Responsible for execution of multi-storeyed apartments, Licensing with local municipal office, architect, structural designer, etc..

Period from: <b>November 1994</b>	Period to: <b>November 1995</b>
Name of Employer	Maharashtra State Electricity Board
Name of the Project	<b>Construction of Substations and its access roads for Power distribution</b>
Client for the project	Maharashtra State Electricity Board; Civil Division Sangli, Maharashtra
Project Description	<b>Project cost: INR 0.10 crore.</b>
Designation / Position held in Project	Junior Engineer
Duties and responsibility of key-personnel in the project	As <b>Junior Engineer</b> , responsible for the execution of the building for substation, development of substation area as per approved drawing.

Period from: <b>July 1993</b>	Period to: <b>November 1994</b>
Name of Employer	S D Lokhande
Name of the Project	<b>Construction of Industrial Buildings for Textile Industry through LIC funding at Ichalkaranji, Dist-Kolhapur</b>



Chief Engineer  
Engineering Division  
M.M.R.D.A.





Client for the project	Industrial Co-Op Society Ltd
Project Description	Project cost: INR 1.25 crore.
Designation / Position held in Project	Junior Engineer
Duties and responsibility of key-personnel in the project	As Junior Engineer, responsible for Monitoring of work progress, Scheduling of items, surveying, preparation of estimates, tender process, measurement records, execution of works as per the specification, certification of payments of contractors. etc.

Languages	:	Language	Speaking	Reading	Writing
		English	Excellent	Excellent	Excellent
		Marathi	Excellent	Excellent	Excellent
		Hindi	Excellent	Excellent	Excellent

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



**WE** the Chancellor, Vice-Chancellor and Members of the Executive Council, on the recommendation of the Senate of the Shivaji University, certify

 that the withinsigned Rajesh Balasaheb Jadhav of the Padmabhushan Vasantraodada Patil Institute of Technology

having been examined for the Degree of Bachelor of Engineering, and on being adjudged to have passed the Examination in First Class with Distinction, in April 1993, the Degree of:

**Bachelor of Engineering**

( CIVIL )

has been conferred on him at Kolhapur, on the twentyfirst day of the month of March in the year one thousand nine hundred and ninetyfour.

In Testimony whereof are set the Seal of the University and the Signatures of the Registrar and the Chancellor.




Registrar.



Chief Engineer  
Engineering Division  
M.M.R.D.A.



Chancellor.

**WE** the Chancellor, Vice-Chancellor and Members of the Management Council, on the recommendation of the Academic Council of the Shivaji University, certify  that the withinsigned Rajesh Balasaheb Gadhave

having been examined for the Diploma in Business Management, and on being adjudged to have passed the Examination in First Class with Distinction, in April 1996 the

## Diploma in Business Management

has been conferred on him at Kolhapur, on the twentieth day of the month of January in the year one thousand nine hundred and ninetyseven.

In Testimony whereof are set the Seal of the University and the Signatures of the Registrar and the Vice-Chancellor.

  
Registrar.

  
Vice-Chancellor



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





आयकर विभाग

INCOME TAX DEPARTMENT

RAJESH BALASAHEB JADHAV

BALASAHEB RAMA JADHAV

17/03/1973

Permanent Account Number

ADKPJ9474A

*[Handwritten Signature]*

Signature



भारत सरकार

GOVT. OF INDIA



03052014

Chief Engineer  
Engineering Division  
M.M.R.D.A.



# AMEYAS INFRAPROJECT PRIVATE LIMITED

(Formerly : Ameya Developers Private Limited)

**CIVIL ENGINEERS AND CONTRACTORS**

Regd. Office : 2, Yashashree Apartment, Kohinoor Colony, Sahakamagar No. - 2, Pune 411 009.

Tel.: (020) 24231378, 24231379, Fax : (020) 24225744 E-mail : ameyadevelopers@vsnl.com

February 06, 2018

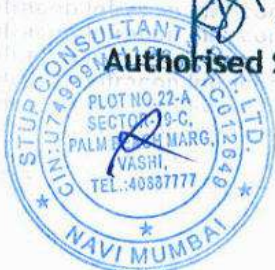
**To Whomsoever It May Concerned**

This is to certify that **Mr. Rajesh Balasaheb Jadhav** was working in our organization from 01/11/1997 to 31/01/2003 as Senior Engineer. Details as below,

1. Construction of Twin Flyovers at Konkan Bhavan Junction at CBD on old Mumbai Pune Highway (NH-4), Navi Mumbai (Nov, 1997 - May, 1999)
2. Construction of Creek Bridge at Dharamtar Dist. Raigad (BOT basis) (June, 1999 - Oct, 2000)
3. Construction of Twin Flyovers at Ulubari junction, Guwahati, Assam (Nov, 2000 - Dec, 2001)
4. Widening to four lane of NH-8A including rehabilitation of existing two lane on Ahmadabad Gandhidham highway at Gandhidham, Gujarat. (Jan, 2002 - Jan, 2003)

During the above tenure we found him sincere & hardworking. He left from our organization for better prospect.

For Ameyas Infraprojects Pvt. Ltd.



Authorised Signatory



Chief Engineer  
Engineering Division  
M.M.R.D.A.



**SHRIKHANDE**  
**CONSULTANTS PVT. LTD.**  
TRUST • EXPERIENCE • QUALITY

07.12.2018

**Work Experience Certificate**

This is to certify that Mr. Rajesh Balasaheb Jadhav has worked as Senior Bridge Engineer in our organization since 14/03/2016 to 07/12/2018. During his tenure, he was involved in Project Management Consulting services for Major Bridges, ROB's of National Highway Project. Also he managed Pre-Tender Services (Retendering work) of same project. He was associated with following projects,

1. Construction of 4 lane/ 2 lane major/minor bridges and Robs in the stretch from km. 161.000 (Kashedi) to 450.000 (Zarap) OF NH- 66(erstwhile NH-17) in the state of Maharashtra under NHDP-IV on the EPC Mode, Package-I, II, III (4 Lane) (Length-289 Km) – Sr Bridge Engineer (March, 2016 – Dec, 2018)

Apart from above projectwork, he managed Pre-Tender Services, DPR projects works for below projects,

2. Consultancy services for Preparation of Detailed Project Report for up gradation to Two lanes with paved shoulder/ Four Lane Configuration –Package I - Chandwad-Mannad-Chalisingaon-Bhadgaon-Jalgaon in the State of Maharashtra(2/4 Lane) (Length-289 Km) – Sr Bridge Engineer (Sept, 2016 – Oct, 2016)

3. Detailed Project Report (DPR) for capacity Augmentation to 2 lanes with paved shoulders configuration for NH Corridors of NH 183 (Old NH 220) from km 0/000.to km 62/100 (Kollam to Anjilimoodu in the State of Kerala(2 Lane) (Length- 190.00 Km) – Sr Bridge Engineer (Mar, 2018 – May, 2018)

As per our record, his conduct and character during his service was good. We found him meticulously intelligent, hard worker in his duties. He was sincere, honest, and was working with full integrity. He has successfully managed his responsibilities.

We wish him all success in his future endeavors.

**For Shrikhande Consultants Pvt. Ltd.**



*Rajesh Jadhav*  
Authorized Signatory



*bley*

**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





**Consulting Engineering Services (India) Private Limited**

2<sup>nd</sup> Floor, A Wing,  
Maestros, Building No. 2, Sector 2,  
Millenium Business Park, Mahape, Navi Mumbai.  
Maharashtra state, India.  
Tel: +91.22.6189 2700 Fax: +91.22 6189 2709

200

March 08, 2016

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Rajesh B. Jadhav** has worked in our organization in different capacities as below for the period from 1<sup>st</sup> March 2004 to 7<sup>th</sup> March 2016.

During his tenure he was involved in Project Management Consultancy services for Major Bridges, Flyovers, National Highway Projects, Pre-Tender Services, etc. List of Projects are given here as below:

- 1) Project Management Consultancy for Construction of Eastern Freeway from Museum to Anik Junction (Start of APLR) (4 Lane) (Length 11.290 km) – **Sr Bridge Engineer** (Dec, 2014 – Feb, 2016)
- 2) Project Management Consultancy for four laning of Panvel Indapur Section of NH 17 from km 0+000 to 84+600 in the state of Maharashtra under NHDP Phase-III on BOT Basis (Package No. NHDP-III/DL4/05) (4 Lane) (Length 84.600 km) - **Resident Engineer(Bridges)** (Dec, 2011 – Nov, 2014)
- 3) Project Management Consultancy for the Project of Construction of Flyover / Elevated Road on Old Mumbai Pune Highway (NH – 4) (MAHARASHTRA) (4 Lane) (Length 2.500 km) – **Sr Bridge Engineer** (Apr,2009 – Nov,2011)
- 4) Project Management Consultancy for the Project of Construction of Interchange at NH-7 and ROB across Central railway in MIHAN Project Area at NAGPUR (MAHARASHTRA) (6 Lane) (Length 3.300 km) – **Sr Bridge Engineer** (Jan, 2007 – Mar, 2009)
- 5) Project Management Consultancy for Improvement to Nagpur –Aurangabad- Sinner- Ghoti-Mumbai road to National Highway Standard road (Package-VII, Karanja – Malegaon Section (2 Lane) (Length 66 km) – **Sr Bridge Engineer** (Nov, 2005 – Dec, 2006)
- 6) Project Management Consultancy for the Project of Design & Construction of Flyovers at Panchwati on NH-6 and at Rajkamal square, Widening of Minor Bridges and Widening & Strengthening of Roads under Integrated Road Development Project (IRDP) at Amravati Maharashtra (4 Lane) (Length 24.000 km) - **Resident Engineer(Bridges)** (Mar,2004 – Oct,2005)

He has successfully handled his responsibilities and we found him sincere, dedicated, hard working and intelligent. He left the organization on his own accord.

We wish him all success in his future endeavors.

For Consulting Engineering Services (I) Pvt. Ltd.,

**Milind M. Phatak**  
Manager (S & SP)

A Subsidiary of Jacobs Engineering Group Inc.

Registered office: Consulting Engineering Services (India) Private Limited, 2<sup>nd</sup> Floor Platinum Tower, Plot No. 184, Udyog Vihar, Phase - 1, Gurgaon 122016 (Haryana), India.

CIN: U74899HR1989PTC053297 Tel: +91.124.331 7000 Fax: +91.124.337 2999 Website: www.jacobs.com



**Chief Engineer**  
Engineering Division  
M.M.R.D.A.



09 November 2018

**Rajesh Balasaheb Jadhav**  
26/ 1, AP- Rendal, District - Kolhapur,  
Maharashtra - 416 203

**SUBJECT: APPOINTMENT LETTER**

Dear Rajesh,

Welcome to Louis Berger Consulting Private Limited.

This has reference to your application and subsequent interviews with Louis Berger Consulting Private Limited, I am pleased to appoint you for the position of **Resident Engineer for "Mumbai Coastal Road Package I Project"** effective on or around **04<sup>th</sup> December 2018**.

This appointment relates to your employment with LBC and following terms & conditions will be applicable:

1. Posting & Transfer.

You will be posted at **Mumbai, India**. However, your services are transferable to any other place or office of the Company or to any subsidiary or associate company, whether now existing or still to be formed. Such transfer / deputation will be in accordance with the company policy and can be temporary or permanent. Though you have been engaged for a specific position, the Company reserves the right to determine the responsibilities that you may be subsequently called upon to perform from time to time.

2. Compensation:

(a) Your monthly basic salary will be [REDACTED] and your Total Annual Compensation would be [REDACTED] per annum. This includes employer's contribution towards Provident fund.

(b) The detailed breakup of your compensation is given in Annexure A.

(c) You will be eligible for coverage under the company's hospitalization, life insurance and personal accident insurance benefits as per the company's policy.

3. Workweek:

The work week is **Six days/week 9 am to 6 pm (with approved lunch break) OR as per work schedule as mandated by client**. However, your duty hours and workweek may be regulated from time to time as per the direction of your Supervisor and/or the Management. Also, you may be required to work on weekend and holidays or beyond normal working hours for exigencies of business.

4. Reporting:

You shall report to the **Project Manager - Mumbai Coastal Road; LBC or his designee**.

5. Scope of Work:

You shall perform the duties **Resident Engineer**. Job description will be provided to you once you join the organization.

5th Floor, Tower B | Surinder Jakhar Bhavan (IFFCO) | Plot No. 3, Sector 32 | Gurugram | Haryana | 122001 | India

Tel +91.124.4578200 | Fax +91.124.4044750 | Email [India@louisberger.com](mailto:India@louisberger.com)

[louisberger.com](http://louisberger.com)

Page 1 of 6



**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

# SAVITRIBAI PHULE PUNE UNIVERSITY

(formerly University of Pune)

GANESHKHIND, PUNE 411 007.



## Passing Certificate

This is to certify that

Shri/Smt JADHAV RAJESH BALASAHEB Mother - VIMAL has appeared for the  
M. E. (CIVIL (CONSTRUCTION & MANAGEMENT)); 2013 Pattern examination held  
in 2017-May and declared to have passed the examination in **FIRST CLASS  
WITH DISTINCTION.**

This is further to certify that he/she is eligible for the aforesaid  
Degree Certificate, whenever he/she applies for the same at the  
University Convocation.

Seat No. .... : 7189

P. R. No. .... : 73502370M

College code: 048



DATE

09-Nov-2017

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



DIRECTOR, BOARD OF EXAM. & EVALU.  
Prof. (Dr.) Ashok M. Chavan

CONTROLLER OF EXAMINATIONS \*\*\*

*G. D. Chavan*

**ENGINEER, BUILDER, PROMOTER & DEVELOPER**

**Flat No. 2, Vajayanta Complex, Vishrambag Sangli 416415 • Phone 0233-2301180 • Pune 020-27216189**

Ref No

Date

18/07/2015

**To whomever it may concern**

**This is to certify that Mr. Rajesh Balasaheb Jadhav had been working with us as Assistant Engineer for the period from 01.12.1995 to 31.10.1997. During his stay with us we found him Intellectual, hard worker, innovator and keen in his work.**

**We are feeling proud to say that he was one of the best employees. He always works for the best of our organization, and he has the ability to work as a team leader.**

**We wish him good luck for his brilliant future.**

*Chavan*  
(G.D. Chavan)



*beu*  
**Chief Engineer  
Engineering Division  
M.M.R.D.A.**





# J. Kumar & Company

**ENGINEERS, BUILDERS & CONTRACTORS**  
**ON APPROVED GOVT. LISTS**

**16-A, ANDHERI INDUSTRIAL ESTATE, VEERA DESAI ROAD, ANDHERI (W), MUMBAI - 400 058.**  
**E-mail : jknc@vsnl.net ☎ : 26730291, 26730848, 26730853, Fax : 022 - 26730814**

**Date: 12/12/2005**

### TO WHOMSOEVER IT MAY CONCERN

**THIS IS TO CERTIFY THAT, MR. R. B. JADHAV, WORKING AS A SENIOR ENGINEER IS HARD WORKING OBEDIENT, INTELEGANT AND HE HAD INCLINATION FOR WORK. HE HAD WORKED AS SENIOR SITE ENGINEER FROM JAN-2003 TO FEB-2004 ON THE FLYOVER WORKS AT HADAPASAR AND ROB AT UDAYBAUG SITE.**

**For J. KUMAR & COMPANY**

**ANAND SHAHAPUR  
(PROJECT MANAGER)**



**Chief Engineer  
Engineering Division  
M.M.R.D.A.**



# महाराष्ट्र राज्य विद्युत मंडळ

स्थापत्य शाखेकाम व सुव्यवस्था विभाग, सांगली.

दूरध्वनी : कार्यालय ७२७४७  
निवास ७३५५६

घात : CIVILGRID

कार्यकारी अभियंता (स्था) यांचे कार्यालय  
म. रा. वि. मंडळ  
विभागवाय, सांगली - ४१६४१५.


संदर्भ : काव/स्था/सांगली /आस्थापना/१५/ १६२१.

दिनांक :

28 FEB 1995

## सेवा प्रमाणपत्र :

- |     |   |   |   |
|-----|---|---|---|
| १]  | नाव   | : | श्री. राजेश बाळासाहेब जाधव                                    |
| २]  | पदनाम                                       | : | शिळाड अभियंता[तांत्रिक]                                       |
| ३]  | नोंदणी क्रमांक                              | : | एमएच-२४-१७८१  |
| ४]  | कामाचे ठिकाण                                | : | म. रा. वि. मंडळ, स्थापत्य विभाग,<br>विभागवाय[सांगली].         |
| ५]  | नियुक्तीचे कार्यालयीन<br>आदेश क्र. व दिनांक | : | एसइसी/पुणे/जीएडी/५५/३१०७<br>दिनांक १०/११/१९९४.                |
| ६]  | मंडळात रूजू झालेली<br>तारीख.                | : | २४/११/१९९४.   |
| ७]  | कामाचे स्वरूप                               | : | कार्यालयीन स्थापत्य कामे.                                     |
| ८]  | सेवेतून मुक्त केल्याची<br>तारीख.            | : | २३/११/१९९५  |
| ९]  | एकूण कालावधी                                | : | दि. २४/११/९४ ते २३/११/९५<br>: [ ] एक वर्ष [ ]                 |
| १०] | वेतन  | : | रुपये ११२०/- दरमहा.   |
| ११] | काम व वागणुकीबाबत<br>शेरा.                  | : | समाधानकारक  |
| १२] | नोकरी तोडण्याचे कारण                        | : | एक वर्षाचा कालावधी संपल्यावर<br>: कार्यमुक्त करण्यात आले आहे. |

  
कार्यकारी अभियंता[स्थापत्य],  
सांगली.


प्रति,  
श्री. राजेश बाळासाहेब जाधव  
मु.पो. यळगुड, ता. हातकण्णले,  
जि. कोल्हापूर.  
जाधव/-२११२९५



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





<b>Curriculum Vitae (CV) for Proposed Key Staff</b>			
1.	<b>Proposed Position</b>	:	<b>K-3: Structural design Engineer (PC)</b>
2.	<b>Name of Staff</b>	:	<b>Amit Ralkar</b>
3.	<b>Date of Birth</b>	:	12.01.1977
4.	<b>Nationality</b>	:	Indian
			
5.	<b>Education Qualification</b>	:	<ul style="list-style-type: none"> <li>Master of Engineering (Structural Engineering) in 2001 from Pune University</li> <li>Bachelor of Engineering (Civil) in 1998 from Walchand college of Engineering, Sangli</li> </ul>
<b>Contact Address with Phone and mobile numbers</b>		:	C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-40887777
6.	<b>Membership of Professional Societies</b>	:	Member; Indian Institution of Bridge Engineers
7.	<b>Publications</b>	:	<ul style="list-style-type: none"> <li>Journal on Cyclic Pile Load Test on large diameter pile - A case study.</li> <li>Co-author on paper presented at 3rd fib international congress - 2010 on "Long Elevated Road of 2.385 Km length over existing main road, crossing ten junctions at Lalbaug in Mumbai, India.</li> </ul>
8.	<b>Employment Record</b>	:	
	<b>August 1999</b>	:	To till date
	<b>Employer</b>	:	STUP Consultants Pvt. Ltd.
	<b>Position held</b>	:	Senior Consultant (Bridges)
<b>List of projects on which the Personnel has worked:</b>			

<b>Name of Assignment / Project</b>	Consultancy Services for Authority's Engineer for Supervision of Rehabilitation and upgradation to 2 lane with paved shoulder/ 4-lane standards of National Highway section (i) Satara - Koregaon - Mhaswad section of NH-548C (Length - 85.686 km) & Section (ii) Mhaswad - Tembhurni section of NH-548 C (Length - 57.678 km) on EPC Mode (Package 37)
<b>Period</b>	August 2017 - Ongoing
<b>Name of Client</b>	MoRTH / MSRDC
<b>Project Brief</b>	<b>Length: 143.364 Kms; Project Cost: 932.54 Crores</b>
<b>Position Held</b>	Bridge Design Specialist
<b>Activities performed</b>	As a Bridge Design Specialist Shall be responsible for checking the designs of bridges, ROBs, interchanges and any other structure to be constructed in the Project highway, Shall review the rehabilitation measures to be proposed by the Concessionaire for existing structures based on site condition and structural



*Amit Ralkar*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



	requirement basis, Develop QAP and implementation plan for all field studies related to bridges and structures, Review Finalize data formats and requirement of relevant studies, Review Collect, compile and develop bridge & structure related data bank, Review bridge inventory and condition survey, Review hydrological survey and data analysis, Review data analysis and select parameters for bridge design, Checking & approving of pre-camber calculations for casting yard, Review of design/ drawings for POT/PTFE bearings, strip seal expansion joints, temporary bar prestressing, bar bending schedules, Select rehabilitation and construction alternatives based on techno-economic consideration, Review GAD and interact with client / concerned authorities towards finalization, Review Design bridges, cross-drainage structures, retaining walls etc., Review Working drawings, documents and report related to structures, Review time schedule and manage resources
--	--

<b>Name of Assignment / Project</b>	<b>Consultancy Services For Authority's Engineer For Supervision Of Rehabilitation And Up-Gradation To 2 Lane With Paved Shoulder / 4 Lane Standards Of National Highway Section Section (I) Pandhrpur To Sangola Section Of Nh-965c (Length - 34.358 Km) Section (ii) Sangola To Kurudwadi Section Of Nh-965c (Length - 48.375 Km) Section (iii) Mhaswad - Pilov - Pandarpur Section Of Nh-548e (Length - 53.08 Km) On EPC Basis (Package 39)</b>
<b>Period</b>	August 2017 - Ongoing
<b>Name of Client</b>	MoRTH / MSRDC
<b>Project Brief</b>	<b><u>Length: 135.81 Kms; Project Cost: 713.171 Crores</u></b>
<b>Position Held</b>	Bridge Design Specialist
<b>Activities performed</b>	As a Bridge Design Specialist Shall be responsible for checking the designs of bridges, ROB, interchanges and any other structure to be constructed in the Project highway, Shall review the rehabilitation measures to be proposed by the Concessionaire for existing structures based on site condition and structural requirement basis, Develop QAP and implementation plan for all field studies related to bridges and structures, Review Finalize data formats and requirement of relevant studies, Review Collect, compile and develop bridge & structure related data bank, Review bridge inventory and condition survey, Review hydrological survey and data analysis, Review data analysis and select parameters for bridge design, Checking & approving of pre-camber calculations for casting yard, Review of design/ drawings for POT/PTFE bearings, strip seal expansion joints, temporary bar prestressing, bar bending schedules, Select rehabilitation and construction alternatives based on techno-economic consideration, Review GAD and interact with client / concerned authorities towards finalization, Review Design bridges, cross-drainage structures, retaining walls etc., Review Working drawings, documents and report related to structures, Review time schedule and manage resources

<b>Name of Assignment / Project</b>	<b>Project Management Consultancy Services for Feasibility Study and preparation of Detailed Project Report for Construction of Major Bridge across Thane Creek (TCB III) on Sion- Panvel Road in the State of Maharashtra under EPC.</b>
<b>Period</b>	March 2016 - November 2018
<b>Name of Client</b>	MSRDC Ltd.
<b>Project Brief</b>	Construction of Major Bridge across Thane Creek (TCB III) on Sion- Panvel Road; <b><u>Project length: Approx. 2.000 kms; Project cost: INR 355 crore.</u></b> The Span arrangement proposed for the bridge is as under:- <b>Type 1:= 4 units of (53.5+107+107+ 53.5) m Balance Cantiliver</b> <b>Type 2 = 1 unit of ( 55.43+103.3+107.1+80.8) m Balance cantiliver</b>
<b>Position Held</b>	Sr. Bridge Structural Engineer



Chief Engineer  
Engineering Division  
M.M.R.D.A.





<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the monitoring of the field surveys & geotechnical investigations; detailed engineering design of foundations, sub structure & super structure of the bridge.
<b>Name of Assignment / Project</b>	<b>Post - Tender Consultancy services for the work of "Design and Construction of bridge connecting Keri to Tiracol including approaches."</b>
<b>Period</b>	March 2014 - 2015
<b>Name of Client</b>	MVR Infra (GSIDC)
<b>Project Brief</b>	The project pertains to the detailed engineering design for a cable stayed bridge at an <b>estimated cost of Rs.76.77 crore</b> between Tiracol and Kerim, effectively ending Tiracol's independence from mainland Goa for centuries. The proposed span arrangement for the bridge is as under:- <b>Type 1= 5 x33m ( Curved PSC BOX Girder)</b> <b>Type 2= 30 m ( PSC BOX Girder)</b> <b>Type 3= 70m+210m+70m (cable stayed bridge)</b>
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the monitoring of the field surveys & geotechnical investigations; detailed engineering design of foundations, sub structure & super structure of the bridge.
<b>Name of Assignment / Project</b>	<b>Post - Tender Consultancy services for the work of "Widening and Improvement of Naigaon - Juichandra - Bopane Road SH-41 from NH-8 to Naigaon Railway Station and Construction of creek Bridge and ROB along with approaches at Naigaon Railway Station.</b>
<b>Period</b>	March 2013 - December 2014
<b>Name of Client</b>	Simplex Infrastructures Ltd.
<b>Project Brief</b>	The project pertains to the detailed engineering design for "Widening and Improvement of Naigaon - Juichandra - Bopane Road SH-41 from NH-8 to Naigaon Railway Station and Construction of creek Bridge and ROB along with approaches at Naigaon Railway Station. The proposed span arrangement for the bridge is as under:- <b>Type 1= 8 x35m (PSC I Girder)</b> <b>Type 2= 2 x35 m ( PSC BOX Girder)</b> <b>Type 3= 1 x16.3 m ( PSC I Girder)</b> <b>Type 4= 2 x37.2 m (Steel Composite Girder)</b> <b>Type 5= 15.3 m (Solid Slab)</b> <b>Type 6= 5 x35 m (PSC I Girder)</b> <b>Type 7= 20 m (Solid Slab)</b> <b>Type 8= 5 x35 m (PSC I Girder)</b> <b>The estimated cost of the project is Rs. 85.12 Crores.</b>
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the Detailed Engineering Design for all the components of the project and getting approval for the GADs from the concerned relevant authorities.
<b>Name of Assignment / Project</b>	<b>Detailed Engineering Design &amp; Project Management Services for the work of Construction of Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km. 0/000 to 2/500.</b>



*blu*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





Period	October 2010 – September 2013
Name of Client	MMRDA
Project Brief	<p>The project pertains to the detailed engineering design for 4 lane divided carriageway for the Eastern Freeway from Panjarpole junction to CMLR admeasuring an approx. length of 2.109 kms. The total length of the structural ramps is 1.602 kms and the total length of the solid ramps is about 0.35 Kms. <b>Project Cost: Rs. 319.89 Crores</b></p> <p>The Types of Foundation for the project is 119 nos. pile foundations &amp; 12 nos. open foundations. The type of sub structure is RCC Solid pier and Pier cap with M60 grade of concrete. The types of superstructure is Segmental construction (M60) for a length of 1510 m; T girder (M60) for a length of 981 m; &amp; Steel composite superstructure for a length of 198 m &amp; cast in situ integral super structure for a length of 160 m.</p> <p>The span arrangement for the elevated corridor is as under:-          Type 1 = Typical 30m x3 (Continuous Segmental Box Girder), 25m (PSC Box Girder)          Type 2 = 44m ,40m &amp; 38m ( Steel composite girder)</p>
Position Held	Sr. Bridge Structural Engineer
Activities performed	As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

Name of Assignment / Project	<b>Detailed Engineering Design for the Construction of Eastern Freeway from Prince of Wales Museum to Anik Junction (start of APLR) in Mumbai</b>
Period	July 2009 – December 2010
Name of Client	Simplex Infrastructure Ltd.
Project Brief	<p>The project envisages the detailed engineering design for New Four Lane elevated corridor of approx. 9 Kms and Improvement of Existing road of about 2.2Kms. <b>Project Cost: Rs. 585.00 Crores</b></p> <p>The project comprises of PSC segmental standard spans of 26 m; &amp; obligatory span length of 35 m</p>
Position Held	Sr. Bridge Structural Engineer
Activities performed	As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

Name of Assignment / Project	<b>Feasibility Study, Detailed Project Report and Bid Process Management for Integrated Road Development Project in Chandrapur City (2 lane to 4 lane, 59 kms) (project to be implemented on PPP mode on BOOT basis.</b>
Period	February 2009 – October 2009
Name of Client	MUIDC, Chandrapur



Chief Engineer  
Engineering Division  
M.M.R.D.A.



<b>Project Brief</b>	The Chandrapur Municipal Council, Chandrapur, Maharashtra is contemplating Integrated Road Development Project in the city of Chandrapur in PPP Mode on BOOT basis. The Maharashtra Urban Infrastructure Development Company Ltd has been entrusted with Project Management of the project. The project involves construction of and improvements to total of 71 road stretches amounting to about 59 Kms. This includes preparation of Feasibility Study, Detailed Project Report including and Environmental Impact study and Bid Process Management.
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Part Design &amp; Construction of Viaduct (Ch. KM 13.391 to KM Ch. 20.0696) excluding viaducts at stations namely Jasola, Mohan Estate, Tughlakabad and Badarpur each of length 135m, including Entry and Exit connection to Depot &amp; including Sarita Vihar Metro station on Central Secretariat – Badarpur Corridor of Delhi MRTS-Contract No: – BC-26. Project Cost Rs. 158.477 Crores</b>
<b>Period</b>	February 2008 – March 2009
<b>Name of Client</b>	DMRC-IDEB-SUCGJV – Joint Venture, New Delhi
<b>Project Brief</b>	The Central Secretariat - Badarpur corridor of Delhi MRTS is an elevated viaduct of length 6.679km with one elevated station at Sarita Vihar and Entry & Exit connection to Sarita Vihar Depot. There are as many as 188 spans of different lengths arranged all through the viaduct with the span length ranging from 19m to 37m. The superstructure system in the viaduct is of precast prestressed type and cast-in-situ prestressed types at depot. The piers supporting the superstructures are either circular or elliptical and owing to the eccentricity of the centre line of alignment with the centre line of piers, the piers are categorized as concentric, cantilever and portal piers. The maximum eccentricity is constrained to 2m for cantilever piers. The type of foundation adopted in viaduct portion is pile foundation (Bored cast-in-situ piles of diameter 1000) and open foundation. The elevated station is located at Sarita Vihar. At this station there are two floor levels, namely the Concourse level and the Platform level. The spans are RCC cast –in-situ. The columns supporting the structure are circular, rectangular or half elliptical. The foundation adopted is open foundation type.
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	Involved in detailed engineering design of the substructure. This includes design of pier for various heights. Also responsible for design of piles and pile caps for various combinations. The superstructure was also checked for erection loads as well as for rail loads. Involved in detailed quantity calculations, preparations of BOQ, preparation of Design methodology as well as development of construction scheme.



**Name of Assignment / Project**

**Preparation of Detailed Project Reports and Engineering Design Consultancy for Improvement, Operation and Maintenance including Strengthening and Widening of Existing 2-Lane Road to 4-Lane Dual Carriageway from Km 50.000 to Km 100.000 of NH-6 (Kondhali-Talegaon Section) in the State of Maharashtra on Build, Operate and Transfer (BOT) basis.**

*(Signature)*  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.



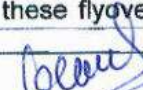


<b>Period</b>	September 2006 – March 2008
<b>Name of Client</b>	Oriental Structural Engineers P. Ltd.
<b>Project Brief</b>	The project road starts at Km.50.000 after Kondhali Town and ends at Km.100.000 after Talegaon Town. In this stretch of 50 Kms., there are 15 Minor Bridges, 17 Slab Culverts and some 47 nos. of Pipe Culverts are existing on the present 2 lane highway. All these structures are to be suitably widened to 4 lanes to 6 lanes facilities. In addition, the following new structures have been proposed on the highway:- Flyovers at Km. 98.300, 5 Nos. of cattle crossings. (Culverts converted to Drainage cum Cattle crossings), 2 no.s of pedestrian underpasses (Locations to be fixed in consultation with IC).
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Proposed six lanes cable stayed bridge at Nagpur Railway station near Santra Market. Project Cost Rs. 46.00 Crores</b>
<b>Period</b>	January 2007 – February 2008
<b>Name of Client</b>	AFCONS
<b>Project Brief</b>	The project work comprises of construction of Cable Stayed bridge with span arrangement of 111.8m + 88.2m and viaduct with spans 28 + 28 on Jaystambh end and 15.121 + 15.121 + 30 + 6 x 25 on Bhandara end. The total length of bridge including approaches is 606.742m. The superstructure proposed for cable stayed portion is concrete deck with edge girders and that for viaduct spans is PSC/RCC box girders. The substructure for cable stayed portion is solid diamond shaped pylon with piles and for viaduct portion hollow circular piers with open foundation.
<b>Position Held</b>	Senior Design Engineer
<b>Activities performed</b>	As Senior Design Engineer, responsible for design review including design philosophy and arithmetic check for simply supported PSC and RCC Box girders, open foundations, pier and pier cap.

<b>Name of Assignment / Project</b>	<b>Consultancy Services for Detailed Engineering Design for Highway Package: Thrissur – Angamali – Edapalli Section of NH-47 (Km.270 – 342) in Kerala State on BOT Basis.</b>
<b>Period</b>	December 2005 – December 2006
<b>Name of Client</b>	Guruvayoor Infrastructure Private Limited
<b>Project Brief</b>	This project consists of widening of existing 2/4 lane highway to 4/6 lane divided carriageway commencing from km.270.000, (starting at 1.6km. Bypass Road) at Thrissur and extend upto 316.000Km near Angamali on NH-47. Project length as measured is 40km. In addition to this, service roads have been proposed along the project road for about 27km. of length of the corridor. In project corridor, there are numerous structures, cross-drainage structures etc., 41 nos. of slab culverts, 50 nos. of box culverts and 9 nos. of pipe culverts exist. There are 6 nos. of bridges, 3 major and 3 minor bridges (Out of which 2 nos. are skew bridges with more than 15 degrees), which are required to be repaired and rehabilitated & widened. The proposal also contains new structures like 5 flyovers and 2 nos. of underpasses and all these flyovers and underpasses have to be designed for 6



  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



	lane carriageway. The proposal contains 1 no. of Toll Plaza with 6 + 6 lane at km.278.000. Apart from this, the proposal consists of a flyover at Aluva Junction (km.330.450 – km.331.305), Junction Improvements at Cochin Airport (km.324.245 – 324.716) and Curve improvements near Marthandavarma bridge (km.329.200 – 330.070). An ROB has already been constructed for which approach has to be provided (km.320.090) on NH-47.
<b>Position Held</b>	Sr. Bridge Structural Engineer
<b>Activities performed</b>	As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Consultancy services for Flyover at Ananda Rao Circle, Bangalore</b>
<b>Period</b>	June 2004 – November 2005
<b>Name of Client</b>	Bangalore Development Authority
<b>Project Brief</b>	Total length of the flyover is about 805m. Width of flyover is 17.5m (5 - lane) at Khoday's circle end and diverges into one 7.5m width 2 lane arm towards racecourse road and one 14m width 4 lane arm towards Maharani College intersection at Ananda Rao circle. It has obligatory spans, one at Ananda Rao circle with a span length of 40m and two nos. at Subbanna circle with a span length of 24.5m other spans are about 33m span x 15 Nos. (Standard span) superstructures proposed to be of precast post-tensioned box with segmental construction. Other spans are with post tensioned box with cast-in-situ construction. Substructure consists of single aesthetically treated piers with pile foundations with a pile of 1m diameter. Approaches are provided reinforced earth structure. Instrumentation has been done for this flyover to measure deflections, pile settlement, earth pressure on RE wall, inclinations of RE walls, Expansions/contraction of superstructure, beam loads, pre-stressed force, temperature variation across the depth, stress in superstructure, etc.
<b>Position Held</b>	Bridge Structural Engineer
<b>Activities performed</b>	As a Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Cable stayed Bridge across Aldona river, Goa - (2 Laned Cable Stayed Bridge); Project Cost Rs. 23.77 Crores</b>
<b>Period</b>	February 2003 – September 2004
<b>Name of Client</b>	AFCONS Infrastructure Ltd. Mumbai / GSIDC, Goa
<b>Project Brief</b>	The project involves detailed engineering design for 235 m long 2 lane cable stayed bridge with main span 105m and single pylon of 34 m high (from deck) designed for class 70 R loading with seismic and aerodynamic effects. The pylons are in concrete and the stiffening girder is in composite with Steel I – girders and concrete deck.
<b>Position Held</b>	Bridge Structural Engineer
<b>Activities performed</b>	As a Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various



Chief Engineer  
Engineering Division  
M.M.R.D.A.



	acting agencies involved in the project.
<b>Name of Assignment / Project</b>	<b>Consultancy Services for Flyover on Varachha Road</b>
<b>Period</b>	March 2001 – January 2003
<b>Name of Client</b>	Surat Municipal Corporation
<b>Project Brief</b>	The project involves the detailed engineering design for the Varachha flyover over existing road with clearance of 5.0m below pier cap for most of the length. The total length of flyover is 2725m including 211m long approaches. The decking consists of 2 nos. single cell RCC box girders, each carrying 2-lane traffic. The sub structure comprises of single column pier with cantilevering pier cap supporting both the girders. The foundations are of open type resting on soil with SBC of 20 t/m <sup>2</sup> (net) at an average depth of 4.0m. Two carriage-ways are separated by 0.5 m wide central verge and have 0.5m wide anti crash barriers at outer edges.
<b>Position Held</b>	Bridge Structural Engineer
<b>Activities performed</b>	As a Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Preparation of detailed project report for the rehabilitation and reconstruction of 16 nos. RCC bridges at different locations on existing road network in Tripura.</b>
<b>Period</b>	September 2000 – October 2001
<b>Name of Client</b>	Public Works Department, Tripura
<b>Project Brief</b>	The Public Works Department, Govt. of Tripura has taken up the work of developing a good road network to meet the infrastructure needs of the state and to establish a good communication. A good road network implicitly needs good bridges. At present a major part of the river crossings in the road network are either semi permanent timber bridges or non-motorable, and to be crossed by foot or by small boats. Tripura PWD has undertaken the work of construction of permanent bridges at different part of the state in phase wise manner and for this they have engaged M/s STUP Consultants P. Ltd. for the reparation of preliminary as well as the detailed project report of the bridges prior to the construction of the same. The span of the bridges varies from 25m to 45m (Out of which 4 nos. are skew bridges with more than 15 degrees ) and the types of the bridges are RCC T girder, RCC box girder, PSC T girder and PSC box girder bridges. The foundations of the bridges are either well foundation Of 6m to 8m diameter and pile foundation of 1.2m diameter.
<b>Position Held</b>	Bridge Structural Engineer
<b>Activities performed</b>	As a Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

<b>Name of Assignment / Project</b>	<b>Construction of Major Bridge across Patalganga River and R.O.B. near village Kharpada on NH 17 on BOT basis (with toll rights).</b>
<b>Period</b>	August 1999 – October 2000



*blue*  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.





Name of Client	M/s. Ideal Road Builders Limited
Project Brief	The project comprises of Two lane wide high level bridge with 1.5 m. wide footpaths on either side to cross Patalganga river - 194.50 m. Two lane wide R.O.B. and subway 80.0 m. A viaduct on either side 538.50 m. Earthen approaches on both sides including new link for Kharpada Savarali Road - 1057.0 m. The project also includes a toll plaza and construction of toll booths for collection of tolls on one side, where the road will be wider and six booths shall be provided for toll collection.
Position Held	Bridge Structural Engineer
Activities performed	As a Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.

Languages	:	Language	Speaking	Reading	Writing
		English	Excellent	Excellent	Excellent
Marathi	Excellent	Excellent	Excellent		
Hindi	Excellent	Excellent	Excellent		

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		<i>A. D. Ralkar</i>
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		<i>[Signature]</i>
Place :		Navi Mumbai
Date :		24.11.2020



*[Signature]*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



# UNIVERSITY OF PUNE



Date : 26 APRIL 2002

College : G.C.O.E.P., PUNE 5

Seat No. : 31

Permanent Reg. No. : 9120000011

This is to certify that

Shri/Smt. RALKAR AMIT DATTATRAY

Passed the MASTER OF ENGINEERING examination held by

CIVIL (STRUCTURAL ENGINEERING) UNIVERSITY OF PUNE in the month of DECEMBER 2001

and was placed in FIRST CLASS WITH DISTINCTION

CONTROLLER OF EXAMINATIONS

0177553



*Beas*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.







# UNIVERSITY OF PUNE

246

GANESHKHIND, PUNE 411 007. NO.: 02- 0001029

STATEMENT OF MARKS FOR MASTER OF ENGINEERING (by papers) (Revised 1994)  
BRANCH : A01 CIVIL (STRUCTURAL ENGINEERING)

SEAT NO. 31 CENTRE 001 PERM REG. NO. 9120000011

NAME RALKAR AMIT DATTATRAY

COLLEGE 001 G.C.O.E.P., PUNE 5

YEAR : DECEMBER 2001

SEMESTER	COURSE NAME	MARKS			
		MAX.	MIN.	OBT.	
1	101 ENGINEERING MATHEMATICS	100	40	P	41
	102 STRUCTURAL MECHANICS	100	40	P	67
	103 REINFORCED & PRESTRESSED CONCRETE STRUCTURE	100	40	P	58
	104 THEORY OF PLATES AND SHELLS	100	40	P	68
	105 LAB.PRACTICE - I (T.W.)	50	20	P	35
	TOTAL	450	225		269
2	201 FINITE ELEMENT METHOD	100	40	P	67
	202 STRUCTURAL DYNAMICS	100	40	P	76
	203 METAL STRUCTURES & COMPOSITES	100	40	P	48
	213 # BRIDGE ENGINEERING	100	40	P	67
	223 # EARTHQUAKE ENGINEERING	100	40	P	79
	231 LAB. PRACTICE II (T.W.)	50	20	P	42
	232 SEMINAR I (T.W.)	50	20	P	38
	TOTAL	600	300		417
3	301 SEMINAR II (T.W.)	50	20	*	41
	302 DISSERTATION (T.W.)	200	80	*	175
	303 DISSERTATION (ORAL)	100	40	*	79
	TOTAL	350	175		295
	GRAND TOTAL	1400	700		981

FIRST CLASS WITH DISTINCTION

\* \* CONGRATULATIONS \* \*

# - Elective NA - Not appeared  
\* - Appearing P - Previous \$ - Ordinance



CONTROLLER OF EXAMINATIONS

STATEMENT NO. *llw*

DATE 26 APRIL 2002

NOTE: MAX - MAXIMUM MARKS, MIN - MINIMUM FOR PASS, OBT - MARKS OBTAINED, AA - ABSENT

PP - PAPER, TW - TERMWORK, OR - ORAL, P - PASS, F - FAIL, C - PREVIOUS CARRY OVER

AWARD OF CLASS: FIRST CLASS WITH DISTINCTION - 70% FIRST CLASS - 80% HIGHER SECOND CLASS - 55% SECOND CLASS - 50%

Chief Engineer

Engineering Division

M.M.R.D.A.



**WE** the Chancellor, Vice-Chancellor and Members of the Management Council, on the recommendation of the Academic Council of the Shivaji University,

certify  that the withinsigned

Amit Dattatray Ralkar  
of the Walchand College of Engineering

having been examined for the Degree of Bachelor of Engineering, and on being adjudged to have passed the Examination in First Class with Distinction, in April 1998, the Degree of

## Bachelor of Engineering

( CIVIL )

has been conferred on him at Kolhapur, on the sixth day of the month of February in the year one thousand nine hundred and ninety-nine.

In Testimony whereof are set the Seal of the University and the Signatures of the Registrar and the Vice Chancellor.





[Signature]  
Ag. Registrar.

Chief Engineer  
Engineering Division  
M.M.R.D.A.



[Signature]  
Vice Chancellor

**भारतीय विभिन्न आरक्षण प्राधिकरण**


**भारत सरकार**  
**Unique Identification Authority of India**  
**Government of India**

नोंदविण्याचा क्रमांक / Enrollment No 1218/16019/03256


To,  
 अमित दत्तात्रय राऊकर  
 Amit Dattatray Raikar  
 105, Chhadva Park, plot no. 32  
 Sector 14, Navi Mumbai  
 Koper Khairne S.O  
 Thane  
 Maharashtra 400709  
 9223533864

12/08/2011

Ref. 454 / 01C / 737396 / 737938 / P



UE118762835IN




**आपला आधार क्रमांक / Your Aadhaar No. :**

8821 8303 5729


**आधार — सामान्य माणसाचा अधिकार**

---



भारत सरकार

GOVERNMENT OF INDIA




अमित दत्तात्रय राऊकर

Amit Dattatray Raikar

जन्म वर्ष / Year of Birth : 1977

पुरुष / Male



8821 8303 5729

आधार — सामान्य माणसाचा अधिकार



(Signature)

Chief Engineer  
Engineering Division  
M.M.R.D.A.





Date: 05.02.2020

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Amit Ralkar is working with STUP Consultants Pvt. Ltd. from August 1999 - till date. Further to the earlier experience certificate issued to him dated 20.04.2017, he has further rendered services on the following assignments:

Name of Assignment	Period	Position Held
Authority's Engineer on EPC Mode for Package - 15 from km. 636.479 to km. 664.479 (Section: Village Vashala Bk. to Village Birwadi) of Nagpur Mumbai Super Communication Expressway <i>Client: Maharashtra State Road Development Corporation Ltd</i>	1 <sup>st</sup> January 2019 - In Progress	Bridge/Structural Design Engineer
Authority's Engineer for Consultancy services for Authority's Engineer for Supervision of Rehabilitation and upgradation to 2 lane with paved shoulder/ 4-lane standards of National Highway section (i) Satara - Koregaon - Mhaswad section of NH-548C (Length - 85.686 km) & Section (ii) Mhaswad - Termbhumi section of NH-548 C (Length - 57.678 km) on EPC Mode <i>Client: MSRDC / MORTH</i>	September 2017 - 15 <sup>th</sup> January 2020	Bridge Design Specialist
Authority's Engineer For Supervision of rehabilitation and upgradation to 2 lane with paved shoulder / 4 lane standards of National Highway section (i) Pandhrpur to Sangola section of NH-965C (Length - 34.358 km) section (ii) Sangola to Kurudwadi section of NH-965C (Length - 48.375 km) section (iii) Mhaswad - Pilov - Pandarpur section of NH-548E (Length - 53.08 km) On EPC Basis <i>Client: MSRDC / MORTH</i>	September 2017 - 15 <sup>th</sup> January 2020	Bridge Design Specialist

For STUP Consultants Pvt. Ltd

**MANAGER-HRD**

*Shilpa Pawar*  
**STUP CONSULTANTS PVT. LTD.**  
 PLOT NO. 22-A, SECTOR-19-C,  
**SHILPA PAWAR** PALM BEACH MARG, VASHI.  
 Manager (Human Resources)

Issued for uploading on Infracore


Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
 Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navimumbai@stupmail.com

Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
 Tel.: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com

Ahmedabad • Bengaluru • Chennai • Guwahati • Hyderabad • Kolkata • Mumbai • Navi Mumbai • New Delhi • Pune • Muscat • Paris • Los Angeles • Dhaka



*buy*  
 Chief Engineer  
 Engineering Division



# STUP Consultants Pvt. Ltd.

Sustainable Design of Infrastructure & Real Estate through Innovation

50 Decades

20<sup>th</sup> April 2017

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Amit Ralkar is working with this organization as Senior Bridge Design Engineer from August 1999 to till date on various highways / bridge projects. Some of the important projects undertaken by him are:

- **Project Management Consultancy Services for Feasibility Study and preparation of Detailed Project Report for Construction of Major Bridge across Thane Creek (TCB III) on Slon- Panvel Road in the State of Maharashtra under EPC. Client: MSRDC Ltd.**
- **Post – Tender Consultancy services for the work of “Design and Construction of bridge connecting Kerl to Tiracol including approaches.” Client: MVR Infra (GSIDC).**
- **Post – Tender Consultancy services for the work of “Widening and Improvement of Naigaon – Juichandra – Bopane Road SH-41 from NH-8 to Naigaon Railway Station and Construction of creek Bridge and ROB along with approaches at Naigaon Railway Station. Client: Simplex Infrastructures Ltd.**
- **Detailed Engineering Design & Project Management Services for the work of Construction of Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km. 0/000 to 2/500. Client: MMRDA**
- **Detailed Engineering Design for the Construction of Eastern Freeway from Prince of Wales Museum to Anik Junction (start of APLR) in Mumbai. Client: Simplex Infrastructure Ltd.**
- **Feasibility study, Detailed Project Report and Bid Process Management for Integrated Road Development Project in Chandrapur City (2 lane to 4 lane, 59 kms)(project to be implemented on PPP mode on BOOT basis. Client: MUIDC, Chandrapur**
- **Part Design & Construction of Viaduct (Ch. KM 13.391 to KM Ch. 20.0696) excluding viaducts at stations namely Jasola, Mohan Estate, Tughlakabad and Badarpur each of length 135m, including Entry and Exit connection to Depot & including Sarita Vihar Metro station on Central Secretariat – Badarpur Corridor of Delhi MRTS-Contract No: – BC-26. Client: DMRC-IDEB-SUCGJV – Joint Venture, New Delhi.**
- **Preparation of Detailed Project Reports and Engineering Design Consultancy for Improvement, Operation and Maintenance including Strengthening and Widening of Existing 2-Lane Road to 4-Lane Dual Carriageway from Km 50.000 to Km 100.000 of NH-6 (Kondhail-Talegaon Section) in the State of Maharashtra on Build, Operate and Transfer (BOT) basis. Client: Oriental Structural Engineers P. Ltd.**
- **Proposed six lanes cable stayed bridge at Nagpur Railway station near Santra Market. Client: AFCONS Infrastructure Ltd. Mumbai.**



*aw*  
**Chief Engineer**  
 Engineering Division

Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
 Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navimumbai@stupmail.com



Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
 Tel.: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com

- 2 -

- **Consultancy Services for Detailed Engineering Design for Highway Package: Thrissur – Angamali – Edapalli Section of NH-47 (Km.270 – 342) in Kerala State on BOT Basis. Client: Guruvayoor Infrastructure Private Limited.**
- **Consultancy services for Flyover at Ananda Rao Circle, Bangalore. Client: Bangalore Development Authority**
- **Cable stayed Bridge across Aldona river, Goa - (2 Laned Cable Stayed Bridge). Client: AFCONS Infrastructure Ltd. Mumbai / GSIDC, Goa.**
- **Consultancy Services for Flyover on Varachha Road. Client: Surat Municipal Corporation**
- **Preparation of detailed project report for the rehabilitation and reconstruction of 16 nos. RCC bridges at different locations on existing road network in Tripura. Client: Public Works Department, Tripura.**
- **Construction of Major Bridge across Patalganga River and R.O.B. near village Kharpada on NH 17 on BOT basis (with toll rights). Client: M/s. Ideal Road Builders Limited.**

This experience certificate is issued on the request of various clients.

For STUP Consultants Pvt. Ltd.

  
A D Joshi  
Executive Vice President



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





Curriculum Vitae (CV) for Proposed Key Staff	
1. Proposed Position	: K-4: Structural Design Engineer (Steel)
2. Name of Staff	: Devdatta Chandarshekar Athavale
3. Date of Birth	: 22.02.1976
4. Nationality	: Indian
5. Education Qualification	: <ul style="list-style-type: none"> <li>• M. Tech (Structures), Vevesvaraya National Institute of Technology - 2003</li> <li>• B.E. (Civil) - Nagpur University - 1998</li> </ul>
Contact Address with Phone and mobile numbers	: C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-4088 7777
6. Employment Record	:
From May 2012	: To till date
Employer	: STUP Consultants Pvt. Ltd.
Position held	: Senior Consultant
From April 2012	: May 2012
Employer	: Gammon India Ltd.
Position held	: Senior Manager (Design)
From December 1999	: April 2012
Employer	: STUP Consultants Pvt. Ltd.
Position held	: Senior Consultant
List of projects on which the Personnel has worked:	



Name of Assignment / Project	: Detailed Design for Civil, Architectural and Building Services including E&M Works for Elevated Metro Rail Stations – 6 Nos. Including Viaduct Portion within the Station and Transition Spans on either side of the Stations (Thaltej Gam, Thaltej, Doordarshan Kendra, Gurukul road, Gujarat University, Commerce Six Road, Stadium) on East - West Corridor on Reach-2 (Western Reach)
Period	: Jan 2016 - Till date
Name of Client	: Metro-Link Express for Gandhinagar & Ahmadabad (MEGA) Company Ltd. Out of 20.536 Km of East – West Corridor of Ahmedabad Metro Rail, this project involves the Detailed Design of 4 Nos. Elevated Metro Stations namely
Project Brief	: <ol style="list-style-type: none"> <li>1. Thaltej Gam</li> <li>2. Thaltej</li> <li>3. Doordarshan Kendra</li> <li>4. Gurukul Road</li> </ol> <p>The project comprises of PSC segmental standard spans of 31 m; &amp; other spans in multiple of 3 m, of maximum span length of 37 m &amp; minimum span length of 22 m with various curved / skew spans.</p>
Position Held	: Structural Design Engineer
Activities performed	: Involved in for the Detail Design of Viaduct and Station Building; Preparation



Chief Engineer  
Engineering Division  
M.P.D.A.



	of Bar Bending Schedule; Preparation of Launching Scheme; and Assisting the Team Leader in the finalization of construction methodology and Quality Assurance aspects of the work during construction
<b>Name of Assignment / Project</b>	: <b>Contract CC-24 of DMRC: Design &amp; Construction of Tunnel by shield TBM, Tunnels, Stations and Ramp by Cut &amp; Cover method between Lajpat Nagar and Hazrat Nizamuddin Stations (both including) for underground works on Mukundpur - Yamuna Vihar corridor of Delhi MRTS Project of Phase-III by the Delhi Metro Rail Corporation Limited.</b>
<b>Period</b>	: Sep 12- Jun 15
<b>Name of Client</b>	: J. Kumar - CRTG (JV), New Delhi Employer: Delhi Metro Rail Corporation Ltd. (DMRCL)
<b>Project Brief</b>	: The contract comprises of the design and construction of 5.556 kms. of underground stretch for Delhi MRTS project of phase III. The stretch involves the construction of 4 underground tunnels as under:- 1) Lajpat Nagar Station (Length: 265.00 m) 2) Srinivaspuri Station (Length: 243.10 m) 3) Ashram Station (Length: 265.00 m) 4) Hazrat Nizamuddin Station (Length: 265.00 m)  The project also involves the construction of cut & cover tunnel of length of 858.10 m and ramp of length 240.00 m
<b>Position Held</b>	: Structural Design Engineer
<b>Activities performed</b>	: Involved in for the Detail Design of CCT Tunnel and Station Building; Preparation of Bar Bending Schedule; Assisting the Team Leader in the finalization of construction methodology and Quality Assurance aspects of the work during construction
<b>Name of Assignment / Project</b>	: <b>Detailed Engineering Design for the Construction of Eastern Freeway from Prince of Wales Museum to Anik Junction (start of APLR) in Mumbai</b>
<b>Period</b>	: NOV 07 to APR 12
<b>Name of Client</b>	: Simplex Infrastructure Ltd.
<b>Project Brief</b>	: The project envisages the detailed engineering design for New Four Lane elevated corridor of approx. 9 Kms and Improvement of Existing road of about 2.2Kms. The project comprises of PSC segmental standard spans of 26 m; & obligatory span length of 35 m
<b>Position Held</b>	: Sr. Bridge Structural Engineer
<b>Activities performed</b>	: As a Sr. Bridge Structural Engineer has been responsible for the design of various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.
<b>Name of Assignment / Project</b>	: <b>Contract BC-7 of DMRC: Design of elevated viaduct 5.202 Km. Inderlok to Mundka Corridor Phase – 2 and 5 Nos. Elevated Station Building at Inderlok, Ashok Park, Punjabi Bagh, Shivaji Park and Madipur</b>
<b>Period</b>	: July 2006 – June 2011
<b>Name of Client</b>	: IDEB-SUCG JV – Joint Venture, New Delhi Employer: Delhi Metro Rail Corporation Ltd. (DMRCL)
<b>Project Brief</b>	: The Inderlok –Mundka corridor of Delhi MRTS is an elevated viaduct of length 5.225km with five elevated stations. There are as many as 148 spans of different lengths arranged all through the viaduct is comprised of PSC segmental construction with the span length ranging from 16m to 37m. with various curved / skew spans. <b>Also there is a 75m long structural steel superstructure continuous span placed over an existing railway track alongwith two side spans of length 62m.</b> The superstructure system in the viaduct is of precast prestressed type. The piers supporting the superstructures are either circular or elliptical and owing to the eccentricity of the centre line of alignment with the centre line of piers, the



Chief Engineer  
Engineering Division  
M.P.D.A.





	<p>piers are categorized as concentric, cantilever and portal piers. The maximum eccentricity is constrained to 2m for cantilever piers. The type of foundation adopted in viaduct portion is pile foundation with pile diameter fixed to 1.2m. The five elevated stations are located at Inderlok, Ashok Park, Punjabi Bagh East, Shivaji Park &amp; Madipur. At each station there are two floor levels, namely the Concourse level and the Platform level. The spans placed side by side to the platforms are RCC cast –in-situ whereas the ones placed on either sides of the RCC cast-in-situ spans are Precast prestressed. The columns supporting the structure are circular, rectangular or half elliptical. The foundation adopted is pile foundation type and piles used are either of diameters 0.8m or 1.2m.</p>
<b>Position Held</b>	: Structural Design Engineer
<b>Activities performed</b>	: Involved in for the Detail Design of Viaduct and Station Building; Preparation of Bar Bending Schedule; Preparation of Launching Scheme; and Assisting the Team Leader in the finalization of construction methodology and Quality Assurance aspects of the work during construction
<b>Name of Assignment / Project</b>	: <b>Design Consultancy Services for Bridge Over River Mhadei between Usgaon – Pale in Goa, for GIDC</b>
<b>Period</b>	: JAN 06 to NOV 06
<b>Name of Client</b>	: Afcons Infrastructure Limited
<b>Project Brief</b>	: <ul style="list-style-type: none"> <li>Owner: GIDC</li> <li>Total Length: 901.5m incl approached</li> <li>Deck width: 21.0m</li> <li>Carriageway width: 2x 7.25m</li> <li><b>Span arrangement: 25.2+2*62.4+30m</b></li> <li><b>Type of superstructure: 3 nos of Continuous 4 span Steel trusses</b></li> <li>Foundation: Pile foundation</li> <li>Bearings: POT / PTFE</li> <li>Launching: Push launching</li> <li>Appx Steel quantity: 1350 Mt</li> <li>Appx concrete quantity: 3368 cum</li> </ul>
<b>Position Held</b>	: Structural Design Engineer
<b>Activities performed</b>	: Responsible for the detailed engineering design of the bridge, various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.
<b>Name of Assignment / Project</b>	: <b>Detailed Project Report including Detailed Engineering Design consultancy services for the MSRDC project pertaining to "Design &amp; Construction of proposed six lane cable stayed bridge along with approaches in Nagpur railway station yard near Santra Market, Nagpur, In Maharashtra"</b>
<b>Period</b>	: NOV 05 to DEC 06
<b>Name of Client</b>	: Afcons Infrastructure Limited
<b>Project Brief</b>	: <ul style="list-style-type: none"> <li><b>The project work comprises of construction of Cable Stayed bridge with span arrangement of 111.8m + 88.2m and viaduct with spans 28 + 28 on Jaystambh end and 15.121 + 15.121 + 30 + 6 x 25 on Bhandara end. The total length of bridge including approaches is 606.742m.</b> The superstructure proposed for cable stayed portion is concrete deck with edge girders and that for viaduct spans is PSC/RCC box girders. The substructure for cable stayed portion is solid diamond shaped pylon with piles and for viaduct portion hollow circular piers with open foundation.</li> </ul>
<b>Position Held</b>	: Structural Design Engineer
<b>Activities performed</b>	: Responsible for the detailed engineering design of the bridge, various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.
<b>Name of Assignment / Project</b>	: <b>Pre-tender of Sahar elevated road</b>



Chief Engineer  
Engineering Division



<b>Project Period</b>	: JAN 05 to MAR 05
<b>Name of Client</b>	: MMRDA
<b>Project Brief</b>	: It was a elevated road connecting Western express high way and International Airport Mumbai
<b>Position Held</b>	: Design Engineer
<b>Activities performed</b>	: Preliminary design of Box girder, pier cap and pier. Working out Quantities
<b>Name of Assignment / Project</b>	: <b>Design and construction of Suspension bridge at Omkareshwar, Madhya Pradesh</b>
<b>Period</b>	: Feb 04 to Apr 04
<b>Name of Client</b>	: NNDC
<b>Project Brief</b>	: It was a suspension bridge near Omkareshwar in Madhya Pradesh.
<b>Position Held</b>	: Design Engineer
<b>Activities performed</b>	: Proof checking of Truss, Pylons and foundation.
<b>Name of Assignment / Project</b>	: <b>Cable stayed Bridge across Aldona river, Goa - (2 Laned Cable Stayed Bridge)</b>
<b>Period</b>	: Feb 03 – Oct 04
<b>Name of Client</b>	: AFCONS Infrastructure Limited
<b>Project Brief</b>	: <b>The project involves detailed engineering design for 235 m long 2 lane cable stayed bridge with main span 105m and single pylon</b> of 34 m high (from deck) designed for class 70 R loading with seismic and aerodynamic effects. The pylons are in concrete and the stiffening girder is in composite with Steel I – girders and concrete deck.
<b>Position Held</b>	: Structural Design Engineer
<b>Activities performed</b>	: Responsible for the detailed engineering design of the bridge, various structures, scheduling of all field, design and documentation activities, Time schedule and management of Team's resources. Preparation of reports, documents and drawings. Also responsible for co-ordination between various acting agencies involved in the project.
<b>Name of Assignment / Project</b>	: <b>Design and Construction ROB at Vengali, Vengalam, Chengattukau and Nandi Bazar</b>
<b>Period</b>	: <b>Jan 01 to Jul 01</b>
<b>Name of Client</b>	: Bhageeratha Engg Ltd, Kochi, Kerala
<b>Project Brief</b>	: ROB at Vengali consists of three spans over railway tracks of 22.4, 32.4 and 22.4 m respectively. The viaduct on left side is with 3 spans of 22.772 m and on right side with 5 spans of 20.430 m.  The viaduct on either side are connected with spans of 20.87 m on either side of railway span. In addition to this viaduct on left side have 3, 22.772 m spans while viaduct on right side have 5, 20.430 m spans  ROB at Vengalam also has three railway spans of 17.4, 27.4 and 17.4 m while viaduct on left side have 4 nos. 21.675 m spans and same on right side have 5 nos. 18.882 m spans. The connecting spans are 20.87 m each. The railway spans are with PSC box girders and viaduct spans are with RCC box girders. The RCC substructure, with single column is supported on very long piles terminated in hard rock.  The viaduct on either side are connected with spans of 20.87 m on either side of railway span. In addition to this viaduct on left side have 4, 21.675 m spans while viaduct on right side have 5, 18.882 m spans  The approaches are retained with reinforced soil structures with maximum height of 4.5 m at abutment piers.
<b>Position Held</b>	: Assistant Design Engineer
<b>Activities performed</b>	: <b>Design of Box girder, pile cap, piles and piers</b>
<b>Name of Assignment / Project</b>	: <b>Structural Assessment and Repairs to High Court Building at Nagpur</b>




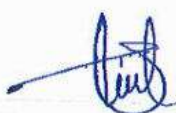
*base*  
Chief Engineer  
Engineering Division




<b>Project Period</b>	: Dec 99 to Oct 00
<b>Name of Client</b>	: Public Works Department, Government of Maharashtra
<b>Project Brief</b>	: The routine maintenance of the building is entrusted to P.W.D., Maharashtra. During a recent inspection, a number of distresses were observed, such as severe leakage in the main entrance dome, leakage through waterproofing of the terrace, leakages in four rooms located over terrace level, deterioration of joints in the parapet walls and stone masonry blocks of the entrance steps, severe spalling of concrete and corrosion of steel in the R.C.C. chhajjas of the building.
<b>Position Held</b>	: Junior Engineer
<b>Activities performed</b>	: It was PMC job and site activities were supervised.

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





**VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY**  
(DEEMED UNIVERSITY)  
NAGPUR 440 011 (INDIA)

*Upon recommendation of the Senate hereby confers degree of  
Master of Technology in Structural Engineering*

*on*

*Deodatta Chandrashekhhar Athavale*

*who has successfully completed the course of study  
as prescribed under the regulations in  
November 2002 in First Division with Distinction*

*Given this day under the seal of  
Visvesvaraya National Institute of Technology  
at Nagpur in the Republic of India.*

**विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान**

(अभिमत विद्यापीठ)

नागपूर - ४४० ०११ (भारत)

देवदत्त चंद्रशेखर आठवले

को एतद्वारा

संरचनात्मक अभियांत्रिकी में प्रौद्योगिकी निष्णात

की उपाधि प्रदान करता है। अभिषद की अनुशंसा पर संस्थान की  
मुद्रांकित यह उपाधि, विधियों में विहित पाठ्यक्रमों को  
नवम्बर २००२ में प्रावीण्य के साथ प्रथम श्रेणी

में सफलता पूर्वक पूर्ण कर लेने पर,  
नागपूर (भारत) में आज दी गई है।

*W. S. D. J. Patil*

अध्यक्ष, अभिषद  
CHIEFMAN SENATE

*R. S. Patil*

अध्यक्ष, सार्वी नगद  
CHIEFMAN BOARD OF GOVERNORS



*W. S. D. J. Patil*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

# Nagpur University



## Bachelor of Engineering (Faculty of Engineering & Technology)

*This degree of  
Bachelor of Engineering is awarded  
to Devdatta Chandrashekhar Athavale  
on having passed the examination for  
the said Degree in Summer 1998 and was  
placed in the First Division in  
Civil Engineering.*

Nagpur  
October 28, 1998

*Jssahani*  
Vice-Chancellor



*bee*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



*Handwritten signature*  
 Chief Engineer  
 Engineering Division  
 M.M.R&D.A.





# STUP Consultants Pvt. Ltd.

Sustainable Design of Infrastructure & Real Estate through Innovation



10<sup>th</sup> April 2017

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. D C Athavale is working with STUP Consultants Pvt. Ltd. as "Senior Design Bridge Engineer" from 2012 to till date on various projects. Some of the important projects undertaken by him are:

- Contract CC-24 of DMRC: Design & Construction of Tunnel by shield TBM, Tunnels, Stations and Ramp by Cut & Cover method between Lajpat Nagar and Hazrat Nizamuddin Stations (both including) for underground works on Mukundpur - Yamuna Vihar corridor of Delhi MRTS Project of Phase-III.  
*Client: Delhi Metro Rail Corporation Ltd*
- Detailed Engineering Design for the Construction of Eastern Freeway from Prince of Wales Museum to Anik Junction (start of APLR) in Mumbai  
*Client: Delhi Metro Rail Corporation Ltd*
- Contract BC-7 of DMRC: Design of elevated viaduct 5.202 Km. Inderlok to Mundka Corridor Phase – 2 and 5 Nos. Elevated Station Building at Inderlok, Ashok Park, Punjabi Bagh, Shivaji Park and Madipur  
*Client: Delhi Metro Rail Corporation Ltd*
- Design Consultancy Services for Bridge Over River Mhadei between Usgaon – Pale in Goa, for GIDC  
*Client: Afcons Infrastructure Limited*
- Design & Construction of proposed six lane cable stayed bridge along with approaches in Nagpur railway station yard near Santra Market, Nagpur, in Maharashtra  
*Client: Afcons Infrastructure Limited*
- Design and construction of Suspension bridge at Omkareshwar, Madhya Pradesh  
*Client: NNDC*
- Cable stayed Bridge across Aldona river, Goa - (2 Laned Cable Stayed Bridge)  
*Client: AFCONS Infrastructure Limited*
- Design and Construction ROB at Vengali, Vengalam, Chengattukau and Nandi Bazar  
*Client: Bhageeratha Engg Ltd, Kochi, Kerala*
- Structural Assessment and Repairs to High Court Building at Nagpur  
*Client: Bhageeratha Engg Ltd, Kochi, Kerala*

This experience certificate is issued on the request of various clients.

For STUP Consultants Pvt. Ltd

  
Sunil Dutt  
Joint Vice President



  
Chief Engineer  
Engineering Division



Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navimumbai@stupmail.com

Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
Tel.: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com



### Curriculum Vitae (CV) for Proposed Key Staff

1.	Proposed Position	:	K-5: Quality Control / Quality Assurance Engineer	
2.	Name of Staff	:	H T Wagh	
3.	Date of Birth	:	19th May, 1965	
4.	Nationality	:	Indian	
5.	Education Qualification	:	<ul style="list-style-type: none"> <li>Bachelor of Engineering (Civil) 1991 from Pune University</li> </ul>	
	Contact Address with Phone and mobile numbers	:	C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-40887777	
6.	Membership of Professional Societies	:	<ul style="list-style-type: none"> <li>Member - Indian Road Congress, Delhi</li> <li>Member: Indian Institute of Engineers</li> </ul>	
7.	Employment Record	:		
	March 1998	:	To till date	
	Employer	:	STUP Consultants Pvt. Ltd.	
	Position held	:	Senior Quality cum Material Expert	
	July 1996	:	February 1998	
	Employer	:	Maharashtra State P.W.D	
	Position held	:	Assistant Engineer (II)	
	October 1991	:	June 1996	
	Employer	:	M/s. Atlanta Construction Co. (India) Ltd	
	Position held	:	Assistant Engineer	
8.	<u>List of projects on which the Personnel has worked:</u>			

Period from: August 2017	Ongoing
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Consultancy Services For Authority's Engineer For Supervision Of Rehabilitation And Up-Gradation To 2 Lane With Paved Shoulder / 4 Lane Standards Of National Highway Section (I) Pandhrpur To Sangola Section Of Nh-965c (Length - 34.358 Km) Section (II) Sangola To Kurudwadi Section Of Nh-965c (Length - 48.375 Km) Section (III) Mhaswad - Pilov - Pandarpur Section Of Nh-548e (Length - 53.08 Km) On EPC Basis (Package 39)</b>
Client for the project	MoRTH / MSRDC
Project Description	<b>Length: 135.81 Kms; Project Cost: 713.171 Crores</b> <b>The project includes the construction of 4 Major Bridges, 35 Minor Bridges</b>



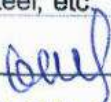




Designation / Position held in Project	Material Engineer
Duties and responsibility of key-personnel in the project	Responsible for supervising all the tests to be done in different stages of construction, besides ensuring that specified tests are done as per codal stipulations and as per the specifications laid down in the contract for all the different stages of construction, Review Set up of field laboratories and training of Field Engineers and the technicians in the testing and reporting procedures; Review Finalized of data formats and requirements for field studies for exploration and selection of construction materials, Review of Collection, compilation and development of data bank for materials and pavements, Scheduling of all field and laboratory testing activities and finalisation of formats, Specifications for pavement materials; Time schedule and management of Material and Pavement Engineering Team's resources, Review and acceptance of Quarry sites for aggregates, quarry spall, sand, borrow material, Review of Precasting yard, rock crushers & bituminous hot mixing plant etc., Review and acceptance of test results for manufactured materials required for road and structure works such as steel, cement, bitumen etc., Maintaining record of all materials at site and review the Contractors' procurement schedule and assist the Team Leader in issuance of Instructions to the Contractors for correcting the same, if deemed necessary; Assist the Team Leader in issuance of Site Instructions for the approval and rejection of materials at source and at site; Review and acceptance of mix design proposals for sub-base, base, and concrete mixes; Maintaining records of all test results and approvals or rejection of completed works; Quality control testing of all materials and completed works and ensuring that all materials and completed works are as per the technical specifications; Verify manufacturers' certificates; Assisting the Team Leader with the preparation of project completion reports; Assisting the Team Leader with Final Inspections of works

Period from: January 2015	July 2017
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Authority's Engineer' for Construction and Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D. (Transit Oriented Development) basis on Engineering Procurement And Construction (EPC) Contract mode (Length 10.300 Km).</b>
Client for the project	Ghaziabad Development Authority
Project Description	Ghaziabad Development Authority (GDA) has undertaken the Construction and Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D.(Transit Oriented Development) basis on (EPC) contract mode. <b>Elevated Road/Flyover - Length 10.30 Kms (Pre-cast segmental construction)</b> <b>Maximum Span Length: 50.047m (Steel Composite) / 46.00m (PSC)</b> <b>Estimated project cost is Rs. 916.92 Crores.</b>
Designation / Position held in Project	<b>Senior Quality cum Material Expert</b>
Duties and responsibility of key-personnel in the project	Responsible for assisting the Team Leader in reviewing Contractor's Work Program, construction methods and adherence to environmental norms and performance of plant, equipment and machinery; Carrying out tests of soil from borrow areas, aggregate from quarry sites, sand, bitumen etc. to ascertain their strength and suitability for use on the project; <b>Inspect Contractor's field laboratories to ensure adequacy of their equipment and capability to perform all the specified testing requirements; Review the Quality Assurance Program of Contractor considering the latest and modern technology</b> and recommend changes considered necessary; Review of test results for manufactured materials required for road and structural works such as bitumen, cement, steel, etc. Review the Contractor's procurement schedule

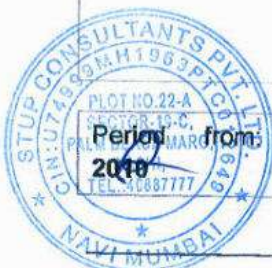


  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



and assist the TL in issuance of instructions to the contractor for correcting the same, if deemed necessary; **Check the setting up of rock crushers and bituminous plants of the Contractor to ensure that the specified requirements for such equipments are fully met;** Review and acceptance of mix design proposals for sub-base, base asphalt and cement concrete mixes; Review Quality control testing of all materials and completed works and ensure that all materials and completed works are as per the technical specifications; Assisting the Team Leader in acceptance and rejection of materials and of completed works; keeping record of results of various tests in a systematic manner; Preparation of reports.

Period from: Jan 2011	December 2014
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Proof Checking &amp; Project Management Consultancy services for the project of "Improvement of Sion – Panvel special State Highway from KM 115+800 TO KM 140+690 (Kalamboli Junction to B.A.R.C Junction)";</b> <b>Project Cost: Rs. Rs 1,705.67 Crore</b>
Client for the project	PWD / Sion Panvel Tollways Ltd.
Project Description	The main scope of the project is to supervise on behalf of the concessionaire as Project Management Consultant. The project involved construction of approximate design length for main carriageway – 23.090 kms including Service Roads – 4.09 Kms.; Proposed Flyovers (3 + 3 lanes) – 3 Nos.; Proposed Flyovers (3 lanes) – 2 Nos.; Proposed ROBs (2 laned) – 2 Nos.; Widening of Major Creek Bridges – 2 Nos.; Widening of existing Minor Bridges – 8 Nos.; Proposed VUPs – 2 Nos.; Widening of existing VUPs – 8 Nos. ; Proposed PUPs – 17 Nos.; Widening of existing PUPs – 1 Nos.; Repairs of existing Underpasses – 8 Nos.; Proposed FOBs – 10 Nos.; Proposed Box Culverts – 61 Nos.; Proposed Pipe Culverts – 5 Nos.; Proposed Toll Plazas – 1 No. ; Widening of existing Box Culverts – 5 Nos.; Remodelling of existing drains to Box Culverts – 61 Nos.
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	Responsible for assisting the Team Leader in reviewing Concessionaire's Work Program, construction methods and adherence to environmental norms and performance of plant, equipment and machinery; Carrying out tests of soil from borrow areas, aggregate from quarry sites, sand, bitumen etc. to ascertain their strength and suitability for use on the project; <b>Inspect Concessionaire's field laboratories to ensure adequacy of their equipment and capability to perform all the specified testing requirements;</b> Review the <b>Quality Assurance Program of Concessionaire considering the latest and modern technology</b> and recommend changes considered necessary; Review of test results for manufactured materials required for road and structural works such as bitumen, cement, steel, etc. Review the Concessionaire's procurement schedule and assist the TL in issuance of instructions to the Concessionaire for correcting the same, if deemed necessary; <b>Check the setting up of rock crushers and bituminous plants of the concessioners to ensure that the specified requirements for such equipments are fully met;</b> Review and acceptance of mix design proposals for sub-base, base asphalt and cement concrete mixes; Review Quality control testing of all materials and completed works and ensure that all materials and completed works are as per the technical specifications; Assisting the Team Leader in acceptance and rejection of materials and of completed works; keeping record of results of various tests in a systematic manner; Preparation of reports.



Period from: Oct 2010

Oct

Dec 2011

Chief Engineer  
Engineering Division  
M.M.R.D.A.





Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Project Management Consultancy including construction supervision for the NHAI project pertaining to "Six Lanning of Surat – Dahisar section of NH-8 from Km. 381.600 to Km. 502.000 (length: 120.400 Kms.) in the state of Maharashtra to be executed as BOT (Toll) basis on DBFO pattern under NHDP Phase – V"; Project Cost: Rs. 1,693.00 Crores</b>
Client for the project	IRB Infrastructure Developers Ltd (Owner Client: NHAI)
Project Description	<p>Modern Road Makers Pvt. Ltd. have been awarded the project of development of Six Laning of Surat – Dahisar section of NH-8 from km. 263.00 to km. 502.00 (length: 239.00 kms.) in the state of Gujarat / Maharashtra to be executed as BOT (Toll) basis. STUP was entrusted with the consultancy assignment of Project Management including construction supervision for the Maharashtra section, i.e. (Km. 381/600 to Km. 502/000); Length: 120.400 Kms.</p> <p>The major bridges / structures along the project corridor are as under:</p> <ul style="list-style-type: none"> <li>➤ Vadoli Nala Bridge (1x15.90+4x18 = 87.90 m on LHS &amp; 3x15.10 = 45.3 m on RHS for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Gulzari Nala Bridge (3x21 = 63.0 m on LHS &amp; 3x21 = 63.0 m on RHS (Total length: 126.0 m) for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Surya River Bridge with span arrangement of (1x19.889+1x20.46+1x20.63+2x20.56+1x20.51+1x20.54+1x20.57+1x19.864 = 183.583 m on LHS &amp; 1x19.889+1x20.46+1x20.63+2x20.56+1x20.51+1x20.54+1x20.57+1x19.864 = 183.583 m on RHS (Total Length: 367.166 m for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Vaitarna River Bridge (2x12.2+6x22.86+3x27.43 = 243.85 m on LHS &amp; 2x12.2+6x22.86+3x27.43 = 243.85 m on RHS (Total length: 487.70 m) for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Vandri River Bridge (11x10.67 = 117.37 m on LHS and 11x10.67 = 117.37 m on RHS (Total length: 234.74 m) for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Tansa River Bridge (12x14.14 = 169.68 on LHS &amp; 12x14.14 = 169.68 on RHS (Total length: 339.36 m) for which foundation is proposed on piles in river with marine conditions.</li> <li>➤ Kaman Creek Bridge (2x26+1x32.81 = 84.81 m on LHS &amp; 2x26+1x32.81 = 84.81 m on RHS (Total length: 169.62 m) for which foundation is proposed on 6 nos. piles of 1.200 m dia. in creek with marine conditions</li> </ul>
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	Responsible for assisting the Team Leader in reviewing Concessionaire's Work Program, construction methods and adherence to environmental norms and performance of plant, equipment and machinery; Carrying out tests of soil from borrow areas, aggregate from quarry sites, sand, bitumen etc. to ascertain their strength and suitability for use on the project; <b>Inspect Concessionaire's field laboratories to ensure adequacy of their equipment and capability to perform all the specified testing requirements; Review the Quality Assurance Program of Concessionaire considering the latest and modern technology and recommend changes considered necessary; Review of test results for manufactured materials required for road and structural works such as bitumen, cement, steel, etc. Review the Concessionaire's procurement schedule and assist the TL in issuance of instructions to the Concessionaire for correcting the same, if deemed necessary; Check the setting up of rock crushers and bituminous plants of the concessioners to ensure that the specified</b>



*(Signature)*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



**requirements for such equipments are fully met;** Review and acceptance of mix design proposals for sub-base, base asphalt and cement concrete mixes; Review Quality control testing of all materials and completed works and ensure that all materials and completed works are as per the technical specifications; Assisting the Team Leader in acceptance and rejection of materials and of completed works; keeping record of results of various tests in a systematic manner; Preparation of reports.

Period from: Dec 2009 Sept 2010

Name of Employer STUP Consultants Pvt. Ltd

Name of the Project **Consultancy Services for 4/6 laning of 146.300 km of Jaipur to Deoli Section of NH-12 (Km 18.700 to Km 165.000) in the State of Rajasthan under NHDP Phase III on Design, Build, Finance, Operate and Transfer (DBFOT) Basis; Project Cost Rs. 1183.60 Crore**

Client for the project NHAI / IRB Infrastructure Developers Ltd

Project Description The main scope of the project is to supervise on behalf of the concessionaire as Project Management Consultant. The project involved construction of **4 / 6 laning of 146.300 km** of Jaipur to Deoli Section of NH-12 (Km 18.700 to Km 165.000) in the State of Rajasthan under NHDP Phase III on Design, Build, Finance, Operate and Transfer (DBFOT) Basis

The components of the proposed project were:-

Description	Total Scope
4 lane Highway	146.300 Kms.
Grade Separators	2 Nos.
Major Bridges	1 No.
Minor Bridges	26 Nos.
Vehicular Underpasses	11 Nos.
Cattle / Pedestrian Underpasses	9 Nos.
Culverts	143 Nos.

Designation / Position held in Project **Senior Quality-cum-Material Engineer**

Duties and responsibility of key-personnel in the project Responsible for assisting the Team Leader in reviewing Concessionaire's Work Program, construction methods and adherence to environmental norms and performance of plant, equipment and machinery; Carrying out tests of soil from borrow areas, aggregate from quarry sites, sand, bitumen etc. to ascertain their strength and suitability for use on the project; **Inspect Concessionaire's field laboratories to ensure adequacy of their equipment and capability to perform all the specified testing requirements;** Review the Quality Assurance Program of Concessionaire considering the latest and modern technology and recommend changes considered necessary; Review of test results for manufactured materials required for road and structural works such as bitumen, cement, steel, etc. Review the Concessionaire's procurement schedule and assist the TL in issuance of instructions to the Concessionaire for correcting the same, if deemed necessary; **Check the setting up of rock crushers and bituminous plants of the concessioners to ensure that the specified requirements for such equipments are fully met;** Review and acceptance of mix design proposals for sub-base, base asphalt and cement concrete mixes; Review Quality control testing of all materials and completed works and ensure that all materials and completed works are as per the technical specifications; Assisting the Team Leader in acceptance and rejection of materials and of completed works; keeping record of results of various tests in a systematic manner; Preparation of reports.



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Period from: <b>March 2007</b>	<b>November 2009</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Independent Consultancy Services for six laning of Bharuch to Surat from km. 198.000 to km. 263.000 of NH-8 in Gujarat on BOT basis - (Package BOT-2)</b>
Client for the project	NHAI
Project Description	NHAI proposes to widen the existing NH-8 stretch from 4 lane to 6 lane from Km 198 to Km 263 ie. from Bharuch to Surat in Gujarat on BOT basis. The BOT project basically comprises of up-gradation of the existing 4 lane carriageway to 6 lane divided carriageway facility with geometric improvements and rehabilitation of existing 4 lane road, construction of Service Roads, 6 flyovers and widening of 2 Rail Over Bridges and existing bridges.
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	Responsible for assisting the Team Leader in reviewing Concessionaire's Work Program, construction methods and adherence to environmental norms and performance of plant, equipment and machinery; Carrying out tests of soil from borrow areas, aggregate from quarry sites, sand, bitumen etc. to ascertain their strength and suitability for use on the project; <b>Inspect Concessionaire's field laboratories to ensure adequacy of their equipment and capability to perform all the specified testing requirements; Review the Quality Assurance Program of Concessionaire considering the latest and modern technology and recommend changes considered necessary; Review of test results for manufactured materials required for road and structural works such as bitumen, cement, steel, etc. Review the Concessionaire's procurement schedule and assist the TL in issuance of instructions to the Concessionaire for correcting the same, if deemed necessary; Check the setting up of rock crushers and bituminous plants of the concessioners to ensure that the specified requirements for such equipments are fully met; Review and acceptance of mix design proposals for sub-base, base asphalt and cement concrete mixes; Review Quality control testing of all materials and completed works and ensure that all materials and completed works are as per the technical specifications; Assisting the Team Leader in acceptance and rejection of materials and of completed works; keeping record of results of various tests in a systematic manner; Preparation of reports.</b>

Period from: <b>Feb 2006</b>	<b>Feb 2007</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Independent Engineers Services for the "Improvement of Thane-Ghodbunder Road, (10 Laning) Joining NH " 8 &amp; NH-3 Km 0/000 to Km 14/900"</b>
Client for the project	MSRDC
Project Description	10 Lane; Project length 14.9 Kms. (Project Cost: Rs. 100.00 Crores)
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	The Project Brief & Responsibilities: The project comprises km 0/000 to 4/400 " 4 Lane Asphalt km 4/400 to 10/400 " 4 Lane conc. + 2 Lane Asphalt. km 10/400 to 14/900 " 6 Lane conc. + 2 Lane BT + 2 Lane Paver Block. It also includes construction of box culverts, retaining walls, provision of utility ducts, junction improvement, drainage improvement, Bus byes & lay byes improvement, landscaping & beautification. Responsibilities includes design & documentation of concrete and bitumen mixes, field sampling and testing of material, calibration of hot mix plant, concrete batching plant & other equipments. Preparation of quality assurance plan (QAP) to confirm that



Chief Engineer  
Engineering Division  
M.M.R.D.A.



	finished product should meet the specification requirement. Examination of test certificates & compare the same with specification.
Period from: <b>Sept. 2002</b>	<b>Jan 2006</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>4 Laning of Satara Kolhpur upto MS Border Section of NH-4, From Km 725/00 to Km 697/000 (Pakage - V)</b>
Client for the project	NHAI & MSRDC
Project Description	4 Lane; 28.00 Kms
Designation / Position held in Project	<b>Highway Engineer</b>
Duties and responsibility of key-personnel in the project	Responsibilities include scheduling of all field, design and documentation activities, identification of available alignment options and finalization of alignment. Finalization of reports, documents and drawings, geometric design of alignments and design of pavements, supervision of site clearing, GSB, WMM, DLC, pavement quality concrete, BM, DBM, BC, drainage work, portal culverts and pedestrian crossing as per IRC / IS / British standards and most specification with the state of the art technology. Planning and scheduling of construction activities, review of progress reports and construction procedures. Liaison with client and contractor. Preparation of (QAP) covering all field, design and documentation activities and implementing the same, design standards for the project. Finalization of data formats and requirements of field investigations, finalization of old structures, material approvals. Sampling and testing of all materials required for road work.

Period from: <b>Feb 2002</b>	<b>Aug 2002</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>4 Laning of National Highway (NH) 4 &amp; 4B Leading to JNPT Package - I</b>
Client for the project	NHAI
Project Description	4 Lane; 26.00 Kms.
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	Responsible as a material and quality control engineer for developing the quality assurance plan and establishing the three laboratories at different locations on site. Developing methodology of the each activity, work finalizing quarries for aggregate, sand & borrow area for embankment, subgrade etc. on basis of testing carried on various samples as per the IS/IRC/British/ American codes and MORTH. Monitoring of testing carried out in site laboratory as well as outside laboratory of all construction material like soil, bitumen, cement, steel hume pipes as per frequency mentioned in MORTH, relevant IS/IRC/British codes. Calibration of Batching plants, Hot mix plant and other equipment in laboratory.

Period from: <b>Jan 2001</b>	<b>Jan 2002</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Construction of Stadiums &amp; Infrastructure Development for National Games " 2002 at Hyderabad in Andhra Pradesh</b>
Client for the project	AP Industrial Infrastructure Corporation Ltd.
Project Description	Project Cost - 100 Crores
Designation / Position held in Project	<b>Material Engineer</b>



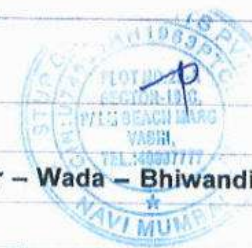
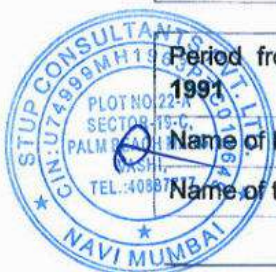


Duties and responsibility of key-personnel in the project	Responsibilities include review matters related material & quality management. Testing of material for subgrade, GSB, WMM, BT, Aggregate, Bricks, Cement etc. Testing of structural steel, welding work, for physical & chemical properties, ultrasonic test etc. Preparation of checklist, formats for wooden & Aluminum doors, windows, plumbing work etc. Preparing quality assurance manual & making proper documents to achieve the good quality product, checking performance of the batching plant. Decision and acceptance or rejection of the material and works, Issuing instructions ensuring proper execution and control over quality of road works as well as stadium works.
---	--

Period from: <b>March 1998</b>	<b>Dec 2000</b>
Name of Employer	STUP Consultants Pvt. Ltd
Name of the Project	<b>Consultancy Services for Mumbai-Pune Expressway – Section 'A': Kon to Chowk (Six Lanes Road with Rigid Pavement) on BOT basis</b>
Client for the project	MSRDC
Project Description	6 Lane
Designation / Position held in Project	<b>Material Engineer</b>
Duties and responsibility of key-personnel in the project	Responsibilities include quality control & quality assurance. It includes issuing quality certificate with every R.A. Bill after checking the quality of the work, testing of materials as per the contract specification, MOST & relevant IS, IRC, BIS, and ASTM Codes. Testing of material includes soil for embankment, sub grade, aggregates for bituminous & non bituminous bases & subases, concrete work etc. I am also responsible for formulation of design mixes for GSB, WMM, DLC, PQC & Concrete grades upto M-45 for structures and PSC girders, to check the foundation strata for SBC for underpasses overpasses, retaining walls, rockfill embankment. Testing and approval of miscellaneous materials like crash barriers for galvanized thickness, admixtures, sealants, etc. Inspection of batching plant, HMP, Crushers and checking the product to meet the specification requirements.

Period from: <b>July 1996</b>	<b>Feb 1998</b>
Name of Employer	Public Works Department Maharashtra
Name of the Project	<b>Widening of Kurla-Mankhurd Road &amp; Railway over bridge at Chembur, Mumbai</b>
Client for the project	PWD Maharashtra
Project Description	4 Lane
Designation / Position held in Project	<b>Assistant Engineer II</b>
Duties and responsibility of key-personnel in the project	The Project Brief & Responsibilities: Length of the road is 8 km. Rail over bridge is having span of 10mtr & it carries traffic from Ghatkopar and Mulund to Sion - Parel road (Chembur Naka). Responsibility includes surveying, determination of existing soil strata & crust thickness. Testing of aggregate & bituminous material, testing of concrete, keeping day to day record on the quality and quantity of the material for various activities of the project. Estimation and costing of various items in the project

Period from: <b>October 1997</b>	<b>June 1996</b>
Name of Employer	M/s. Atlanta Construction Co. (India) Ltd
Name of the Project	<b>Construction of two laning of 64 km of Manor – Wada – Bhiwandi road</b>





	<b>on SH-34 &amp; SH-35 in the state of Maharashtra</b>
Client for the project	PWD, Maharashtra
Project Description	2 Lane; 70 Kms. Project Cost: Rs. 17.00 Crores
Designation / Position held in Project	<b>Asstt. Highway Engineer</b>
Duties and responsibility of key-personnel in the project	Responsible for <b>review and Modification in design; Execution of work; Implementation of Quality Assurance Plan and Quality Control; Monitoring physical and financial progress of work; Monitoring rehabilitation/maintenance activities</b> carried out along the existing carriageway; Ensured that the EMP was adhered to and adequate safety measures at site were in place during construction; Maintain proper records of the activities; Measurement of work and preparation of Interim Payment Bills and assistance in preparation of various reports.

<b>Languages</b>	:	<b>Language</b>	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
		English	Excellent	Excellent	Excellent
		Marathi	Excellent	Excellent	Excellent
		Hindi	Excellent	Excellent	Excellent

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



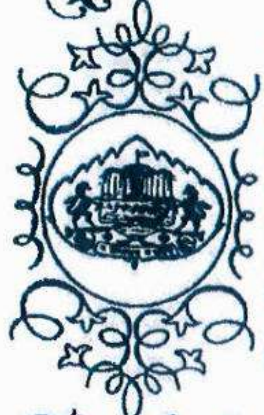
  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.





To Mr. Lawrence

# University Of Poona



We, the CHANCELLOR,  
the VICE-CHANCELLOR  
and the MEMBERS  
of the EXECUTIVE COUNCIL  
on the recommendation of the SENATE  
of the UNIVERSITY of POONA certify  
that Wagh

Harishchandra Tukaram  
of College of Engineering  
Pune having been examined  
for the Degree of

# Bachelor of Engineering

(IN ITS Civil BRANCH)  
in April 1991 and having passed in  
the Second Class

the said degree has been  
conferred on him at PUNE on Twentyseventh December  
One Thousand Nine Hundred Ninetyone  
IN TESTIMONY whereof are set the Seal of the  
University and the Signature of the  
Chancellor.

VICE-CHANCELLOR.



Chief Engineer  
Engineering Division  
M.M.R.D.A.

m Lawrence.

Maharashtra State Board of Secondary and Higher Secondary Education



This is to certify that the withinsigned

*(Signature)*

WASH NARISHNEHABRA TUKARAN

DIVISIONAL BOARD	SEAT NO.	CENTRE NO.	SCHOOL NO.	SL. NO. OF CERTIFICATE
PUNE	016711	200	93,060	059330

passed the SECONDARY SCHOOL CERTIFICATE EXAMINATION (10-Year Course) of MARCH-1982 in the Grade **DISTINCTION** with subjects shown below:

CORE SUBJECTS	MARKS OBTAINED / OUT OF	OTHER SUBJECTS	GRADES
MARATHI	54/100	[OPTIONAL SUBJECTS]	A
HINDI	68/100	DRAWING & PAINTING	
ENGLISH	85/100	[ SCHOOL SUBJECTS ]	B+
MATHEMATICS	124/150	PHYSICAL EDUCATION	
SCIENCE	122/150	SCOUTING	
SOCIAL SCIENCES	85/100		B+
<b>GRAND TOTAL</b>	<b>538/700</b>	<b>BASE ON GRAND TOTAL =&gt;</b>	<b>76.86</b>

DATE OF BIRTH

19-05-1965 (NINETEENTH MAY NINETEEN HUNDRED SIXTY FIVE)

PUNE-411 020

27th September 1982

*(Signature)*

*(Signature)*

1. The Candidate must show...

2. The Candidate must show...

3. Grades shown in Outline are...

GRADE	A	B+	B	C+	C	D
MARKS OBTAINED	70% & above	60% to 69%	55% to 59%	50% to 54%	45% to 49%	35% to 44%



18 JUN 2005 11:36

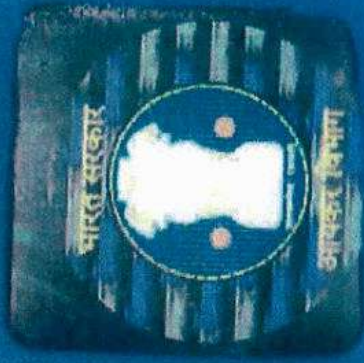
912512322206

91%



Chief Engineer Engineering Division M.M.R.D.A.

भारत सरकार  
GOVT. OF INDIA



आयकर विभाग  
INCOME TAX DEPARTMENT

HARISHCHANDRA T WAGH  
TUKARAM MHALUJI WAGH  
19/05/1965

Permanent Account Number

AAPPW8061Q

Signature



*Handwritten signature*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



# STUP Consultants Pvt. Ltd.

## 50 Decades

Sustainable Design of Infrastructure & Real Estate through Innovation

10<sup>th</sup> April 2017

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. H.T. Wagh is working with this organization as Senior Quality cum Material Expert from March 1998 – till date on various highway/ bridge projects. Some of the important project undertaken by him are:

- **Authority's Engineer' for Construction and Development of 6 – Lane Hindon Elevated Road at Ghaziabad, U.P., India on T.O.D. (Transit Oriented Development) basis on Engineering Procurement And Construction (EPC) Contract mode (Length 10.300 Km). Client: Ghaziabad Development Authority**
- **Proof Checking & Project Management Consultancy services for the project of "Improvement of Sion – Panvel special State Highway from KM 115+800 TO KM 140+690 (Kalamboli Junction to B.A.R.C Junction)". Client: PWD / Sion Panvel Tollways Ltd.**
- **Project Management Consultancy including construction supervision for the NHA project pertaining to "Six Lanning of Surat – Dahisar section of NH-8 from Km. 381.600 to Km. 502.000 (length: 120.400 Kms.) in the state of Maharashtra to be executed as BOT (Toll) basis on DBFO pattern under NHDP Phase – V". Client: IRB Infrastructure Developers Ltd.**
- **Consultancy Services for 4/6 laning of 146.300 km of Jaipur to Deoli Section of NH-12 (Km 18.700 to Km 165.000) in the State of Rajasthan under NHDP Phase III on Design, Build, Finance, Operate and Transfer (DBFOT) Basis. Client: IRB Infrastructure Developers Ltd.**
- **Independent Consultancy Services for six laning of Bharuch to Surat from km. 198.000 to km. 263.000 of NH-8 in Gujarat on BOT basis - (Package BOT-2). Client: National Highways Authority of India.**
- **Consultancy Services as Independent Engineer for Improvement, Toll collection & Operation, Maintenance of Thane Ghodbunder Road, BOT Basis. Client: Maharashtra State Road Development Corporation.**
- **Independent Engineer of Four Laning of 111 km of Mumbai – Pune Section on NH-4 (km 131/200 to 20/400) on BOT basis. Client: Maharashtra State Road Development Corporation.**


This experience certificate is issued on the request of various clients.

For STUP Consultants Pvt. Ltd

  
Sunil Dutt

Joint Vice President



  
Chief Engineer  
Engineering Division

Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navimumbai@stupmail.com



Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
Tel.: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com



<u>Curriculum Vitae (CV) for Proposed Key Staff</u>		
1.	Proposed Position	: K-6: Contract Specialist
2.	Name of Staff	: A S Bokil
3.	Date of Birth	: 22 July, 1964
4.	Nationality	: Indian
5.	Education Qualification	: • B.E (Civil ), University of Pune, 1989
	Contact Address with Phone and mobile numbers	C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-40887777
6.	Membership of Professional Societies	: Life Member, Institution of Engineers (India)
7.	Employment Record	:
	December 1993	: Till date
	Employer	: STUP Consultants Pvt. Ltd
	Position held	: Senior Contract Specialist
	From 1989	: 1992
	Employer	: AFCONS Infrastructure Pvt. Ltd
	Position held	: Construction Engineer
8.	<u>List of projects on which the Personnel has worked:</u>	



Period from: <b>September 2017</b>	Period to: Till Date
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Authority's Engineer for Consultancy services for Authority's Engineer for Supervision of Rehabilitation and upgradation to 2 lane with paved shoulder/ 4-lane standards of National Highway section (i) Satara – Koregaon – Mhaswad section of NH-548C (Length - 85.686 km) &amp; Section (ii) Mhaswad - Tembhurni section of NH-548 C (Length - 57.678 km) on EPC Mode</b>
Client for the project	MSRDC/MORTH
Project Description	<b>Length: 143.364 Kms; Project Cost: 932.54 Crores</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> he shall be deployed in working season in stages for cumulative duration of the consultancy contract period for obtaining his expert opinion on emerging contractual issues, Key responsibilities will be to guide and assist Team Leader/Employer in all aspects of contract management in proper implementation of contract provisions including controlling the project cost of the construction package, Shall offer his advice



Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



	on contractual complications arising during the implementation as per the request of the employer, Shall be required to prepare manuals/schedules for the consultants team/employer based on the provisions of the contract document, Shall be responsible for giving appropriate suggestions in handling claims of the contractors and any dispute arising thereof
--	---

Period from: <b>September 2017</b>	Period to: <b>Till Date</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Authority's Engineer For Supervision of rehabilitation and up-gradation to 2 lane with paved shoulder / 4 lane standards of National Highway section (i) Pandhrpur to Sangola section of NH-965C (Length - 34.358 km) section (ii) Sangola to Kurudwadi section of NH-965C (Length - 48.375 km) section (iii) Mhaswad - Pilov - Pandarpur section of NH-548E (Length - 53.08 km) On EPC Basis</b>
Client for the project	MSRDC/MORTH
Project Description	<b>Length: 135.81 Kms; Project Cost: 713.171 Crores</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> he shall be deployed in working season in stages for cumulative duration of the consultancy contract period for obtaining his expert opinion on emerging contractual issues, Key responsibilities will be to guide and assist Team Leader/Employer in all aspects of contract management in proper implementation of contract provisions including controlling the project cost of the construction package, Shall offer his advice on contractual complications arising during the implementation as per the request of the employer, Shall be required to prepare manuals/schedules for the consultants team/employer based on the provisions of the contract document, Shall be responsible for giving appropriate suggestions in handling claims of the contractors and any dispute arising thereof

Period from: <b>Oct. 2015</b>	Period to: <b>August 2017</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Consultancy Services for Authority's Engineer for Supervision of Project of Construction of Four Laning of UP/Haryana Border-Yamunanagar-Saha-Barwala-Panchkula Section of NH-73 from Km 70.830 to Km 115.400 in the State of Haryana on Engineering Procurement and Construction (EPC) Basis (Package-1).</b>
Client for the project	National Highways Authority of India (NHAI)
Project Description	<b>Project Length: 44.57 km; Lane: 4-lane; Project cost: INR 481.45 crore.</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , Responsible to advice the project authorities regarding <b>contract administration, contract management, contract planning, resource planning</b> and financial documentation related to legal matters, checking of Concessionaire's Monthly Statement of Works and preparation of Interim Payment Certificate, Preparation of different types of reports like Quarterly Progress Reports, Monthly Progress Reports & status reports, preparation of variation order, Rate Analysis for new items, finalization of extension of time, monitoring of claims, checking & preparation of consultancy services, preparation of revised bill of quantities, preparation of documents for recommendation for custom/excise duty exemption certificates,



*Handwritten signature*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





	monitoring & checking of Concessionaire's Work Programme. Also involved in resolving contractual disputes by correctly interpreting various clauses of agreement.
Period from: Dec. 2012	Period to: Jun. 2015 [07 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	Independent Engineer services for Four Laning of Lucknow-Raebarell Section of NH-24 A from Km 12.700 to Km 82.700 on From km. 12.700 to km. 82.700 (project length: 70 km.) on BOT (Annuity) under NHDP Phase IV A in the State of Uttar Pradesh.
Client for the project	National Highways Authority of India (NHAI)
Project Description	Project Length: 70 km; Lane: 4-lane; Project cost: INR 836 crore.
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , Responsible to advise the project authorities regarding <b>contract administration, contract management, contract planning, resource planning</b> and financial documentation related to legal matters, checking of Concessionaire's Monthly Statement of Works and preparation of Interim Payment Certificate, Preparation of different types of reports like Quarterly Progress Reports, Monthly Progress Reports & status reports, preparation of variation order, Rate Analysis for new items, finalization of extension of time, monitoring of claims, checking & preparation of consultancy services, preparation of revised bill of quantities, preparation of documents for recommendation for custom/excise duty exemption certificates, monitoring & checking of Concessionaire's Work Programme. Also involved in resolving contractual disputes by correctly interpreting various clauses of agreement.

Period from: Jan. 2012	Period to: Mar. 2013 [08 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	Independent Engineer (IE) services for Six/Four laning of Km. 198/00 to Km. 263/00, Bharuch-Surat Section of NH-8 during Operation & Maintenance period in Gujarat on BOT basis, package-II on DBFOT Basis under NHDP Phase-V
Client for the project	National Highways Authority of India (NHAI)
Project Description	<p>Project Length: 65 km; Lane: 6-lane; Project cost: INR 636 crore.</p> <p>The BOT project basically comprises of upgradation of the existing 4-lane carriageway to 6-lane divided carriageway facility with geometric improvements and rehabilitation of existing 4-lane road, construction of service roads, 7 major bridges, 6 flyovers and widening of 2 Rail Over bridges (ROBs) and existing bridges.</p> <ul style="list-style-type: none"> <li>➤ Bridge at Chainage 205.885 on NH-8 (Span 3x35+1x35+2x135 = <u>410 m</u>) Superstructure: Prestressed Concrete Girder.</li> <li>➤ Amla Khadi Bridge @ ch. 209.324 (Total Length: <u>91.00 m</u> with span arrangement of 1 x 5.0 + 1 x 24.226 + 1 x 32.89 + 1 x 23.75 + 1 x 5.0)</li> <li>➤ Kim Tributary River Bridge @ Ch. 231.344m (Total Length: <u>85.40 m</u> with span arrangement of 7 x 12.20)</li> <li>➤ Kim River Bridge @ Ch. 233.669 (Total Length: <u>118.35 m</u> with span arrangement of 1 x 14.65 + 2 x 32.9 + 1 x 5.0)</li> <li>➤ Panjar Khadi bridge @ Ch. 244.757 (Total Length: <u>56.59 m</u> with span</li> </ul>



Chief Engineer  
Engineering Division  
M.M.R.D.A.

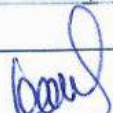


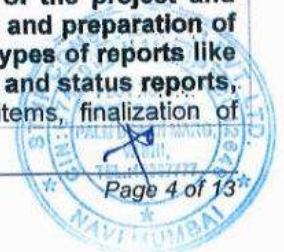


	<p>arrangement of 1 x 13.70 + 1 x 28.95 + 1 x 13.70)</p> <ul style="list-style-type: none"> <li>➤ Kadodara Khadi bridge @ Ch. 260.393 (Total Length: <u>56.25 m</u> with span arrangement of 1 x 13.65 + 1 x 28.95 + 1 x 13.65)</li> <li>➤ ROB at Chainage 206.406 on NH-8 between Bharuch-Surat section (Span 1X48+2X165 = <u>378 m</u>) Superstructure: Prestressed Concrete Girder.</li> <li>➤ ROB at Chainage 228.077 on NH-8 between Bharuch-Surat section (Span 1X35+2X165 = <u>365 m</u>) Superstructure: Prestressed Concrete Girder.</li> </ul>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , Responsible to advice the project authorities regarding <b>contract administration, contract management, contract planning, resource planning</b> and financial documentation related to legal matters, checking of Concessionaire's Monthly Statement of Works and preparation of Interim Payment Certificate, Preparation of different types of reports like Quarterly Progress Reports, Monthly Progress Reports & status reports, preparation of variation order, Rate Analysis for new items, finalization of extension of time, monitoring of claims, checking & preparation of consultancy services, preparation of revised bill of quantities, preparation of documents for recommendation for custom/excise duty exemption certificates, monitoring & checking of Concessionaire's Work Programme. <b>Also involved in resolving contractual disputes by correctly interpreting various clauses of agreement.</b>

Period from: <b>Jan. 2011</b>	Period to: <b>May 2013 [06 months intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Project Management Consultancy services for Manor- Wada- Bhiwandi Road on SH-34 in the State of Maharashtra. The project involves widening of Manor-Wada (24.25 kms) and Wada Bhiwandi Road (40.07 Kms) on SH-34 and SH-35 respectively, and to convert it into a 4-lane highway on Built Operate Toll (BOT) basis.</b>
Client for the project	Supreme Infrastructure Ltd
Project Description	<b>Project Length: 64 km; Lane: 4-lane; Project cost: INR 340 crore.</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist</b> , responsible for the implementing concession agreement finalizing details / formats / schedules to be followed during the project implementation stage, guiding and assist Team Leader in all aspects of contract management as per agreement; expert opinion on emerging contractual issues between contractor. Responsible for proper implementation of contract provisions including controlling cost of the construction packages. <b>Offer advice on contractual complications arising during implementation as per request of employer, prepare manuals / schedules for consultant team / employer based on the provisions of contract agreement; suggestions in handing claims of contractor and disputes arising thereof. Assist the employer in Arbitration and / or litigation, examine claims and variation orders. Contract Management of the project and checking of contractor's monthly statement of works and preparation of Interim Payment Certificate, Preparation of different types of reports like quarterly progress reports, monthly progress reports and status reports, preparation of variation order, rate analysis for new items, finalization of</b>



  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.







	extension of time, monitoring of claims, checking and preparation of consultancy services, preparation of revised bill of quantities, preparation of documents for recommendation of custom / excise duty exemption certificates, monitoring and checking of contractors work programme.
Period from: Dec. 2008	Period to: Jan. 2013 [08 months Intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Consultancy services for Detailed Engineering and Project Management consultancy services for 4-lane Elevated Road (4.0 kms.) on Sahar Road (upto Chattrapati Shivaji International Airport)- Category 'C'.</b>
Client for the project	Mumbai Metropolitan Road Development Authority (MMRDA)
Project Description	<b>Project Length: 4 km; Lane: 4-lane (Elevated); Project cost: INR 271 crore.</b>  <i>The elevated road consists of 30 spans of 35-metre-long (115 ft) precast concrete segments erected using a specially fabricated launching girder and strand jack. The pillars measure 2.5 by 2.8 metres (8.2 ft x 9.2 ft) at the base. The 27.6-metre (91 ft) deck superstructure is composed of a 9-metre-wide (30 ft) precast central spine and two 9.3-metre (31 ft) cantilever wings on either side connected to the central spine by concrete stitching and transverse pre-stressing methods. A 98-metre-long (322 ft) tunnel constructed at the junction of the corridor with the WEH using the cut and cover method with concrete contiguous piles.</i>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist</b> , responsible for liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. <b>Also involved in contributing expertise on legal matters of contract and MIS for contract handling. Also involve dealing with ABD / Arbitration aspects etc.</b>

Period from: Sep. 2009	Period to: Dec. 2013 [10 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Detailed Engineering Design &amp; Project Management Services for the work of Construction of 2.50 Km. Elevated 4-lane Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km. 0/000 to 2/500.</b>
Client for the project	Mumbai Metropolitan Road Development Authority (MMRDA)
Project Description	<b>4-lane; Project cost: INR 163 crore</b>  <b>The freeway was built in three phases - a 9.29 km elevated road, a 4.3 km road-tunnel-flyover and an elevated 2.5 km flyover.</b>



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist</b> , responsible for liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. <b>Also involved in contributing expertise on legal matters of contract and MIS for contract handling. Also involve dealing with ABD / Arbitration aspects etc.</b>

Period from: <b>Aug. 2008</b>	Period to: <b>Nov. 2011 [6 months intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Consultancy services for Detailed Engineering Designs, Bid Documents and Project Management services for the connector between Bandra Kurla Complex 'G' Block to Eastern &amp; Western Express Highways including all structures and at grade roads.</b>
Client for the project	Mumbai Metropolitan Road Development Authority (MMRDA)
Project Description	<b>4-lane; Project cost: INR 185 crore</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> is responsible for Contract Management of the Project and checking of Contractor's Monthly Statement of Works and preparation of Interim Payment Certificate, Preparation of different types of reports like Quarterly Progress Reports, Monthly Progress Reports & status reports, preparation of variation order, Rate Analysis for new items, finalization of Extension of Time, Monitoring of Claims, checking & preparation of Consultancy Services, Preparation of Revised Bill of Quantities, Preparation of documents for recommendation for Custom/Excise Duty Exemption Certificates, Monitoring & Checking of Contractor's Work Programme.

Period from: <b>Dec. 2008</b>	Period to: <b>Mar. 2012 [8 months intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Project Management Consultancy including construction supervision for the NHAI project pertaining to "Six Lanning of Surat - Dahisar section of NH-8 from Km. 381.600 to Km. 502.000 (length: 120.400 Kms.) in the state of Maharashtra to be executed as BOT (Toll) basis on DBFO pattern under NHDP Phase - V.</b>
Client for the project	Modern Road Makers Pvt. Ltd.
Project Description	<b>6-Lane; Project length: 120.4 Km; Project cost: INR 1434.0 crore</b> <b>Details of structures:</b> Vadoli Nala Bridge, 1x15.90+4x18 = 87.90 m (LHS); 3x15.10 = 45.3 m (RHS) Gulzari Nala Bridge. 3x21 = 63.0 m (LHS), 3x21 = 63.0 m (RHS) Surya River Bridge, 1x19.889+1x20.46+1x20.63+2x20.56+1x



Chief Engineer  
Engineering Division  
M.M.R.D.A.



	$20.51+1 \times 20.54+1 \times 20.57+1 \times 19.864 = 183.583 \text{ m}$ Vaitarna Bridge, $2 \times 12.2+6 \times 22.86+3 \times 27.43 = 243.85 \text{ m (LHS)}$ , $2 \times 12.2+6 \times 22.86+3 \times 27.43 = 243.85 \text{ m (RHS)}$ Vandri Bridge, $11 \times 10.67 = 117.37 \text{ m (LHS)}$ , $11 \times 10.67 = 117.37 \text{ m (RHS)}$ Tansa Bridge, $12 \times 14.14 = 169.68 \text{ (LHS)}$ , $12 \times 14.14 = 169.68 \text{ (RHS)}$ Kaman Creek Bridge, $2 \times 26+1 \times 32.81 = 84.81 \text{ m (LHS)}$ , $2 \times 26+1 \times 32.81 = 84.81 \text{ m (RHS)}$
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist</b> , responsible for liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. <b>Also involved in contributing expertise on legal matters of contract and MIS for contract handling.</b>

Period from: Dec. 2008	Period to: Mar. 2011 [6 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Project Management Consultant for the 1535 m long Bhosari Flyover on Pune – Nashik Road (NH- 50) in the State of Maharashtra.</b>
Client for the project	Pimpri Chinchwad Municipal Corporation
Project Description (give details of 2/4/6 lane lengths involved, details of structures involved as required in evaluation criteria)	<b>4-Lane. Project cost: INR 87 crore.</b> Total Length of Flyover is 1535 Mtr. including solid approaches on both end and super structure is precast segmental Box Girder Type. Top width of Box Girder is 19.5 Mtr. (4 Lane with 1.2 Mtr. Median). Superstructure is resting on single pier span of 40 Mtr. Length. Reinforcement Earth Work for approaches at both ends has been provided.
Designation / Position held in Project	Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist</b> , responsible for liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. <b>Also involved in contributing expertise on legal matters of contract and MIS for contract handling.</b>

Period from: Oct. 2007	Period to: Jun. 2011 [7 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Detailed Engineering and Project Management services for 4-Laning of Lebad-Jaora Section of SH- 31 between Ch. 0.00 to Ch. 125 (project length: 125 kms.) on BOT Basis in the State of Madhya Pradesh</b>
Client for the project	Madhya Pradesh Road Development Corporation / Pan India Infrastructure Ltd.
Project Description	



Chief Engineer  
Engineering Division  
M.M.R.D.A.



	<p><b>4-Lane; Project cost: INR 682.51 crore</b></p> <p>The project involved <b>Design/Construction of Road Over Bridge (650 m)</b> on Ratlam By-Pass on <b>Main Line of Western Railway</b> Substructure: Pile Foundation; Super structure: Composite Steel Girder Section &amp; RCC Slab; <b>Design/Construction of Road Over Bridge (450 m)</b> on Ratlam By-Pass on <b>Ujjain Line of Western Railway</b>; Substructure: Pile Foundation; Super structure: Composite Steel Girder Section &amp; RCC Slab. <b>Design/Construction of Road Over Bridge (450 m)</b> on Ratlam By-Pass on <b>Ajmer Line of Western Railway</b>; Substructure: Pile Foundation; Super structure: Composite Steel Girder Section &amp; RCC Slab.</p>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , responsible for preparation of tender documents with BOQ, cost estimates, verification and certification of work and bills of EPC contractors, liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. Also involved in contributing expertise on legal matters of contract and MIS for contract handling.

Period from: Jul. 2006	Period to: Sep. 2007 [ 6 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Independent Engineer for the work of 4-laning and Improvement to Mumbai – Pune Section of NH-4 (km 131/200 to 20/400) (total length of project: 241 kms) with self finance alongwith award of O &amp; M and to rights on NH-4 and existing Mumbai – Pune Expressway.</b>
Client for the project	Maharashtra State Road Development Corporation Ltd.
Project Description	<p><b>4-Lane. Project cost: INR 914 crore.</b></p> <p>NH-4 with part additional link by Sion-Panvel highway starts from Shilphata (km 131/200) and ends at Nigadi (km 20/400) and is 241 km long. The existing road is minimum two lane (7.0m wide) with paved shoulders. It has 164 C D works, 17 minor bridges, 4 major bridges and one ROB. The existing ROW is 30m to 60m wide. The road itself connects numbers of villages/townships viz. Taloja, Kalamboli, Panvel, Khopoli, Khandala, Lonawala, Kamshet, Talegaon, Wadgaon, Dehu Road Etc</p>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , responsible for preparation of tender documents with BOQ, cost estimates, verification and certification of work and bills of EPC contractors, liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. Also involved in contributing expertise on legal matters of contract and MIS for contract handling.

Period from: Jan. 2005

Period to: Jun. 2006 [ 4 months intermittent input]



Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Consultancy Services for widening and construction of 4-lane 33 kms. LBS Marg from Sion to Mulund funded by World Bank.</b>
Client for the project	Mumbai Metropolitan Region Development Authority
Project Description	<b>Project Length: 33 km; Lane: 4-lane; Project cost: INR 110.0 crore.</b>
Designation / Position held in Project	Senior Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Contract Specialist</b> , responsible for preparation of tender documents with BOQ, cost estimates, verification and certification of work and bills of EPC contractors, liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. Also involved in contributing expertise on legal matters of contract and MIS for contract handling.

Period from: <b>Mar. 2002</b>	Period to: <b>Dec. 2004 [ 8 months intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Design and Project Management Consultancy Services for 4-laning of Satara – Kolhapur State Border Section of NH-4 from Km 725 to Km 592/240 (project length: 28 km.) under Package V</b>
Client for the project	Maharashtra State Road Development Corporation Ltd
Project Description	<b>Project Length: 28 km; Lane: 4-lane; Project cost: INR 97.0 crore.</b>  The project comprises of 4-laning the existing 2 lane NH-4 between Satara to Shivade Package V (28 Km). It is planned to have concrete pavement for the new carriageway. There are 3 major bridges in Package V and an elevated road structure in Umbarji town. The road will be semi access controlled.
Designation / Position held in Project	Senior Contract Specialist & Quantity Surveyor
Duties and responsibility of key-personnel in the project	As <b>Contract Specialist and Quantity Surveyor</b> , responsible for preparation of tender documents with BOQ, cost estimates, verification and certification of work and bills of EPC contractors, liaison with the Client & other associated agencies and providing support to the project team members as and when required. His involvement also includes advising on technical aspects of different project roads and bridges as well as contractual variations, extra claims and on disputes arising during execution of contracts. He is also advising on the contractual complication hindering the progress during the project implementation. Also involved in contributing expertise on legal matters of contract and MIS for contract handling.

Period from: <b>Aug. 2004</b>	Period to: <b>Dec. 2005 [ 10 months intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi



*Asst*  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.





Name of the Project	<b>Mumbai-Pune Expressway – Section 'A': Kon to Chowk (Six Lanes Road with Rigid Pavement) on BOT basis in the State of Maharashtra.</b>
Client for the project	Maharashtra State Road Development Corporation Ltd
Project Description	<b>Project Length: 111 km; Lane: 4-lane; Project cost: INR 291.0 crore.</b>
Designation / Position held in Project	Resident Engineer (Equivalent to Contract Specialist)
Duties and responsibility of key-personnel in the project	As Resident Engineer cum Safety Engineer ,Responsible for developing Quality Assurance Plan (QAP), Methodology of the activity/work, finalizing data formats for materials investigation, monitoring extensive testing carried out in lab of all construction material (Soil, Cement, and concrete. Also responsible for Study and comment on safety audit report prepared by Concessionaire, review cost variation and determine the additional cost; Review the safety measures implemented; Ensure execution of works at site as per specification and standards, various accident and other insurance coverages; <b>Advice / assist MSRDC on issues like dispute resolution, court proceedings, Arbitration;</b> Assist MSRDC in submission for Technical Audit carried out by NHA during construction/post construction phase; Progress monitoring and preparation of progress reports; Its documentation as per frequency test of MoRTH, Calibration of Batching plant, for hot mix designs and concrete designs and site testing for D .L .C . & P.Q.C , asphalt work. Visits progress monitoring, preparation of progress reports and testing of crushing plant, Bitumen.

Period from: <b>Nov. 2001</b>	Period to: <b>May 2004 [ 10 months Intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Construction Supervision of 4-laning and strengthening of existing two lane stretches from Ratanpur to Gandhinagar (km 388.4 to km 495) on NH8 in the state of Gujarat (Contract Packages UG/3 &amp; UG/4).</b>
Client for the project	National Highways Authority of India (NHAI)
Project Description	<b>Project Length: 107 km; Lane: 4-lane; Project cost: INR 280.0 crore.</b>
Designation / Position held in Project	Senior Quantity Engineer & Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Senior Quantity Engineer &amp; Contract Specialist</b> is responsible for Contract Management of the Project and checking of Contractor's Monthly Statement of Works and preparation of Interim Payment Certificate, Preparation of different types of reports like Quarterly Progress Reports, Monthly Progress Reports & status reports, preparation of variation order, Rate Analysis for new items, finalization of Extension of Time, Monitoring of Claims, checking & preparation of Consultancy Services, Preparation of Revised Bill of Quantities, Preparation of documents for recommendation for Custom/Excise Duty Exemption Certificates, Monitoring & Checking of Contractor's Work Programme. <b>Also involve dealing with ABD / Arbitration aspects etc</b>

Period from: <b>Dec. 1998</b>	Period to: <b>Feb. 2002 [ 5 months Intermittent input]</b>
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>Project Management Consultancy Services for Construction of new 2 lane bridge across Kasheli Creek on BOT Basis</b>
Client for the project	Ideal Road Builders Ltd.



*Signature*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.





Project Description	<b>Project Length: 817.5 m Lane: 4-lane; Project cost: INR 70.0 crore.</b>  The span arrangement consisting of <b>15 spans of 54.5 m PSC girders</b> . The central three spans will have a navigational clearance of 9.2 m above the high tide level. The span shall be same as the existing bridge or in multiples of that so that the piers of the proposed bridge are in line with the existing bridge. The bridge shall have 7.5 m carriageway with 1.5 m for footpaths on either sides. The C/L of proposed bridge shall be about 11.25 m from the C/L of existing bridge. The bridge is on well foundation.
Designation / Position held in Project	Project Manager-cum-Contract Specialist
Duties and responsibility of key-personnel in the project	As <b>Project Manager-cum-Contract Specialist</b> , responsible for Planning and Monitoring of Execution of Works; Implementation of Quality Control Program of Various activities such as Earthwork, GSBC, WMM, Bituminous works, Dry Lean Concrete and Pavement Quality Concrete; Ensuring that the mixing, transportation, placing and paving operation of concrete are carried out as per sound engineering practices and as required by specifications; Mix Adjustment to improve the quality of PQC; Inspecting the finished pavement surface of PQC; Implementation of Quality Control Procedure, Sampling & Material Testing; Organizing and Supervising field Surveys, with modern Survey Equipments viz. Total Stations, Distomat, Auto levels; Identification of Borrow Material & Aggregate Sources; Carrying out all activities of Projects including Construction of Culverts, Minor and Major Bridges; Mobilization and Demobilization of Resources, day to day progress monitoring and preparation of Monthly and other project progress reports; Contract Management, measurement and preparation of Interim Payment Bills; Procurement of Store Materials; Interaction with Client; Review of Quantities Measured by Sub-Contractors, Issuing the Variation orders & Certificate; Imparting training to the Contractor's personnel in various aspects of construction.

Period from: Dec. 1998	Period to: Feb. 2002 [ 6 months intermittent input]
Name of Employer	STUP Consultants Pvt. Ltd., New Delhi
Name of the Project	<b>MTP Project, Mankhurd Belapur Railway bridge over Thane Creek the total length of bridge above 1850 mtrs., superstructure Pre stressed concrete precast box girders of 53.5 m length.</b>
Client for the project	Govt. of Maharashtra
Project Description	<b>The total length of bridge above 1850 mtrs., superstructure Pre stressed concrete precast box girders of 53.5 m length.</b>
Designation / Position held in Project	Project Manager
Duties and responsibility of key-personnel in the project	As Project Manager, responsible for shifting of reinforcement cage alongwith cables; Shutter alignment; Concrete; Prestressing in 3 stages with mutijack system; Lifting and shifting of box girder(app.800 mtrs) from casting bed to launching Jetty.- lateral & longitudinal by100 mtrs.; Grouting of Cables; launching by barge mounted hydraulic crane to suit - tidal variation; Casting site ballast retaining walls on launched girders, in final location, placing of precast ducts to facilitate the service; Review the safety measures implemented; Ensure execution of works at site as per specification and standards, various accident and other insurance coverages.

Period from: 1989	Period to: 1994
Name of Employer	M/s Afcons Infrastructure Pvt. Ltd.
Name of the Project	<b>Konkan Railway Projects, Mangalore Udipi Section - Pavanji Bridge and Mulki Bridges.</b>



*Bluel*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





Client for the project	South Central Railway
Project Description	<b>Konkan Railway Projects, Mangalore Udipi Section - Pavanji Bridge and Mulki Bridges.</b> Match cast Casting through 3.5 mtrs high which function as casting unit as well as reaction structure for pretension systems, & to facilitate as stream curing container (steaming period of app.15-17 hours)
Designation / Position held in Project	Construction Engineer
Duties and responsibility of key-personnel in the project	As <b>Construction Engineer</b> , responsible for reinforcement checking/cutting, bending, anti-corrosions treatment, cage tying; Pre-stressed wire introduction as per design requirement along with debonding arrangement; Placing of prefabricated cage in the casting bed, pre-tensioning of tendons with coupler system (i.e with two different tendons type I engaged with coupler pre-stressing assembly end and permanent tenderers for girder in Reinforcement cage, 3 stage pre-stressing; Shutter alignment, concreting with high grade concrete; Steam curing with steaming arrangement i.e covering through unit with temporary roof element covering with tarpaulins, boiler unit, pipelines to control steam at different location; Water curing for normalization of girder/unit; Prestress transfer to girder unit by sequential method from either end simultaneously to have safe transfer of prestress and avoid any shifting girder unit in either direction during the transfer of prestress girder; Shifting of girder from casting bed by gantry transfer of girder to stacking bed; Review the safety measures implemented; Ensure execution of works at site as per specification and standards, various accident and other insurance coverages.

Period from: 1989	Period to: 1994
Name of Employer	M/s Afcons Infrastructure Pvt. Ltd.
Name of the Project	<b>Konkan Railway Project: Savitri Bridge, Vinhere Bridge, Kawale Bridge 15 spans of 22.8 m each. Vinhere bridge 45 spans of 22.8 m each and Kawale bridge 4 spans of 22.8 mtrs. each. Superstructure consists of pre stressed concrete I Girder &amp; RCC slab.</b>
Client for the project	South Central Railway
Project Description	Konkan Railway Project: Savitri Bridge, Vinhere Bridge, Kawale Bridge 15 spans of 22.8 m each. Vinhere bridge 45 spans of 22.8 m each and Kawale bridge 4 spans of 22.8 mtrs. each. Superstructure consists of pre stressed concrete I Girder & RCC slab.
Designation / Position held in Project	Construction Engineer
Duties and responsibility of key-personnel in the project	<b>Responsibilities includes:</b> Lifting of girder from stacking yard, placing on the transfer trollies, transportation of girder from stacking yard to launching girder lifting and shifting girder with monorails, in the launching girder, lowering to span, side shifting to desired location on sliding track, lowering on Elastomeric Bearing; Diaphragm steel, tying, form fixing, concreting insitu; Expansion joint fixing; Deck slab wearing coat casting; Span Load Test, Pile load testing, lifting; Shifting of girder from casting bed by gantry transfer of girder to stacking bed; Review the safety measures implemented; Ensure execution of works at site as per specification and standards, various accident and other insurance coverages.

## Languages

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Marathi	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent





*(Signature)*  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.






**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

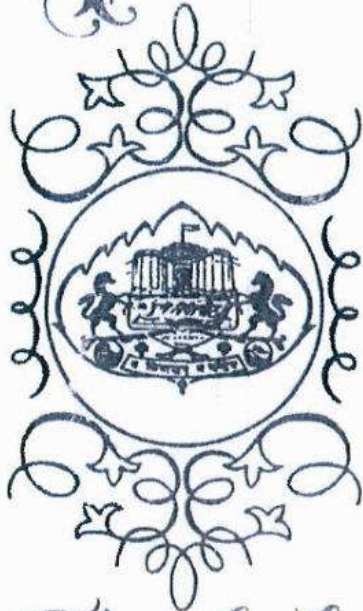
<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



# University Of Poona



We, the CHANCELLOR,  
VICE-CHANCELLOR  
and the MEMBERS  
of the EXECUTIVE COUNCIL,  
on the recommendation of the SENATE  
of the UNIVERSITY of POONA certify  
that Bokil  
Atul Shrinivas  
of Maharashtra Institute of Technology.  
Pune having been examined  
for the Degree of

## Bachelor of Engineering

(IN ITS Civil Construction BRANCH)

in April 1989 and having passed in  
the First Class

the said degree has been  
conferred on him at PUNE on Twentyseventh December  
One Thousand Nine Hundred Ninetyone  
IN TESTIMONY whereof are set the Seal of the  
University and the Signature of the Vice-  
Chancellor.



*[Signature]*

Chief Engineer  
Engineering Division  
M.M.R.D.A.



*[Signature]*  
VICE-CHANCELLOR.

17-JUN-2005 17:22

B

1234

P.01

स्थायी खाता संख्या

/PERMANENT ACCOUNT NUMBER

AEQPB0653J



नाम /NAME

ATUL SHRINIVAS BOKIL

पिता का नाम /FATHER'S NAME

SHRINIVAS RAGHUNATH BOKIL

जन्म तिथि /DATE OF BIRTH

22-07-1964

हस्ताक्षर /SIGNATURE

*Bokil*

*[Handwritten Signature]*

आयकर आयुक्त-I, पुणे

Commissioner of Income-tax I, Pune

To  
Mr. Lourense

From A.S. Bokil.

17-JUN-2005 17:18

1234

P.01



*[Handwritten Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





# STUP Consultants Pvt. Ltd.

Five Decades of Sustainable Design of Infrastructure & Real Estate through Innovation



16 June, 2014

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. A.S. Bokil is working with this organization as Contract Specialist / Senior Quantity Surveyor from 1994 – till date on various highways/ bridge and other infrastructure projects. Some of the important projects undertaken by him are:

- **Independent Engineer services for 4-laning of Lucknow - Raebareli Section of NH – 24 A from Km 12.700 to Km 82.700 on from km. 12.700 to km. 82.700 (project length: 70 km.) on BOT (Annuity) under NHDP Phase IV A In the State of Uttar Pradesh. Client: National Highways Authority of India (NHAI)**
- **Independent Engineer (IE) services for 6/4-laning of Km. 198/00 to Km. 263/00, Bharuch-Surat Section of NH-8 during Operation & Maintenance period In Gujarat on BOT basis, package-II on DBFOT Basis under NHDP Phase-V. Client: National Highways Authority of India (NHAI)**
- **Project Management Consultancy services for Manor- Wada- Bhiwandi Road on SH-34 in the State of Maharashtra. The project involves widening of Manor - Wada (24.25 kms) and Wada Bhiwandi Road (40.07 Kms) on SH-34 and SH-35 respectively, and to convert it into a 4 lane highway on Built Operate Toll (BOT) basis. Client: Supreme Infrastructure Ltd.**
- **Consultancy services for Detailed Engineering and Project Management consultancy services for 4-lane Elevated Road (4.0 kms.) on Sahar Road (upto Chattrapati Shivaji International Airport) - Category 'C'. Client: Mumbai Metropolitan Road Development Authority (MMRDA).**
- **Detailed Engineering Design & Project Management Services for the work of Construction of 2.50 Km. Elevated 4-lane Eastern Freeway section from Panjarpole to Chembur Mankhurd Link Road Km. 0/000 to 2/500. Client: Mumbai Metropolitan Road Development Authority (MMRDA).**
- **Consultancy services for Detailed Engineering Designs, Bid Documents and Project Management services for the connector between Bandra Kurla Complex 'G' Block to Eastern & Western Express Highways including all structures and at grade roads. Client: Mumbai Metropolitan Road Development Authority (MMRDA)**
- **Project Management Consultancy including construction supervision for the NHAI project pertaining to "Six Lanning of Surat – Dahisar section of NH-8 from Km. 381.600 to Km. 502.000 (length: 120.400 Kms.) in the state of Maharashtra to be executed as BOT (Toll) basis on DBFO pattern under NHDP Phase – V. Client: Modern Road Makers Pvt. Ltd.**
- **Project Management Consultant for the 1535 m long Bhosari Flyover on Pune – Nashik Road (NH- 50) in the State of Maharashtra. Client: Pimpri Chinchwad Municipal Corporation.**



Contd....2

1112, Vishal Tower, District Centre, Janakpuri, New Delhi - 110 058, India. Tel : 011-45616200/300, 25614196, 25536108 Fax : 011-25507017. E-mail : delhi@stupmail.com

Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumabi - 400 021, India. CIN : U74909MH1963PTC012649  
Tel : 022-40868686 Fax : 022-22048424 E-mail : mumbai@stupmail.com www.stupco.com

Los Angeles • Paris • Ahmedabad • Bengaluru • Chennai • Guwahati • Hyderabad • Kolkata • Mumbai • Navi Mumbai • New Delhi • Pune • Port Louis • Muscat



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

- 2 -

- Detailed Engineering and Project Management services for 4-Laning of Lebad-Jaora Section of SH- 31 between Ch. 0.00 to Ch. 125 (project length: 125 kms.) on BOT Basis in the State of Madhya Pradesh. Client: Madhya Pradesh Road Development Corporation / Pan India Infrastructure Ltd.
- Independent Engineer for the work of 4-laning and Improvement to Mumbai – Pune Section of NH-4 (km 131/200 to 20/400) (total length of project: 241 kms) with self finance alongwith award of O & M and to rights on NH-4 and existing Mumbai – Pune Expressway. Client: Maharashtra State Road Development Corporation Ltd.
- Consultancy Services for widening and construction of 4-lane 33 kms. LBS Marg from Sion to Mulund funded by World Bank. Client: Mumbai Metropolitan Region Development Authority.
- Design and Project Management Consultancy Services for 4-laning of Satara – Kolhapur State Border Section of NH-4 from Km 725 to Km 592/240 (project length: 28 km.) under Package V. Client: Maharashtra State Road Development Corporation Ltd.
- Mumbai-Pune Expressway – Section 'A': Kon to Chowk (Six Lanes Road with Rigid Pavement) on BOT basis in the State of Maharashtra. Client: Maharashtra State Road Development Corporation Ltd.
- Construction Supervision of 4-laning and strengthening of existing two lane stretches from Ratanpur to Gandhinagar (km 388.4 to km 495) on NH8 in the state of Gujarat (Contract Packages UG/3 & UG/4). Client: National Highways Authority of India (NHAI).
- Project Management Consultancy Services for Construction of new 2 lane bridge across Kshell Creek on BOT Basis. Client: Ideal Road Builders Ltd.

This experience certificate is issued on the request of various clients.

For STUP Consultants Pvt. Ltd.

(N. Bandyopadhyay)  
Director.



*beal*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



<b>Curriculum Vitae (CV) for Proposed Key Staff</b>	
1. Proposed Position	: K-7: Safety Engineer
2. Name of Staff	: Shirish Narayan Pote
3. Date of Birth	: 14/03/1965
4. Nationality	: Indian
5. Education Qualification	: <ul style="list-style-type: none"> <li>• Diploma in Civil and Rural Engineering (DCRE) in 1984</li> <li>• Graduate in Civil Engineering from J.R.N Rajasthan Vidyapeeth University 2015</li> </ul>
Contact Address with Phone and mobile numbers	: C/o STUP Consultants Pvt. Ltd. Plot No. 22A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai 022-4088 7777
6. Key Qualification	: Have more than 35 Years of experience in Civil Engineering. Supervised/ carried out various activities such as foundation (well open & pile foundations,) RCC substructure, RCC superstructure including integrated superstructure, PSC (I girder, T girder, Box girder and segmental) steel composite superstructure for ROB, launching of PSC I girders, T girders & steel superstructure for ROB. Construction of Road work to NH standard. Fixing of barrier, View cutter etc. Preparation of estimates, Tenders & quantity surveying. Also contractor and Client Billing, contract monitoring and administration. Experience in Fabrication & laying of 1200/1600 mm diameter M.S pipe Lines. Client correspondence etc. Preparation & Implementation of Safety Management Plan during project implementation period. Approval for the Traffic safety features including traffic control during construction as proposed by the EPC.
7. Employment Record	:
From March 1998	: To till date
Employer	: STUP Consultants Pvt. Ltd.
Position held	: Senior Resident Engineer (Bridges) / Resident Engineer (Bridges)
From April 1987	: February 1998
Employer	: M/S V.M. Jog Engineering Ltd.
Position held	: Project Engineer
From October 1984	: March 1987
Employer	: Executive Engineer, P.W.D Amravati
Position held	: Engineer (Temporary Basis)



List of projects on which the Personnel has worked:



*Shirish*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





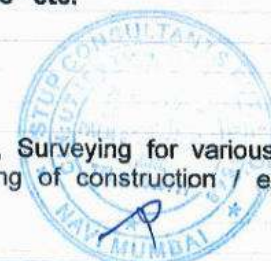
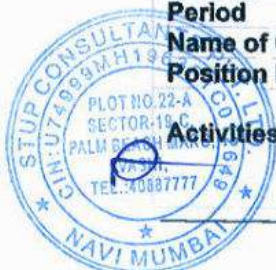
<b>Name of Assignment / Project</b>	: <b>Detailed Engineering and Project Management consultancy for the connector between Bandra-Kurla Complex (BKC)'G' block and Eastern Express Highway (EEH)</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: April 2015 - To till date
<b>Name of Client</b>	: Mumbai Metropolitan Region Development Authority
<b>Project Description</b>	: Project Cost - Rs 155.70 Crores 2+2 Lane bridge with Median; Length of project including ROBs & Approaches ->1622 m; No. of ROBs -2 Nos. having length 52.677m & 60.00m each; Bridge Length in Mithi River - Pile bent 2200mm diameter with picr cap; Pile foundation for rest of flyover - 1200 mm diameter; RCC substructure & 3 portal piers; Steel (plate girders) composite superstructures for both ROB; Noise barrier wherever required; Segmental superstructure with overhead launching girder; Facade Lighting on Mithi river spans and spans on EEH.
<b>Position Held</b>	: Resident Engineer (Bridges)
<b>Activities performed</b>	: Overall monitoring/supervision of the project. Contract monitoring & administration. Client/contractor's correspondence etc. Follow up with various local & Govt Authorities for various permission. Also responsible for monitoring the comprehensive Health and safety program as proposed by the contractor which would help to avoid and reduce the accidents; establishing the safety programmes, identification of safety hazard which would be made by contractor prior to the construction; Carry out monthly safety audits on site during construction and operation through safety Engineer; Ensure that the contractors provide sufficient safety devices and sign boards for own safety as well as safety of genera traffic and pedestrians through the review of the method statement and periodical site patrol; Ensure that the contractors provide sufficient safety devices to the construction Engineers, subordinate staff & labour working on the site; Ensure adherence to the safety norms prescribed in the relevant codes / specifications in the bid documents.
<b>Name of Assignment / Project</b>	: <b>Project Management Consultancy services for construction of Eastern Freeway section 3 from Panjarpole Junction to Mankhurd Link Road</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: December 2009 to April 2015
<b>Name of Client</b>	: Mumbai Metropolitan Region Development Authority
<b>Project Description</b>	: Project Cost - Rs.315 Crores 2+2 Lane bridge with Median and 2 lane for structural ramp; Length of 2 lane bridge - 3 Ramps -1.77Km.; Type of foundations - 1200 mm diameter piles & open foundation; RCC substructure for main freeway & ramp * Integrated structure for one ramp; Segmental box superstructure for main freeway structure with overhead launching girder and steel composite structure for 2 spans; T girder superstructure for all 3 nos. 2 lane ramps except 160 m of integrated superstructure of one ramp; Fixing Noise Barrier; 2+2 lanes rigid pavement from tunnel end to panjarpole and construction of 6 m wide service road; Assisting MMRDA in R&R and dismantaling of 486 nos. hutments.
<b>Position Held</b>	: Senior Resident Engineer (Bridges)
<b>Activities performed</b>	: Overall monitoring / supervision of the project. Contract monitoring & administration. Client/contractor's correspondence. Follow up with various agencies, local bodies & Govt. Dept for various permission. Also responsible for monitoring the comprehensive Health and safety program as proposed by the contractor which would help to avoid and reduce the accidents; establishing the safety programmes, identification of safety hazard which would be made by contractor prior to the construction; Carry out monthly safety audits on site during construction and operation through safety Engineer; Ensure that the contractors provide sufficient safety devices and sign boards for own safety as well as safety of genera traffic and pedestrians through the review of the method statement and periodical site



*Signature*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



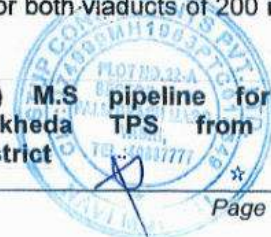
	patrol; Ensure that the contractors provide sufficient safety devices to the construction Engineers, subordinate staff & labour working on the site; Ensure adherence to the safety norms prescribed in the relevant codes / specifications in the bid documents.
<b>Name of Assignment / Project</b>	: <b>Four Laning of SH 54 from km 6.4 to km 14.55 and construction of new four lane Aamara Marg including 6 lane major bridge across Panvel Creek</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: March 2008 to November 2009
<b>Name of Client</b>	: National Highway Authority of India (NHAI) & JNPT-Mumbai
<b>Project Description</b>	: Project Cost - Rs. 127.50 Crores; Four Laning of 8.15 Km of SH 54 with flexible pavement; Ground improvement of Km 6.4 to 8.4 of SH 54 With Band drains; Construction of new four lane Aamra Marg with rigid pavement; Construction of six lane major bridge across Panvel Creek; Well Foundation with RCC substructure and superstructure is PSC box.
<b>Position Held</b>	: Quantity Surveyor
<b>Activities performed</b>	: As a quantity surveyor billing, progress monitoring, contracts management and administration. Client & Contractor's correspondence. Follow up with various agencies, local bodies & Govt. Authorities for work permission.
<b>Name of Assignment / Project</b>	: <b>Widening of LBS Marg section from Sion to Kanjurmarg (Gandhinagar Junction)</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: November 2004 to February 2008
<b>Name of Client</b>	: Mumbai Metropolitan Region Development Authority
<b>Project Description</b>	: Widening of LBS Marg sion to Kanjurmarg Section to 30 m D.P width; One lane of Rigid Pavement & one lane of flexible pavement on either side of Median; Modification of SWD system as per recommendations of IIT Mumbai.
<b>Position Held</b>	: Resident Engineer
<b>Activities performed</b>	: As a Resident Engineer of the section overall monitoring of the Project progress/ Supervision, quality control, contract monitoring & administration. Follow up with various agencies, local & Govt. Authorities and client / Contractor's correspondence.
<b>Name of Assignment / Project</b>	: <b>Four laning of NH-17B from Verna Junction to Marmugaon Port (Port connectivity project)</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: March 2002 to October 2004
<b>Name of Client</b>	: National Highway Authority of India ) / Marmugaon Port Road Company Ltd.
<b>Project Description</b>	: Project Cost - Rs. 50.00 Crores; Construction of 4 lane NH-17B from Verna Junction in Goa (a part of port) upto Varnapuri Junction; Construction CD works, minor bridges, underpass and Subways etc.
<b>Position Held</b>	: Road Engineer
<b>Activities performed</b>	: As a Road Engineer responsible for construction of highway, Carrying out field tests etc.
<b>Name of Assignment / Project</b>	: <b>Preparation of estimates, BOQS, Quantity, Surveying for various project preparation of Tender documents, checking of construction / execution drawings "As building Drawings" etc.</b>
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: January 2001 to February 2002
<b>Name of Client</b>	: Various Clients
<b>Position Held</b>	: Sr. Construction Engineer
<b>Activities performed</b>	: Preparation of estimates, BOQS, Quantity, Surveying for various project preparation of Tender documents, checking of construction / execution drawings "As building Drawings" etc.







<b>Name of Assignment / Project</b>	: Construction of Varthur underpass of size 40m x 27m; Construction of RCC Retaining Walls on both sides of underpass i.e. 1000m x 4 = 4000m.
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: March 2000 to December 2000
<b>Name of Client</b>	: Bangalore Development Authority Project Cost - Rs. 6.00 Crores;
<b>Project Description</b>	: Construction of Varthur underpass of size 40m x 27m; Construction of RCC Retaining Walls on both sides of underpass i.e. 1000m x 4 = 4000m.
<b>Position Held</b>	: Sr. Construction Engineer
<b>Activities performed</b>	: Overall incharge of site overall supervision of site overall supervision of site from foundation to superstructure quantity control & contract administration.
<b>Name of Assignment / Project</b>	: Construction of Major Bridge across Patalganga river and ROB near village Kharpada on Panvel-Mahad-Panji Road on NH-17 on B.O.T. basis.
<b>Employer</b>	: M/s. STUP Consultants Pvt. Ltd.
<b>Period</b>	: March 1998 to February 2000
<b>Name of Client</b>	: MORT & H Govt of India, PWD, Govt. of Maharashtra Project Cost - Rs. 43.00 Crores;
<b>Project Description</b>	: First B.O.T project in Maharashtra; The project was completed in 19 months, well ahead of scheduled completion of 24 months; A bridge project in which river bridge, viaduct and ROB is included; Length of bridge including ROB is 813.7 m; Approach road on either side of bridge-586.3 m; 3 types of foundations i.e. open, pile and well; Superstructure - RCC & PSC I girders.
<b>Position Held</b>	: Project Manager (Sr. Construction Engineer)
<b>Activities performed</b>	: Worked as a project Manager of PMC. Overall Project Monitoring & Supervision. Quality Control, Contract management and administration.
<b>Name of Assignment / Project</b>	: Construction of Major Bridges CD-01, CD-02 and CD-10 on Palm Beach Marg, Navi Mumbai
<b>Employer</b>	: M/s. M Jog Engineering Ltd
<b>Period</b>	: November 1995 to February 1998
<b>Name of Client</b>	: CIDCO of Maharashtra Ltd
<b>Position Held</b>	: Project Engineer
<b>Activities performed</b>	: Overall supervision of the project including quantity survey, client billing, contract monitoring & administration.
<b>Name of Assignment / Project</b>	: Construction of Kalwa Creek , Bridge near Thane, Maharashtra
<b>Employer</b>	: M/s. M Jog Engineering Ltd
<b>Period</b>	: November 1994 to October 1995
<b>Name of Client</b>	: Public works Department, Govt. of Maharashtra
<b>Name of Client</b>	: Project Engineer
<b>Activities performed</b>	: Worked for overall execution of open foundation, RCC substructure & PSC superstructure (Box girders) contract monitoring & administration.
<b>Name of Assignment / Project</b>	: Construction of viaducts at Km 178 & 179 for Konkan Railway project, near Ratnagiri
<b>Employer</b>	: M/s. M Jog Engineering Ltd
<b>Period</b>	: July 1993 to October 1994
<b>Name of Client</b>	: Konkan Railway Corporation Ltd
<b>Position Held</b>	: Senior Engineer
<b>Activities performed</b>	: Worked for execution of pile & open foundation, substructure pier with slip form technique, PSC PSC 'I' girders etc, for both viaducts of 200 m length each.
<b>Name of Assignment / Project</b>	: Providing & Laying 1600 mm (ID) M.S pipeline for water supply to 2 x 210MW Khaperkheda TPS from Pench Irrigation Project at Kanhan in Nagpur District





Chief Engineer  
Engineering Division  
M.M.R.D.A.




<b>Employer</b>	: M/s. M Jog Engineering Ltd.
<b>Period</b>	: January 1990 to June 1993
<b>Name of Client</b>	: Irrigation Dept. Govt. of Maharashtra
<b>Position Held</b>	: Engineer
<b>Activities performed</b>	: Worked for civil work of pipeline laying & concreting p work, quality control, quantity survey, client billing, p contract monitoring & administration.
<b>Name of Assignment / Project</b>	: <b>Providing &amp; Laying 2 rows of 1200 mm dia (ID) MS Pipeline including maintenance road, major bridges (2 bridges-one for road &amp; one for pipeline having 250 m length each ) etc for 2 x 210 Mw Khaperkheda Thermal Power in Nagpur District</b>
<b>Employer</b>	: M/s. M Jog Engineering Ltd
<b>Period</b>	: April 1987 to December 1990
<b>Name of Client</b>	: Maharashtra State Electricity Board
<b>Position Held</b>	: Jr. Engineer / Asst. Engineer
<b>Activities performed</b>	: Supervision of pile foundation & substructure, Road work. Also carried out quality control for the project and quantity survey/ billing of the project. Civil work for pipeline work.
<b>Name of Assignment / Project</b>	: <b>Preparation of Estimates and Supervision of following works: (1) Construction of Talegaon-Donad Road (Missing Link of SH) including construction of minor bridges, Culverts in Amravati District. (2) Construction Of Samaj Mandir - 3 nos. under Chandur Rly Sub Division. (3) Maintenance of State Highways &amp; Govt. Office buildings under PWD Sub Division Chandur Rly, Dist:-Amravat</b>
<b>Employer</b>	: Executive Engineer, P.W.D Amravati
<b>Period</b>	: October 1984 to March 1987
<b>Name of Client</b>	: Executive Engineer, P.W.D Amravati
<b>Position Held</b>	: Engineer (Temporary Basis)
<b>Activities performed</b>	: Construction Supervision of the project

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



S.No. 57472

Enrolment No. DE21263928

**JANARDAN RAI NAGAR RAJASTHAN VIDYAPEETH UNIVERSITY**  
 (Deemed to be)  
 UDAIPUR (RAJASTHAN) INDIA  
 (Established Under Section 3 of the UGC Act, 1956 vide Notification  
 No. P.9-5/84-U.3, January 12, 1987 of the Government of India)



Certified that P.DTE. SHIRISH. NARAYAN  
 SID of P.DTE. NARAYAN SHANKAR  
 having attended the FOUR YEAR'S course and passed  
 the examination in the year 2015 from this  
 university has been awarded the degree of

**Bachelor of Technology**

in CIVIL (LATERAL ENTRY) Engineering

Udaipur  
 Date 03-11-2016



*[Signature]*  
 Vice-Chancellor



*[Signature]*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



# Board of Technical Examinations

Maharashtra State



Dr. P. ...  
P.O. ...  
104 ...



Engineer  
Engineering Division  
M.M.R.D.A.

*Shriish Narayan Jote*

*Sri ... the withinsigned having been examined for the Diploma in Civil and Rural Engineering and having been adjudged to have passed in the First Class, has been awarded the*

## DIPLOMA IN CIVIL AND RURAL ENGINEERING

*by the Board of Technical Examinations, on behalf of the Government of Maharashtra, on the fifth day of the month of October, in the year One thousand nine hundred and eighty four. In testimony whereof is set the signature of the Chairman.*



*Name of the Institution*

*[Signature]*

*Chairman*

**Dr. Panjabrao Deshmukh Polytechnic,**  
**AMRAVATI. (M. S.)**  
**TRANSFER CERTIFICATE**

No. 230

Date 20/10/84

CERTIFIED THAT Shirish Pate

Son of Shri Narayanrao Pate

Was a student in the Dip. Course in Civil & Rural Engg.  
of this Institute From 19 80 to 19 84

The Institute Session extends from July 1983 to Nov. 1983

He leaves ( Reason ) on his own record

having Passed the six semester examination  
held in January 1984 in Pass Division

OR having failed in the \_\_\_\_\_  
\_\_\_\_\_ held in \_\_\_\_\_ 19 \_\_\_\_\_

His Conduct as far as known to the Principal was Good

He paid all charges due from him to this institute up to Nov. 1983

Date of Birth ( in words ) fourteenth of March A.H.

sixty five ( in figures ) 14-3-1965

[Signature]  
PRINCIPAL

Dr. Panjabrao Deshmukh Polytechnic,  
Dr. Panjabrao Deshmukh  
Polytechnic, AMRAVATI

Shri Shivaji Printing Press, Amravati.




[Signature]  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





### Curriculum Vitae (CV) for Proposed Key Staff

<b>Proposed Position</b>	:	<b>K-8: Geo-Technical / Foundation Engineer</b>	
<b>Name of Firm</b>	:	<b>STUP Consultants Pvt. Ltd.</b>	
<b>Name of Staff</b>	:	<b>Dr. Sandeep Bhosale</b>	
<b>Profession</b>	:	<b>Geotechnical Engineering</b>	
<b>Date of Birth</b>	:	<b>6th January 1972</b>	
<b>Years with Firm/Entity</b>	:	Available for the Assignment	
<b>Nationality</b>	:	Indian	
<b>Membership in Professional Societies</b>	:	Member of Indian Geotechnical Society (MIGS) : LM - 3983	
<b>Key Qualifications</b>	:	Total Professional Experience 23 Years in Highways, Ports, Railways infra, Factories and buildings	
<b>Education</b>	:	<ul style="list-style-type: none"> <li>• Ph. D. (Geotech. Engineering ), Mumbai</li> <li>• M. Tech. (Geotechnical Engineering) IIT Bombay in Jan 1996</li> <li>• B.E in Civil Engineering (VJTI, Bombay University).in May 1994</li> </ul>	
<b>Publications</b>	:	<ul style="list-style-type: none"> <li>• "A Simplified Approach for Estimating Settlement of Soft Clay under Vacuum Consolidation." KSCE Journal of Civil Engineering,– Geotechnical specialisation, Springer, 23(5), 2017-2024, DOI:10.1007/s12205-019-0001-x</li> <li>• "Experimental studies on soft marine clay under combined vacuum and surcharge preloading with PVD." International Journal of Geotechnical Engineering, pp. 1-10, DOI: 10.1080/19386362.2018.1496004.</li> <li>• "Ground improvement of soft Clay by vacuum preload – A Review" , Proceedings of Indian Geotechnical Conference, Pune-2015, dated 18thDecember 2015</li> <li>• "Stabilisation of deep soil cut using micropile and soil nailing" 7th International Conference on Case Histories in Geotechnical Engineering, Chicago, 2013.</li> <li>• "Ground Improvement Using Vibro Stone Columns – Capacity of Vibro Stone Column" Indian Geotechnical Conference Guntur, AP, 2009</li> <li>• "Underpinning of Hospital building using Root Pile" Indian Geotechnical Conference, Mumbai, 2000.</li> <li>• "Pile Load Tests Using Pre-stressed Anchors" Indian Geotechnical Conference, Mumbai, 2000.</li> <li>• "Innovative Technique of Micropiling" Indian Geotechnical Conference, 1997. Won the Award from Indian Geotechnical Society as the Best Paper Presented At I.G.C. Baroda in 1997</li> </ul>	



*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



**Employment Record :****From: August, 2016****To: Available for assignment on SayE Geotechnical****Employer****Position Held**

Principal Geotechnical Consultant

**Description of current assignments**

Designing and recommending, monitoring of the various schemes for different projects in the Infrastructure ( Highways, Railways, Ports , Oil Tankages many more) in the field of Ground engineering, serving the various organizations ( MCGM, KRCL, NHAI, Metrorails, Power corporations etc ) commanding the activities. Deep foundation like Pile foundations, wells etc, Shallow foundations. Ground Improvements in all the worldwide possible methods like Vibrostonecolumn, Vacuum consolidation with and without PVD, Dynamic Compaction, Jet grouting, etc. Mega Pile load test having test load more than 1000 MT Reinforced Earth Retaining walls, Use of Geosynthetics and geomembrane for construction industry Rock fall mitigation and slope protection measures Underground construction of basement, side protections with Piles and anchors Consolidation , curtain grouting schemes for irrigation projects Tunnels for metro and highways.

**Related Work Experience (in years)**

Total Professional Experience 23 Years in Highways, Ports, Railways infra, Factories , buildings

**Details of the Related Work Experience:****From: April 2016****To: Available for assignment on SayE Geotechnical****Employer****Position Held**

Principal Geotechnical Consultant

**FEW IMPORTANT PRESTIGIOUS PROJECTS**

**Western Freight Corridor – PHASE 2 Vaitarana to Sachin (CTP 12) and Sachin to Varodara (CTP 13) Year: October 2018 for DFCC**

Preparation of Geotechnical Interpretative Report for Major Bridges; Major RUBs; Minor Bridges; Minor RUBs; RFOs.

**Design & construction of Metro Line 2 B from BKC to Chembur for Mumbai METRO RAIL CORPORATION LTD.**

Responsible for interpretation of the Investigation Reports; risk assessment of the existing structures. The project involves the design of underground Stations; inlet shafts and cut and covers tunnels.

**Design & construction Versova Bandra Sea Link for Reliance – Astaldi Infra- MMRDA**

Responsible for prepretation of the Proposals for the Stacking yard; risk assessment of the existing structures.

**Design & construction of tunnel by shield TBM, tunnels, stations (both including) for underground works on Lucknow package UGC 6. For Tender for Tata Projects India Ltd.**

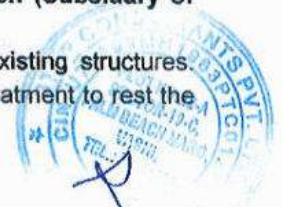
**Lucknow METRO RAIL CORPORATION LTD.**

Responsible for interpretation of the Investigation Reports; risk assessment of the existing structures. The project involves the design of underground Stations; inlet shafts and cut and covers tunnels.

**Slope Protection works for left bank of Amikhadi River , For Narmada Cleantech (Subsidiary of GIDC)**

Responsible for interpretation of the Investigation Reports; risk assessment of the existing structures.

**Design & construction of Bank protection , Reinforced Soil slopes along with Ground treatment to rest the foundation of the Embankment as per Relevent IRC codes. Pile / Open foundation**



*Sandeep Bhosale*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



**Construction of Major Bridge across River Purna on Shegaon Akola Road dist Akola.for PWD , Maharashtra**

Design & construction of Reinforced Soil slopes along with Ground treatment to rest the foundation of the Embankment as per Relevant IRC codes.Pile / Open foundation

**Sloe protection measures for Service reservoirs for various MCGM location for TPF Engineering**  
ion of Hill slope mitigation work using high strength boulder nets, Prestresses anchors etc.

**Sloe protection measures for Malabar hill using Soil Nail – shotcrete. For MCGM –**  
Responsible for interpretation of the Investigation Reports; risk assessment of the existing structures.  
Design & estimation of Hillslope mitigation work using high strength Prestresses anchors, shotcrete etc.

**Sloe protection measures for Middle Valtarana approach road for VJTI Mumbai**  
Responsible for interpretation of the Investigation Reports; risk assessment of the existing structures.  
Design & estimation of Hill slope mitigation work using high strength Prestresses anchors, shotcrete etc.

**MANY Ground Improvement project Design and monitored using PVD and Vacuum consolidation on NH 4 B and SH 53 – (Panvel – Uran road) for NHAI through JMMIPL, TIPL**

<b>From: February 1996</b>	<b>To: March 2016</b>
<b>Employer</b>	<b>Sohams Foundation Engineering Pvt. Ltd.</b>
<b>Position Held</b>	<b>Technical Director / Geotechnical Engineer</b>

**FEW IMPORTANT PROJECT**

**Construction of new Dry Bulk Terminal for Iron Ore and Coal IN THREE PHASES**

**Client: Dhamra Port Co Ltd / Adani Projects with Authority Engineer – PMC projects Ltd**

**Project Features:** The Dhamra Port is a major newly developed Port in Bhadrak district, Odisha, India, on the shore of the Bay of Bengal about seven kilometers from the old port of Dhamra. Phase-I Involved two fully mechanized berths of 350 meters each along with backup facilities for handling imports of coking coal, steam/thermal coal, limestone and export of iron ore.

**Activities Performed:**

As a Geotechnical Engineer, responsible for Design of Ground Improvement Scheme using Prefabricated Vertical Drains with vacuum loading. Stability Analysis using Geoslope 5, Review and check the deliverable drawings, Site support for technical queries, Analysis of Field Tests - SPT / CPTU, Monitoring data of Instruments - Piezometers; Settlement Markers; Back Analysis of Data.

**Construction of Hard Stand at Mathura Refinery (IOCL)**

**Client: G R Construction / Infrastructure with Authority Engineer : Technip**  
Ground Improvement

**Six/Eight Laning of Muscut – Sallah Road undr Municipal corporation of Salah**

**Client: SMC Infra**

**Project Features:** The project involved the widening of expressway of approximately length of 20 kms and construction of 24 kms of service road. As a Geotechnical Engineer, responsible Design of Geogrid Reinforced Soil Wall for the approaches of Flyovers using BS 8006, Review of the drawings, review of the sub-soil data for the flyovers and suggestion of the ground improvement technique if needed

**6.70 MLD STP, at Mhapusa Goa**

**Client: Project Director, ( JICA Loan Project), PWD ,Goa /SFC Environmental Technologies Pvt. Ltd**

**Activities Performed:**

As a Geotechnical Engineer, responsible for Design of Vibrostone colum , providing GIR and technical backup during execution

**125 MLD Intake channel works for Madgaon City at Sanguem Goa**







**Client: SFC Environmental Technologies Pvt. Ltd**

As a Geotechnical Engineer, responsible for Design Landslide mitigation and slope stability analysis, and recommending slope stabilization measures for Intake Channel constructed for 125 MLD water Treatment plant at Xelpem, Goa

**Six Laning of NH 4 from Pune to Satara on DBFOT Pattern under NHDP Phase V from km125+000 to km 865+000**

**Client: Reliance Infrastructure Ltd with Authority Engineer – Aarvee associates**

**Project Features:** The project involved the widening of expressway of approximately length of 140.350 kms and construction of 244 kms of service road, building 49 grade separated structures, 58 bridges and upgradation of two existing toll plazas, deep foundation

**Six-Laning of Bhubaneswar- Chandikhol Section of NH 5 from km. 263/00 to 502/00 in the state of Odisha**

**Client: Shri Jagannattha Expressway Pvt Ltd./ Simplex Infrastructure Ltd.) with Engineer – Stup Consultants**

**Project Features:** The project involved Six Laning of Section of NH 5 approximately length of 50kms. deep foundation

As a Geotechnical Engineer, responsible for Design of Geogrid Reinforced Soil Wall for the approaches of Flyovers using BS 8006, Stability Analysis using Geoslope 5, Review and check the deliverable drawings, Site support for technical queries, Design of the treatment required to improve the safe bearing capacity of base to support the Reinforced Soil Wall, Estimation of quantities, Preparation of Method Statement, Monitoring the site progress. Technical coordination with client consultant.

**Ground improvement works for SIOPP Project**

**Client: DCW Ltd with Engineer Thysekrruup**

**Project Features:** The work involved installation of a Synthetic Iron Oxide plant. The plant consisted different units as Leach Liqor Purification, Pigment Production, Filtration, drying and Packing, Filtration, Drying and Packing, Plant Substation, Main Control Room, Calcium Chloride Plant, Process / Water Tank; Cooling Tower; Chiller Plant & Offices covering area of 14400 sqm.

As a Geotechnical Engineer, responsible for Design of Vibro Stone Columns for various units of Plant. The stone columns were designed based on the geotechnical data provided. Analysis of load test reports on stone column. Assist the execution team for proper execution. Technical coordination with client

**Ground Improvement for IOCL Paradip**

**Client: VA Tech Wabag Ltd with Engineer Foster wheeler**

**Construction of LPG Mounted Bullter at Manglore Refinery**

**Client: G R Constrction / Infrastructure with Engineers India lLtd (EIL)**

As a Geotechnical Engineer, responsible for Design of Ground Improvement Scheme using various method for construction of LPG mounted Bullet ,preparation of Geotechnical Interpretative report, Stability Analysis using Geoslope 5, Review and check the deliverable drawings, Site support for technical queries, Analysis of Field Tests - SPT / CPTU, Back Analysis of Data.

**Construction of Hard Stand at Cochin Refinery**

As a Geotechnical Engineer, responsible for Design of Ground Improvement Scheme using various method for LPG Mounted bullet. Prepararyion of GIR,. Stability Analysis using Geoslope 5, Review and check the deliverable drawings, Site support for technical queries, Analysis of Field Tests - SPT / CPTU, Back Analysis of Data.

**Four laning from km 64.00 to km 94 of Nagpur Hyderabad Section of NH 7 In the State of Maharashtra**

**Client: Road Builders Pvt. Ltd**

**Project Features: deep foundation**



*Sandeep*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





**Six-Laning of Surat-Dahisar Section of NH-8 from km. 263/00 to 502/00 in the state of Gujarat and Maharashtra to be executed as BOT (Toll) on DBFO pattern Under NHDP Phase-V**  
**Client: Modern Road Makers Private Limited with Engineer AArvee Associates**

**Four Laning of NH 6 from Km 239 to Km 282 (Raipur - Aurang Section)**  
**Client: Raipur Expressways Limited with Engineer Feedback Ventures**

**Rehabilitation & Upgradation to four laning of Gwallor Jhansi section of NH 75 from km 16/0 to km 95/0 of (NS1/BOT/MP-UP), Total Length 79 Km**

**Client: Gwallor Jhansi Expressways Limited with Engineer Feedback Ventures**

As a Geotechnical Engineer, responsible for Design of Geogrid Reinforced Soil Wall for the approaches of Flyovers using BS 8006, Site support for technical queries, Design of the treatment required to improve the safe bearing capacity of base to support the Reinforced Soil Wall, Estimation of quantities, Preparation of Method Statement, Monitoring the site progress. Technical coordination with client consultant.

**Four Lane NH Connectivity to the proposed ICTT at Vallarpadam, Cochin**

**Client: Suncon Soma JV with Engineer - LASA**

**Project Features:** deep foundation

As a Geotechnical Engineer, responsible for Design of Ground Improvement Scheme using Prefabricated Vertical Drains with surcharge loading, Involved in Design of Ground Improvement using Vibro Stone Columns, Review and check the deliverable drawings, Site support for technical queries, Analysis of Field Tests – SPT / SCPT / VST, Monitoring data of Instruments – Piezometers; Settlement Markers; Back Analysis of Data. Technical coordination with client consultant.

**Development of Port facilities at Gangavaram – Package 4E : Area grading and soil improvement works at Gangavaram port**

**Client: Gangavaram Port Ltd with Engineer Howe India Ltd**

**ICTT Vallarpadam, Cochin**

**Client: Man Infraconstruction Ltd with Engineer Royal Haskonings**

As a Geotechnical Engineer, responsible for Design of Ground Improvement Scheme using Prefabricated Vertical Drains with surcharge loading, Involved in Design of Ground Improvement using Vibro Stone Columns, Review and check the deliverable drawings, Site support for technical queries, Analysis of Field Tests – SPT / SCPT / VST, Monitoring data of Instruments – Piezometers; Settlement Markers; Back Analysis of Data. Technical coordination with client consultant.

**Construction of Major high level Bridge along with approaches on both sides across River Pawana at Rawet Dist. – MSRDC, Maharashtra, India**

**Design of bridge is aesthetically marvelous 100m span of bridge is supported by two "Basket Handle" type structural Arches.**

Leading Team for Conducting Geotechnical Surveys, Preparation of geotechnical reports. Responsible for all types of field & lab test of ground strata. Co-ordination with Team Leader & Design Team. Responsible for Soil Investigations, preparing borehole location schemes, finalizing borehole numbers & depth requirement in consultation with client, Prepare technical specifications and reports for material and Soil investigation, **Supervision at site**– site visits as required.

**Kakrapar Power Projects – 3 & 4 Site**

**Client: Nuclear Power Corporation of India Ltd**

As a Geotechnical Engineer, responsible for Selection of samples for testing, Analysis of Field Tests – CBR Test; Packer Test; Pressuremeter deliverables – Borelogs; Corelogs; subsurface profile drawings, Preparation of Geotechnical Investigation Report

**Sahara Hospitality, Mumbai**

**Client: Larsen & Toubro Ltd, ECC Division**

**Position Held: Geotechnical Engineer**

**Activities Performed:**



*Sandeep*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





As a Geotechnical Engineer, responsible for Design of Pre-stressed Rock Anchors of required capacity, Analysis of Pile Load test result

<b>From: 1996</b>	<b>To: 2006</b>
<b>Employer</b>	Sohams Foundation Engineering Pvt. Ltd.
<b>Position Held</b>	Geotechnical Engineer

**Client: Konkan Railway Corporation**

**Project Features:** Slope stabilization, erosion protection measures, retaining systems for various national and state highway projects, railways,

Design and Construction of various deep cuttings on the Konkan Railway line from Roha to Udipi (500 Km section), Over 10 locations mainly at Chiplun, Khed, Golavali, Sangameswar, Nivasar, Pomendi, Bordave, Kankavali, Pernem, Bali, Cancon etc. has been stabilized using the various techniques of Passive Anchors, Soil Anchors, Micropiles, erosion control mattresses, gabion walls etc. Slopes were analysed using Geoslope 5.0 and executed with indigenous techniques with available resources.

**Design of Reinforced Soil Structures for various Highway Projects:**

Serve as Lead Geotechnical Engineer for Design, Execution and after construction Monitoring of Reinforced Earth Retaining wall using BS 8006, FHWA, and MORTH guidelines for various Mega Highway projects as-

- Construction of ROB lieu of level crossing over Mumbai Ahmedabad Railway Line at Naigaon, Vasai, Dist Thane in the State of Maharashtra, for MMRDA ( for M/S Simplex Infrastructure Ltd) , pile/deep foundation
- Construction of ROB lieu of level crossing over Nagpur Hyderabad Railway Line at Rajura, Dist. Chandrapur, in the State of Maharashtra, for PWD Maharashtra ( for M/S Ajay pal Mangal). pile/deep foundation
- Construction of Railway Over Bridge in lieu of on MR 10 (Dewas- Maksi Link Road) in Between Railway KM 4/19-4/21 of Ujjain – Dewas railway Line. pile/deep foundation

**Geotechnical investigation for infrastructure projects such as bridges, highways, industrial structures, offshore projects etc.**

Lead role in preparation and finalization of Geotechnical appraisal report for various Projects

- Construction and Rehabilitation of Kabul Kandahar Road Project For Scott Wilson,
- Bridges & Flyovers of Surat – Dahisar National Highway section, for IRB Ltd.
- From MP–Maharashtra Border to Dhule – Km 168/500 to 265/000, Section of NH3, Maharashtra.
- Anik-Panjarpole Link road by MMRDA Mumbai, Maharashtra., Elevated Road
- Proposed Mumbai-Nashik Expressway by MSRDC, for Stup Consultants.
- Various Geological – Geotechnical Investigation for various Dams owned by Tata Electric Companies i.e. Mulshi Dams, Thokarwadi etc.
- Quarry investigations for mega projects like, Reliance Refinery at Patalganga, Redymix Plant at Taloja, Surat for IRB Ltd.

**Design and Execution of Retaining wall systems such as soldier pile system, contiguous pile system, secant piling system, diaphragm walls etc., with and without rock anchors for stabilization of Deep Excavations**

Design of Peripheral Pile Wall Retaining System Proposed Construction 3 basement of Tower Building at Menka Indralok, Gorakhpur in purely silty soil.



Chief Engineer  
Engineering Division  
M.M.R.D.A.



- Design and execution of Rock Anchors For soldier Pile wall for the commercial Buildings of M/s K. Raheja, Naman Builders located in Bandra-Kurla Complex, Mumbai.
- Design of Anchored Micropile Wall Retaining System for Basement of proposed Residential cum commercial building at Mulund Mumbai developed by Neptune.
- Rock anchor both Passive and Prestress has been designed for various structures in Mumbai as Kohinoor square Dadar for L& T, at Kalina for K. Raheja, at Tarapur for Nuclear Power Corporation Ltd.

#### **Design and execution of Leakage control and consolidation grouting scheme through Hydro structure**

Recommendation and execution of consolidation grouting scheme for minor and major irrigation projects in Irrigation Department of Maharashtra, Krishna Valley Development, MIDC, Chakan KT weir etc.

#### **Pile foundations: Execution of various types of pile foundation for multi-storied buildings, Design of micro piles foundation.**

- Design and execution of **Mega Pile Load tests of capacity 1200 T** and more capacities, For various Flyover and creek projects For MSRDC, For many Flyoveres in Mumbai
- **Design of rigid and flexible pavements for Container terminal Yrads**  
Design of container yard for Kandla Port at Kandla ( For M/S ABG)
- **Quality Assurance Plans:**  
Developed construction manuals and quality assurance plans, giving training to project managers and site engineers, conducting quality audits for:
  - Execution of major Ground Improvement schemes using Vibro Stone column, Prefabricated Vertical drain, Sandpiles
  - Construction of high embankments for Highway project.
  - Construction of Reinforced Soil Walls using concrete facia, Gabion facia, Green facia.
  - Construction of Gabion retaining walls , deep cuttings
  - Landslide mitigation works
- **Innovative Developments :**  
Developed a Mechanical stitcher in India for installing the Pre-fabricated vertical drain for Ground Improvement works.  
Developed a apparatus for Pull out testing of Geogrid with concrete block facia.  
Developed a large scale consolidometer for modeling of soft marine clay with vacuum consolidation
- **Interaction with various consultants and authorities in due course of time during approvals**

Stup, Freshman Prabhu, Foster Wheeler, Feedback Venture, CES (I) , Aarvee associates, Wilbur Smith, Intercontinental, Udhe, Mott Macdonald , Royal Haskonings, CGR, Toyo and many more.



*Sandeep Bhosale*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.







Languages	:	Language	Speaking	Reading	Writing
		English	Excellent	Excellent	Excellent
		Marathi	Excellent	Excellent	Excellent
		Hindi	Excellent	Excellent	Excellent

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

<b>Signature of the Candidate:</b>		
Place :		Navi Mumbai
Date :		24.11.2020
<b>Signature of the Authorised Representative of the firm</b>		
Place :		Navi Mumbai
Date :		24.11.2020



  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**





# Indian Institute of Technology, Bombay

Upon recommendation of the Senate hereby confers the degree of

## Master of Technology

in Civil Engineering with specialization in  
Geotechnical Engineering

on **Bhosle Sandeep Pandurang**

who has completed the courses of study as prescribed under the regulations, passed the examinations and successfully defended his dissertation in February 1996.

Given this day, under the seal of the Institute at Mumbai in the Republic of India,

the 11th day of July, 1996



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



*[Signature]*  
Registrar

*[Signature]*  
Chairman, Board of Governors

*[Signature]*  
Chairman, Senate

मुंबई विद्यापीठ



UNIVERSITY OF BOMBAY

आम्ही मुंबई विद्यापीठाचे कुलपती, कुलगुरु आणि व्यवस्थापन परिषदेचे सदस्य असे प्रमाणित करतो की व्ही. जे. टेक्निकल इन्स्टिट्यूटचे संदीप पांडुरंग भोसले, हे मे १९९४ मध्ये घेण्यात आलेली अभियांत्रिकी स्नातक परीक्षा प्रथम श्रेणीत गुणवत्तापूर्वक उत्तीर्ण झाले असून दिनांक २ डिसेंबर १९९४ रोजी मुंबई येथे झालेल्या दीक्षांत समारंभात त्यांना अभियांत्रिकी स्नातक (स्थापत्य शाखा) ही पदवी प्रदान करण्यात आली आहे.

विद्यापीठाची मुद्रा व कुलपतीची स्वाक्षरी यांसह साक्षीने अंकित.

We, the Chancellor, Vice-Chancellor and Members of the Management Council of the University of Bombay certify that Sandeep Pandurang Bhosle of V. J. Technical Institute having passed the Bachelor of Engineering degree examination held in May 1994 with Honours in the First Class, the degree of Bachelor of Engineering (in its Civil Branch) has been conferred on him at the Convocation held in Bombay on 2nd December, 1994.

In testimony whereof are set the Seal of the said University and the signature of the said Chancellor.



*[Signature]*

*[Signature]*  
Chief Engineer  
Engineering Division  
P. D. A.

www.sohams.com

**SOHAMS FOUNDATION  
ENGINEERING PVT. LTD.**



- Specialist Engineers For :
- Ground Improvement Solutions
  - Reinforced Earth Wall
  - Slope Stabilisation • Rock Anchors
  - Micropiles • Drilling Grouting
  - Geotechnical / Geophysical Investigation

301-303, Thapar Complex, Sector 15,  
Plot No. 51, CBD Belapur,  
Navi Mumbai 400 614, India  
• Tel : +91-22-2757 4038 / 2756 5562  
2756 0882  
• Fax : +91-22-2756 4944  
• Mail : sohamfoundation@vsnl.net

Ref. SFEPL/1617

Dt. 13.10.2016

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that Mr. Sandeep Bhosle is employed with us since 01<sup>st</sup> March 1996 at Head office, Mumbai as "Technical Director / Material cum Geotech" on permanent rolls. He is handling PMC, DPR projects.

He is very hardworking and dedicated employee of our company and has good leadership qualities. He has lead project teams effectively.

For Sohams Foundation Engineering Pvt. Ltd.

Signature

Name P. S. Jadhav

Designation Manager HR



**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



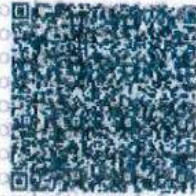


भारत सरकार

Government of India



सदीप पांडुरंग भोसले  
Sandeep Pandurang Bhosle  
जन्म तारीख / DOB - 06/01/1972  
पुरुष / Male



6539 4349 7825

आधार - सामान्य माणसाचा अधिकार



Chief Engineer  
Engineering Division  
M.M.R.D.A.



**Curriculum Vitae (CV) for Proposed Key Staff**

1	<b>Proposed Position</b>	:	<b>Transportation / Traffic Engineer</b>	
2	<b>Name of Staff</b>	:	<b>Jose Thomas</b>	
3	<b>Date of Birth</b>	:	30-03-1965	
4	<b>Nationality</b>	:	Indian	
5	<b>Education Qualification</b>	:		
			1. M. Tech – Transportation Engineering from Calicut University in 1990 2. B. Tech (Civil) from Kerala University in 1986	
6	<b>Membership in Professional Associations</b>	:	Member of Institute of Engineers	
7	<b>Employment Record</b>	:		
	From	:	July 1993 - Till date	
	Employer	:	STUP Consultants Pvt. Ltd.	
	Position Held	:	Traffic and Road Safety Expert	
	From	:	1990 - 1992	
	Employer	:	Steel Fab Engineering Corporation	
	Position Held	:	Structural Engineer	
	From	:	1986 - 1988	
	Employer	:	Spoton Engineering Software Services	
	Position Held	:	Design Engineer	

8	<b>Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</b>
	<p><b>Project Name:</b>          Independent Engineer Services during Operation &amp; Maintenance Period for 4/6-laning of Hungund-Hospet section from km. 202.000 to km. 299.000 of NH-13 in the State of Karnataka under Phase-III on Design, Build, Finance, Operate and Transfer (DBFOT) Toll Basis under Public-Private Partnership (PPP) mode.          Year: April 2015 - August 2019          Client: National Highways Authority of India          Position Held: Traffic &amp; Transportation Expert</p> <p><b>Activities Performed:</b>          As Traffic &amp; Transportation Expert, responsible for review the accident record on the project highway and suggest remedial measures; review the safety and traffic management measures implemented during construction period; review type and locations of traffic control and safety measures, design of intersections and interchanges, toll plaza layout, toll collection method and use facilities; review the facilities to be provided for the user; review the O &amp; M Plan prepared the Concessionaire.</p>
	<p><b>Project Name:</b>          Technical Consultant for Preparation of Feasibility Report for Development of State Highways from (i) Mathania-Dechu section of MDR-32 (Highway-I); (ii) Pali-Khandap-Bhadrajun section of MDR-13 (Highway-II); (iii) Bhadrajun-Mokalsar section of MDR-13 (Highway-III); (iv) Sayala-Bagoda-Gudha Malani section of MDR-16 (Highway-IV); (v) Bhinmal-Pantheri Posana-Jeevana section of MDR-169 (Highway-V) totalling 292 kms. through Public Private Partnership on Design, Build, Finance, Operate and Transfer          Year: Oct 2014- 3Oct 2015          Client PWD, Govt. of Rajasthan:          Position Held: Traffic cum Safety Expert</p> <p><b>Activities Performed:</b>          As Traffic Engineer-cum-Safety Expert was responsible for suggesting the complete layout and</p>



Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



	<p>design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety. The traffic study included the classified traffic volume counts, Origin Destination study, Turning Movement study, WTP study, past traffic data collection. The data then needed to be assimilated and compiled and worked out the traffic forecast based on the various transportation models.</p>
	<p><b>Project Name:</b>          Independent Engineer services for 4-laning of Lucknow " Raebareli Section of NH " 24 A from Km 12.700 to Km 82.700 on BOT (Annuity) under NHDP Phase IV A in the State of Uttar Pradesh.          Year: Dec 2012- June 2015          Client: National Highways Authority of India          Position Held: Traffic &amp; Transportation Expert  <b>Activities Performed:</b>          As Traffic and Transportation Expert, responsible for review and check traffic analysis, projection and assignment exercises to be carried out by the concessionaire; review design of intersections and interchanges, toll plaza layout, bus bay layout; scheme for traffic management during construction, study and comment on Safety audit report prepared by concessionaire; Review Geometric design from Road Safety angle; Check super elevation, sight distance from road Safety angle; assessment of traffic using emme/2 model, conduct traffic surveys, assessment of future traffic, assessment of traffic demand on the proposed roads with reference to other planned and ongoing projects, assist Transport Economist for economic evaluation, assist Team Leader in construction supervision of Project and Project Management.</p>
	<p><b>Project Name:</b>          Consultancy Services for Preparation of Feasibility study for 6/4/2-lane with paved shoulder of Bhavnagar"Pipavav"Porbandar"Dwarka section of NH-8E in the State of Gujarat          Year: Jan 2011- April 2012          Client: National Highways Authority of India          Position Held: Traffic cum Safety Expert  <b>Activities Performed:</b>          As Traffic-cum-Safety Expert was responsible for suggesting the complete layout and design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety during construction and operation.</p>
	<p><b>Project Name:</b>          Feasibility study, Detailed Project Report and Bid Process Management for Integrated Road Development Project in Chandrapur City (2-lane to 4-lane, 59 kms) (project to be implemented on PPP mode on BOOT basis.          Year: Feb 2009- Oct 2009          Client: Maharashtra Urban Infrastructure Development Company Ltd.          Position Held: Traffic cum Safety Expert  <b>Activities Performed:</b>          As Traffic cum Safety Expert was responsible for suggesting the complete layout and design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety during construction and operation.</p>
	<p><b>Project Name:</b>          Detailed engineering design for the project of 6-laning of Surat-Dahisar section of NH-8 from km. 263.00 to km. 502.00 (length: 239 kms.) in the state of Gujarat/Maharashtra to be executed as BOT (Toll) basis on DBFO pattern under NHDP Phase-V.          Year: Sep 2008- Dec 2009          Client: Modern Road Makers Pvt. Ltd. (A Subsidiary of IRB Infrastructure Developers Ltd.)          Position Held: Traffic cum Safety Expert  <b>Activities Performed:</b>          As Traffic cum Safety Expert was responsible for suggesting the complete layout and design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety during construction and operation.</p>
	<p><b>Project Name:</b>          Independent Consultancy Services for 6-laning of Bharuch to Surat from Km. 198.00 to Km. 263.00 of NH-8 in Gujrat on BOT Basis (Package BOT-2)</p>

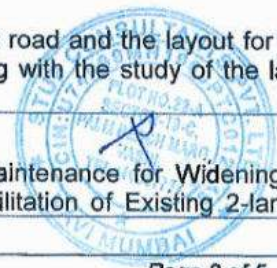


*Jose Thomas*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



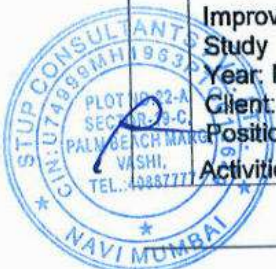


<p>Year: Sep2007- Sep2009          Client: National Highways Authority of India          Position Held: Traffic &amp; Transportation Expert          Activities Performed:          As Traffic and Transportation Expert, responsible for review and check traffic analysis, projection and assignment exercises to be carried out by the concessionaire; review design of intersections and interchanges, toll plaza layout, bus bay layout; scheme for traffic management during construction, study and comment on Safety audit report prepared by concessionaire; Review Geometric design from Road Safety angle; Check super elevation, sight distance from road Safety angle; assessment of traffic using emme/2 model, conduct traffic surveys, assessment of future traffic, assessment of traffic demand etc.</p>
<p><b>Project Name:</b>          Consultancy services for preparation of Feasibility for 6-laning of NH-2 from Varanasi" Aurangabad (length 190 Km) in the state of Uttar Pradesh/Bihar under NHDP Phase-V (Lot 2), to be executed on BOT (Toll) Project on DBFO Pattern.          Year: Aug2007- July2008          Client: National Highways Authority of India          Position Held: Traffic cum Safety Expert          Activities Performed:          As Traffic cum Safety Expert was responsible for suggesting the complete layout and design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety during construction and operation.</p>
<p><b>Project Name:</b>          Consultancy Services for Urban Re-Engineering of 8-laning of Sion"Panvel Highway and balance work of 55 Flyover Project and 25 km (BOT project)          Year: Feb 2007- July 2007          Client: Maharashtra State Road Development Corporation Ltd.          Position Held: Traffic cum Safety Expert          Activities Performed:          As Traffic Engineer for traffic collection at the locations along the various flyovers and the layout for the proposed Toll Collection plazas, toll collection method working out along with the study of the lane requirements as per the present &amp; forecasted traffic studies.</p>
<p><b>Project Name:</b>          Consultancy Services for preparation of feasibility for 6-laning of NH-8 from Surat Dahisar (length 239 km) in the state of Gujarat/Maharashtra under NHDP Phase V, to be executed on BOT (Toll) Project on DBFO Pattern          Year: July2006- May 2007          Client: National Highways Authority of India          Position Held: Traffic cum Safety Expert          Activities Performed:          As Traffic cum Safety Expert was responsible for suggesting the complete layout and design of access regulation measures, traffic safety facilities and provide such solutions which enhance safety during construction and operation.</p>
<p><b>Project Name:</b>          Consultancy Services for preparation of Detailed Project Report for 4-laning of existing road from Karaswada Junction (NH-17) to Khandepar (NH-4A)" Assessment for taking up the work on BOT          Year: May 2006- Sep 2006          Client: Goa State Infrastructure Development Corporation Ltd.          Position Held: Traffic Engineer          Activities Performed:          As Traffic Engineer for traffic collection at the locations along the project road and the layout for the proposed Toll Collection plazas, toll collection method working out along with the study of the lane requirements as per the present &amp; forecasted traffic studies.</p>
<p><b>Project Name:</b>          Independent Consultant for Design, Construction and Operation of Maintenance for Widening of Existing 2-lanes to 6-lanes divided carriageway facility including rehabilitation of Existing 2-lanes.</p>





<p>from km 273.500 to km 363.885 on Jaipur - Kishangarh Section of NH-8 in Rajasthan on BOT basis.          Year: Nov 2002- April 2005          Client: National Highways Authority of India          Position Held: Traffic Engineer          Activities Performed:          To be carried out by the concessionaire; review design of intersections and interchanges, toll plaza layout, bus bay layout; scheme for traffic management during construction, study and comment on Safety audit report prepared by concessionaire; Review Geometric design from Road Safety angle; Check super elevation, sight distance from road Safety angle; assessment of traffic using emme/2 model, conduct traffic surveys, assessment of future traffic, assessment of traffic demand etc.</p>
<p><b>Project Name:</b>  <b>Kalyan "Dombivali Ring Road, Maharashtra</b>          Year: May 2000- Jan 2001          Client: Kalyan-Dombivali Municipal Corporation          Position Held: Traffic and Transportation Expert          Activities Performed:          Kalyan-Dombivali Municipal Corporation (KDMC), Kalyan, Public Works Department, had decided to construct a ring road from Shahad, Barave, Gandhare, Durgadi Fort, Kalyan Patripool, Thakurli, Dombivali (W), Kopar to Manpada road with an intention to solve the traffic congestion problem on the existing Dombivali-Kalyan via. MIDC area. The proposed ring road is a 4-lane divided carriageway approximately 17 km. Length (excluding some portion between Durgadi Fort to Patripool of about 1.70 km in KDMC area). As a Traffic and Transportation Expert was involved in review and checking of traffic analysis, review design of intersections and interchanges, traffic safety, designs and drawings for improvement of city roads, preparation of BOQ, cost estimates, periodical supervision etc.</p>
<p><b>Project Name:</b>          Mumbai "Talasari Expressway" Section "I".          Year: May 1998- Feb 2000          Client: PWD, Govt. of Maharashtra          Position Held: Traffic and Transportation Expert          Activities Performed:          Detailed Engineering of the proposed Mumbai-Talasari Expressway- Section 1, from the starting point at proposed Kashi-Mira interchange on NH-8 (included) upto, but excluding, the proposed Interchange at Shirsat at the junction with State Highway No.40 (approx. length " 24 km). As a Traffic and Transportation Expert was involved in review and checking of traffic analysis, review design of intersections and interchanges, traffic safety, toll plaza layout, toll collection methods and user facilities.</p>
<p><b>Project Name:</b>          Mumbai "Nashik Expressway " Section " III.          Year: May 1998-Feb 2000          Client: Govt. of Maharashtra (PWD)          Position Held: Traffic and Transportation Expert          Activities Performed:          Detailed Engineering of the proposed Mumbai - Nashik Expressway - Section III from the starting point at Igatpuri at the proposed Igatpuri Interchange (included) upto but not including the proposed interchange at Rajurbahula near National Highway No.3. The approximate length of Section III is 34.4 Kms. As a Traffic and Transportation Expert was involved in review and checking of traffic analysis, review design of intersections and interchanges, traffic safety, toll plaza layout, toll collection methods and user facilities.</p>
<p><b>Project Name:</b>          Improvement/Upgradation of State Highway and Major District Roads in Tripura - Strategic Options Study          Year: March 1997-Sep 1998          Client: Govt. of Tripura          Position Held: Traffic Engineer          Activities Performed:</p>



*Jose Thomas*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.







Responsible for coordinating traffic surveys and analysis, development of composite index for strategic options, traffic forecast, project benefit evaluation and prioritization of roads for improvement.
<b>Project Name:</b> Traffic Operation and Management Plan for Selected Cities in Tamil Nadu Year: Aug 1996-April 1997 Client: Govt. of Tamil Nadu Position Held: Traffic Engineer <b>Activities Performed:</b> Responsible for preparation of traffic engineering and management schemes for various towns including cost estimates, checking of traffic analysis, review design of intersections and interchanges, traffic safety, toll plaza layout, toll collection methods and user facilities.
<b>Project Name:</b> Traffic Engineering and Development of Alternative Transport Network for Cuttack and Bhubaneswar, Orissa. Year: March 1993-Sep1994 Client: Govt. of Orissa Position Held: Traffic Engineer <b>Activities Performed:</b> Responsible for traffic surveys and analysis, evolving traffic engineering and management schemes, signalization plan, design of terminals, evaluation of development options, economic analysis, travel demand analysis and development of alternative transport network.

Languages	:	Language	Speaking	Reading	Writing
		English	Excellent	Excellent	Excellent
		Hindi	Excellent	Excellent	Excellent

**Certification:**

1. I am willing to work on the project and I will be available for entire duration of the project assignment and I will not engage himself in any other assignment during the currency of his assignment on the project.
2. I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly describes me, my qualifications and my experience.

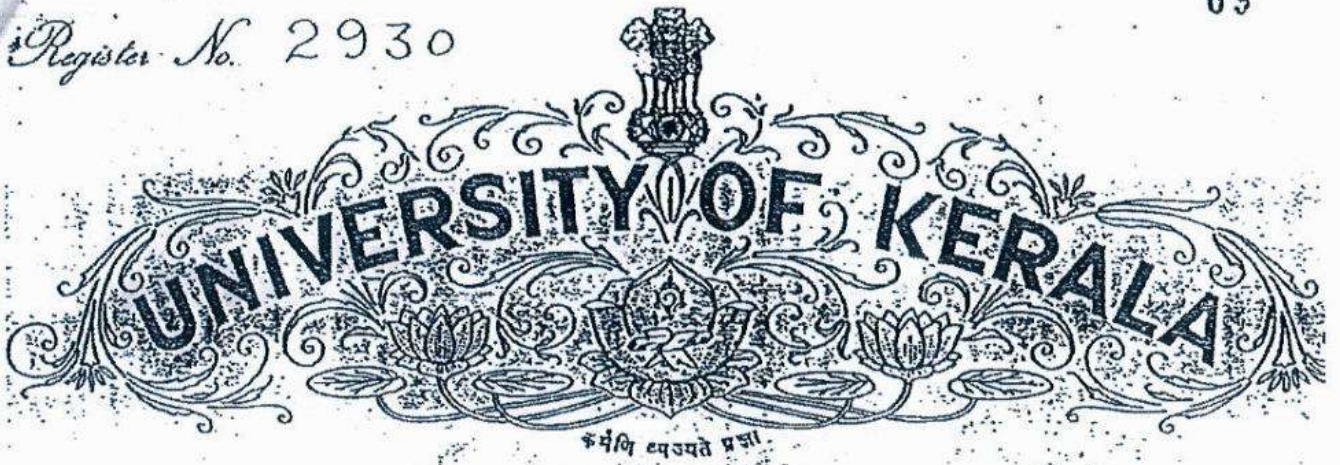
<b>Signature of the Candidate:</b>	
Place :	Navi Mumbai
Date :	24.11.2020
<b>Signature of the Authorised Representative of the firm</b>	
Place :	Navi Mumbai
Date :	24.11.2020



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



Register No. 2930



### FACULTY OF ENGINEERING & TECHNOLOGY

The Senate of the University of Kerala hereby makes known that Jose Thomas Manikulathil has been admitted to the Degree of Bachelor of Technology under Civil Branch he/she having been certified by duly appointed Examiners to be qualified to receive the same and having been by them placed in the First Class at the examination held in March 1987

Given under the seal of the University.



University Buildings,  
Thiruvananthapuram, 19<sup>th</sup> February 1988.

*beef*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



# University of Calicut

## FACULTY OF ENGINEERING

Whereas it has been certified by duly appointed Examiners that

Jose Thomas Mankulathil

is qualified to receive the Degree of Master of Technology In Engineering (M. Tech.)

in Branch I Civil-Traffic and Transportation Planning

he/she having been placed in First Class at the Examination held in

August 1990 (Reg. No. 818)

The Senate of the University of Calicut hereby confers on him/her the Degree of

## MASTER OF TECHNOLOGY IN ENGINEERING

with all the Rights, Privileges and Honours thereunto appertaining.

Given under the seal of the University.



CALICUT UNIVERSITY  
673 635

Date.. 11.1.1991.

VICE-CHANCELLOR





71  
1



Name of pupil... JOSE THOMAS (MANKULATHIL)  
 (In English. Print letters. Initials after name)  
 (In Regional Language) ജോസഫ് മങ്കുലാതിൽ

2. Sex... Male 3. Nationality... Indian

4. Religion... Christian 5. Caste... Roman Catholic

6. Native place... Kralloorkad, Muvattupuzha, Ernakulam

7. Date of birth (In Christian Era)  
 (In figures and in words)... 30.3.1965  
Thirtieth March, Ninetythree hundred and  
Sixty five

8. Name of father... Arife Thomas

9. Name of parent or guardian:  
 (As in the Admission Register) Arife Thomas  
 Guardian's relationship with the pupil: Father  
 Occupation of guardian: Agriculture  
 Home address of guardian: Mankulathil, Kralloorkad P.O.

10. Personal marks of identification  
 1. A black mole very near to the left ear.  
 2. A black mole on the left side of the neck.

11. Schools attended	Period of study		Standards
	From	To	
<u>St. Augustine's HS</u> <u>Kralloorkad.</u>	<u>1977</u>	<u>80</u>	<u>VIII, IX + X</u>

Verified  
3/4/66



I have checked all the entries in this S. S. I. G. with reference to the relevant records of the school and found them correct.

Name and signature of Headmaster/Headmistress with date.  
T. Mathai  
High School Kralloorkad

Baby Antony BSc., B.E.B.  
Secretary,  
Kothamangalam Municipality



[Signature]  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





भारतीय विशिष्ट ओळख प्राधिकरण

भारत सरकार

Unique Identification Authority of India  
Government of India

नोंदविण्याचा क्रमांक / Enrollment No 1190/15783/01720

To,  
जोस थॉमस  
Jose Thomas  
S/O Alpe Thomas  
B-104, Surya Building Co.Op.Hcu.Soc.  
PLOT No.5  
Near NRI Complex Sector-60, Nerul Pin Code-400706  
NAVI MUMBAI  
Thane  
Maharashtra 400615  
9930073903

Ref: 315 / 15E / 528629 / 529129 / P



UE467399055IN



आपला आधार क्रमांक / Your Aadhaar No. :

**7946 1120 1096**

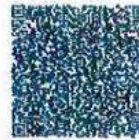
आधार — सामान्य माणसाचा अधिकार



भारत सरकार  
GOVERNMENT OF INDIA



जोस थॉमस  
Jose Thomas  
जन्म वर्ष / Year of Birth : 1965  
पुरुष / Male



**7946 1120 1096**

आधार — सामान्य माणसाचा अधिकार



*Deenul*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.





**STUP Consultants Pvt. Ltd.**

Five Decades of Sustainable Design of Infrastructure & Real Estate through Innovation



12 May, 2016

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Jose Thomas is working with this organization since 1993 as Traffic & Transportation Expert-Safety-Expert / Traffic Engineer for various Highways / Bridge projects of the company.

Mr. Jose Thomas is a sincere and hardworking engineer and I wish him best success in his future career.

For STUP Consultants Pvt. Ltd.

(A.D. Joshi)  
Executive Vice President



*Handwritten signature*  
Chief Engineer  
Engineering Division  
M.R.D.A.



Plot No. 22-A, Sector 19-C, Palm Beach marg, Vashi, Navi Mumbai-400 705, India.  
Tel: 022-40867777, 41224328 Fax: 022-27836240. E-mail: navimumbai@stupmail.com

Regd. Office: 1004 & 5, Raheja Chambers, 213, Narlman Point, Mumbai-400 021, India, CIN : U74999MH1963PTC012649  
Tel: 022-40868886. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com

---

**Appendix D: Consultancy fee and payment schedules**



# STUP Consultants Pvt. Ltd.

50 Decades

ANNEXURE (A) to be filled only with Financial Proposal through computer  
COST ESTIMATES WITH DETAILS OF REQUIRED KEY MANPOWER

**Sub : Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector ( Third call)**

## FINANCIAL PROPOSAL

Sr. No.	Description	Amount (Rs.)
1	Remuneration	101,590,600.00
2	Transportation	7,581,600.00
3	Office Supplies, Utilities and communication	1,053,000.00
4	Office furniture and Equipment	5,997,820.00
5	Report and document printing	1,000,000.00
6	Survey and other expenses	500,000.00
	<b>Total</b>	<b>117,723,020.00</b>

We, STUP Consultants Pvt. Ltd. are hereby quoting the lump-sum fee for the Project Management Consultancy Services as per the scope of Work, terms and contract conditions covered in TOR. The offer is inclusive of all taxes and excluding GST.

(In Words)

Our Fee is Rs. 11,77,23,020/- (Rupees Eleven Crores Seventy Seven Lakhs Twenty Three Thousand & Twenty only) as mentioned in detailed tender notice.

For STUP Consultants Pvt. Ltd.

Sunil Dutt

Joint Vice President

STUP Consultants Pvt. Ltd.; Plot No.22-A, Sector 19C, Palm Beach Marg, Vashi, Navi Mumbai. Maharashtra- 400 705

Tel: 022 - 4088 7777

Fax: 022 - 2783 6240



Chief Engineer

Signature of M.M.R.D.A.  
M.M.R.D.A.

Plot No. 22-A, Sector 19-C, Palm Beach Marg, Vashi, Navi Mumbai - 400 705, India.  
Tel: 022-40887777, 41224328. Fax: 022-27836240. E-mail: navimumbai@stupmail.com



Regd. Office: 1004 & 5, Raheja Chambers, 213, Nariman Point, Mumbai-400 021, India. CIN: U74999MH1963PTC012649  
Tel.: 022-40868686. Fax: 022-22048424. E-mail: mumbai@stupmail.com www.stupco.com



## Estimate of costs

## Remuneration of Key Professional Staff

Sr. No.	Key Personnel	Name	Rate (Rs.)	No. of Persons	No. of Man Months per person per month	Man Months & Phase			Total Man-Months	Amount
						Construction	DLP	Total		
<b>A</b>	<b>Personnel</b>									
<b>A</b>	<b>Key Personnel</b>									
K-1	Team Leader	P K Jain	261,050.00	1.00	1.00	36.00	-	36.00	36.00	9,397,800.00
K-2	Resident Engineer	Rajesh Jadhav	362,600.00	1.00	1.00	36.00	2.00	38.00	38.00	13,778,800.00
K-3	Structural Engineer PC	Amit Raikar	345,000.00	1.00	0.50	18.00	-	18.00	18.00	6,210,000.00
K-4	Structural Engineer Steel	D C Athavale	345,000.00	1.00	0.50	18.00	-	18.00	18.00	6,210,000.00
K-5	Quality Control Engineer	H T Wagh	254,000.00	1.00	1.00	36.00	-	36.00	36.00	9,144,000.00
K-6	Contract Specialist	A S Bokil	207,000.00	1.00	0.50	18.00	2.00	20.00	20.00	4,140,000.00
K-7	Safety Engineer	S N Pote	217,600.00	1.00	1.00	36.00	-	36.00	36.00	7,833,600.00
K-8	Geo-Technical / Foundation Engineer	Sandeep Bhosle	269,250.00	1.00	0.50	18.00	-	18.00	18.00	4,846,500.00
<b>B</b>	<b>Supporting Staff</b>									
SS-1	Quantity Surveyor	TBN	108,800.00	1.00	1.00	36.00	-	36.00	36.00	3,916,800.00
SS-2	Transportation / Traffic Engineer	TBN	207,000.00	1.00	1.00	36.00	-	36.00	36.00	7,452,000.00
SS-3	Jr. Quantity surveyor	TBN	87,050.00	1.00	1.00	36.00	-	36.00	36.00	3,133,800.00
SS-4	Jr. Quality Control Engineer	TBN	87,050.00	1.00	1.00	36.00	-	36.00	36.00	3,133,800.00
SS-5	Surveyor	TBN	65,300.00	1.00	1.00	36.00	-	36.00	36.00	2,350,800.00
SS-6	Lab Technicians	TBN	58,100.00	2.00	1.00	36.00	-	36.00	72.00	4,183,200.00
SS-7	Field Engineers	TBN	72,750.00	4.00	1.00	36.00	2.00	38.00	38.00	10,621,500.00
SS-8	Utility Engineer	TBN	72,750.00	1.00	1.00	36.00	-	36.00	36.00	2,619,000.00
SS-9	Expert in social development (R&R)	TBN	72,750.00	1.00	1.00	36.00	-	36.00	36.00	2,619,000.00



Chief Engineer  
Engineering Division  
M.M.R.D.A.

**APPENDIX - 'D'**  
**Fees and payment schedule**

**1. Fee:**

The consultants shall be eligible to receive the fees as quoted/ agreed/ negotiated by the employer and communicated in Work Order / Letter of Intent by competent authority of MMRDA.

**2. The Consultants quotation:**

The Consultants shall provide the services as per the contract at the rates quoted/agreed by the consultant's quotation.

**3. Final Fee payable to the consultants:**

The Fee payable to the Consultant shall be the lump-sum fee (which deemed to have included all applicable taxes excluding GST) as quoted/ agreed/ negotiated. The fees as above deemed to include any change in scope of the Contractor, if any, during the construction and no additional fees will be payable to the PMC towards variations / extra items etc. executed by the Contractor.

**4. Break-up of the fees payable for the different periods:**

The total fee payable will be divided into 4 parts and paid as indicated below:

	Cost of project in core	% fees payable during different periods
1.	Scrutiny of design and working drawings submitted by the Contractor for execution.	15%
2.	Supervision in Construction Period i.e. technical supervision, monitoring quality assurance and other allied services, running account bills etc.	75%
3.	Miscellaneous activities viz. As build drawings, Final bill of Contractor & Maintenance Manual, Final handing over of facility to corporation/PWD at the end of DLP.	5%
4.	Supervision during Defects liability period.	5%

**4.1 Payment Schedule for proof checking:**

Fee will be divided independently for each structures of the bridge for which proof checking is completed and drawing released for construction. Total fee as per the (i) or (ii) above will be divided in two phases:

Phase	Stage of work	Fee payable
Phase-I	Scrutiny of detailed design of design Consultant / Contractor and accepted by MMRDA. ( in proportion of completion) On completion of scrutiny of: i) Foundations 20% ii) Substructure 10% iii) Superstructure 40% iv) Miscellaneous 05%	75%



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Phase	Stage of work	Fee payable
Phase-II	During Construction phase on completion of the work following work: ( in proportion of completion)	25%
	i) Foundations 07%	
	ii) Substructure 05%	
	iii) Superstructure 05%	
	iv) Miscellaneous 03%	
	v) After DLP 05%	

4.2 Payment to consultants against supervision during construction period will commence after Work order is issued to the consultant and after the consultants mobilizes their manpower at site. The fees payable during supervision to be bifurcated into 2 parts (for regular as well as extended period if any ) as follows:

4.2.1 Fees against manpower deployment and fees against progress of works.

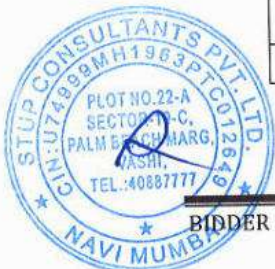
The proportionate fees should be **70% for manpower deployment and 30% for progress related component**. At the time of signing the agreement, key staff to be deployed should be mentioned in the Agreement and if any short fall occurs in it, the fee should be deducted proportionately. A condition to this effect is clearly included in the document. For extended period, the fees towards supervision (Manpower deployment and progress) may be paid by working out proportionately limiting to the monthly fees being paid in the original contract if staff is deployed as per TOR.

If the progress of work is very slow due to unforeseen reasons during the operation period of contract i.e. during original & extended period, employer may direct for reduction of staff in manpower deployment in proportion to work front available & fees towards the manpower deployment will be reduced in proportion to reduced manpower deployment. No claims in this regard will be entertained for reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary.

4.3 Break-up of payment schedule for Miscellaneous activities:

Break-up of payment schedule for a miscellaneous activity is as below:

	Component	% fees to be retained
1	As build drawing	1.0 %
2	Final bill of Contractor & Maintenance Manual	2.0%
3	Claiming deposits from tree/mangrove authority	0.5 %
4	Final handing over of facility to Corporation/PWD at the end of DLP	1.0 %
5	Special reports on damages ,lack of needed performance	0.5 %
	<b>Total</b>	<b>5.0 %</b>



BIDDER

*beed*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



**5. Payments if Project is delayed:**

If the actual completion time extends beyond the base completion and variation the payment will be made as follows:

	Base Completion as per contract	Variation period
1	Up to 9 Month	± 1 month
2	9 to 15 Month	± 2 months
3	15 to 36 month	± 3 months

In the event of construction extended beyond base completion + variation, the monthly payment will be subject to the ceiling as given below:

$$\text{Fees payable per month} = \frac{\text{Total Fees ( as mentioned in Appendix D ar Sr No 4.2 i.e.(75 \%)} }{(\text{Base completion Time limit} + \text{variation period in Month})}$$

The payments will be worked out in proportion to the actual manpower deployed and approved by Engineer-In Charge during period under consideration. The payment towards **financial** progress related fees shall be paid to the PMC in proportion to the financial progress of the work till end of the project including extended period (if any). For reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary.

**Notes:**

1. This clause will come in to existence only after agreed Man-Months as per Contract are exhausted.
2. The balance agreed Man-Months of individual professional at the end of the original contract period (excluding DLP period) shall be carry forward in the extended contract period.
3. The payments for the extended will be made based on actual man months provided by the Consultants, with prior approval of the employer. The additional payments will be worked out in proportion to deployment of the actual man months, certified by the "Employer"

**6. Consultants reports of Manpower deployment:**

The consultant shall submit the details of manpower deployment of key staff required for each quarter in advance. This shall be arrived at based on the scheduled works in the next quarter and the actual and anticipated progress achieved by the contractor. The consultants shall get the actual deployment duly certified by the Engineer in-charge at the end of every month. The certified manpower of key staff deployment and the approved schedule of deployment for the quarter shall be considered as the basis for consultants payments. No payment will be released if consultant fails to submit and get approval of Engineer In-Charge for manpower deployment of key staff required for each quarter in advance before fifteen days of start of respective quarter. Each bill of PMC must accompanied the letter in this regard.



**7. Reimbursable expenditure towards additional copies of reports:**

The consultants shall submit additional copies of the report as and when required by the employer at no extra cost.

---



BIDDER

  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

---

**Appendix E: Services and facilities provided by the Employer**

**APPENDIX - 'E'**

Service and Facilities Provided by the Employer

Not applicable



---

**Appendix F: Form of Guarantee for advance payments**

**APPENDIX - 'F'**

**Deleted**



---

**Appendix G: Corrigendum's / modifications / corrections , CSD as  
per pre bid meeting**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third Call)

Common Set of Clarifications (CSC-1)

The Common Set of Clarifications is not part of the Bid Documents

Sr. No.	Ref. Clause No./Page No.	Condition	Query	Clarification						
<b>1. M/s. TECHNOGEM CONSULTANTS PVT. LTD.</b>										
1.	Section 1 : Clause No. 3 Page No. 16	<b>Instruction To Bidder</b> <b>Clause 3 . Preparation Of Proposal:</b>  7. The bidder should upload scanned copy of PAN Card as well as VAT certificate etc. and scanned attested photocopies of all documents on above mentioned MMRDA official e-Tendering portal & produce in original on request by MMRDA at any stage.	The bidder should upload scanned copy of PAN Card and GST certificate etc. and scanned attested photocopies of all documents on above mentioned MMRDA official e-Tendering portal & produce in original on request by MMRDA at any stage.	Please refer to Sr No 3 of CSD-1						
2	e-Tender Short Notice Page No.7	Bid Preparation and Submission on line - 23/11/2020 1200 hrs	Due to Diwali Festival & substantial documentation is involved in this bid, It is requested to extend the date of submission of Bids by at least 15 working days from the date of issue of CSD/ clarification to pre-bid points.	Please refer to Sr No 1 & 2 of CSD-1						
3	Clause No. 25 Sr. No. 3 Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals Page No.21	<b>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals</b> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31<sup>st</sup> March 2019 in the Consultancy</td> <td>10 Average Annual Turnover : ≥ INR 10.00 but &lt; 25.00 Crore : 5 Marks ≥ INR 25.00 but &lt; 50.00 Crore : 7 Marks</td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks	2.	Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31 <sup>st</sup> March 2019 in the Consultancy	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks	Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31st March 2019 in the Consultancy services as certified by CA. Average Annual Turnover : ≥ INR 10.00 but < 12.00 Crore : 5 Marks ≥ INR 12.00 but < 15.00 Crore : 7 Marks ≥ INR 15.00: 10 Marks Also, consider the enhancement factor @ 10 per year for turnover of previous years to bring avg. turnover equivalent to present year's turnover	Please refer to Sr No 4 of CSD-
Sr. No.	Parameter	Maximum Marks								
2.	Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31 <sup>st</sup> March 2019 in the Consultancy	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks								

Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

Appendix A clause 31 Qualification and experience requirement for key professional Staff page No 79	services as certified by CA.	≥ INR 50.00: 10 Marks	<table border="1"> <tr> <th colspan="2">Tender Condition</th> <th rowspan="2">Specific Experience of Similar Nature</th> </tr> <tr> <th>Minimum Qualification &amp; upper age limit</th> <th>Minimum Overall Experience</th> </tr> </table>		Tender Condition		Specific Experience of Similar Nature	Minimum Qualification & upper age limit	Minimum Overall Experience							
	Tender Condition		Specific Experience of Similar Nature													
Minimum Qualification & upper age limit	Minimum Overall Experience															
	<table border="1"> <tr> <th colspan="2">Key Professionals</th> </tr> <tr> <td>Team Leader</td> <td>Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning &amp; execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning &amp; execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span as TL.</td> </tr> <tr> <td>Resident Engineer</td> <td>Out of 20 years' experience, 5 year experience as a Resident Engineer. Minimum 5 years' experience of planning &amp; execution/ supervision of one Elevated metro viaduct/ 2 lane flyover in urban area.</td> </tr> </table>	Key Professionals		Team Leader	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning & execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span as TL.	Resident Engineer	Out of 20 years' experience, 5 year experience as a Resident Engineer. Minimum 5 years' experience of planning & execution/ supervision of one Elevated metro viaduct/ 2 lane flyover in urban area.	<table border="1"> <tr> <th colspan="2">Modifications Requested</th> </tr> <tr> <th>Minimum Qualification &amp; upper age limit</th> <th>Minimum Overall Experience</th> <th>Specific Experience of Similar Nature</th> </tr> <tr> <td>Graduation in Civil Engineering Upper age limit 70 years</td> <td>20 years</td> <td>Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning &amp; execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.</td> </tr> </table>	Modifications Requested		Minimum Qualification & upper age limit	Minimum Overall Experience	Specific Experience of Similar Nature	Graduation in Civil Engineering Upper age limit 70 years	20 years	Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning & execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.
Key Professionals																
Team Leader	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning & execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span as TL.															
Resident Engineer	Out of 20 years' experience, 5 year experience as a Resident Engineer. Minimum 5 years' experience of planning & execution/ supervision of one Elevated metro viaduct/ 2 lane flyover in urban area.															
Modifications Requested																
Minimum Qualification & upper age limit	Minimum Overall Experience	Specific Experience of Similar Nature														
Graduation in Civil Engineering Upper age limit 70 years	20 years	Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning & execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.														
			<table border="1"> <tr> <th colspan="2">Position</th> </tr> <tr> <th colspan="2">Key Professionals</th> </tr> <tr> <td>Team leader</td> <td>Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning &amp; execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.</td> </tr> </table>	Position		Key Professionals		Team leader	Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning & execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.							
Position																
Key Professionals																
Team leader	Out of 20 years' experience, 5 years experience as a Team Leader TL/ Project Manager/ Resident Engineer. Experience in planning & execution/ supervision of one completed project having minimum 1500-meter Viaduct length in urban area as TL/ Project Manager/ Resident Engineer.															



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)**  
**Common Set of Clarifications (CSC-I)**

	65 years	Experience in planning & execution /supervision of one completed flyover/Metro having minimum 1500 meter Viaduct length in urban area. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span	Resident Engineer	Graduation in Civil Engineering Upper age limit 65 years	15 Years	Out of 20 years' experience, 5 year experience as a Resident Engineer/ Asst. Resident Engineer. Minimum 5 years' experience of planning & execution / supervision of one Elevated metro viaduct / 2 lane flyover/ Major Bridge/ ROB.
Quality Control /Quality Assurance Engineer	Graduation in Civil Engineering Upper age limit 65 years	Out of 15 year experience, minimum 5 years' experience as a Quality Control /Quality Assurance Engineer. Experience of at least 1 completed project of Elevated metro / 2 lane flyover /Bridge costing not less than 100 Crore as a Quality Control / Quality Assurance Engineer	Quality Control /Quality Assurance Engineer	Graduation in Civil Engineering Upper age limit 65 years	10 year	Out of 10 years experience, minimum 5 years experience as a Quality Control / Quality Assurance Engineer. Experience of at least 2 completed project of Elevated metro / 2 lane flyover /Bridge/ Urban Road/ Highway project as a Quality Control / Quality Assurance Engineer.
Contract specialist	Graduation in Civil Engineering Upper age limit 70 years	Out of 20 year experience minimum 10 years' experience as Contract Engineer / Contract Specialist of project. Experience of at least 1 completed project of elevated metro /Monorail viaduct /flyover/ROB costing not less than 300 Crore as a Contract Engineer / Contract Specialist				



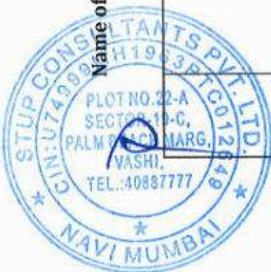
*beul*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

<p>Safety Engineer</p> <p>Minimum 5 year experience in Elevated metro viaduct/ 2 lane flyover in urban area as safety Engineer</p> <p>15 Year</p> <p>Graduation in Civil Engineering OR Diploma in Civil/ Safety Upper age limit 65 years</p>	<p>Contract specialist</p> <p>Safety Engineer</p> <p>10 Year</p> <p>Graduation in Civil Engineering OR Diploma in Civil / Safety Upper age limit 65 years</p>	<p>Out of 15 year experience minimum 10 years' experience as Contract Specialist/ Documentation Expert/ Project Manager. Minimum experience in 1 project in similar capacity costing not less than 100 Cr.</p>		
<p>Geo-Technical/ Foundation Engineer</p> <p>Minimum 10 years in Elevated metro/ 2 lane flyover in urban area as geo-technical engineer</p> <p>15 Year</p> <p>BE civil OR Upper age limit 65 years</p>	<p>Contract specialist</p> <p>Geo-Technical / Foundation Engineer</p> <p>15 Year</p> <p>BE civil OR Upper age limit 65 years</p>	<p>Out of 15 year experience minimum 10 years in Elevated metro/ 2 lane flyover/ ROB/ Major Bridges in as safety Engineer.</p>		
<p><b>Support Staff</b></p> <p>SS-2 Transportation/ Traffic engineer</p> <p>Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.</p> <p>15 Year</p> <p>B.E. Civil, M. Tech in ME in Transportation / Traffic Engineering Upper age limit 65 years</p>			<p>Contract specialist</p> <p>Support Staff Transportation/ Traffic Engineer</p> <p>10 Year</p> <p>B.E. Civil, M. Tech / ME in Transportation/ Traffic Engineer</p>	<p>Out of 15 year experience minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area</p>



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

			ing, Upper age limit 65 years		
		<p><b>Note :- To bring project cost to present cost, an updation factor @ 10% per annum shall be considered for the projects of Key personnel's.</b></p>			
5	III. GENERAL CONDITION OF CONTRACT Clause No. 4.5 Page 49	4.5 Removal and / or replacement of personnel	We request to allow replacement of key personnel without deduction of fees after completion of original time period of 36 months (i.e. during extended period). In such case, replacement with equal or better qualification & experience shall be permitted.	Please refer to Sr No 6 & 7 of CSD-I	
<b>2. M/s. Louis Berger International WSP Company</b>					
6	I-B: INSTRUCTIONS TO THE BIDDER Clause Page 15 Sr no 2(2)	2. Eligibility of Criteria 2. Minimum average annual financial turnover of INR 10.00 Crore in last three financial years ending 31 <sup>st</sup> March 2020 in the Consultancy services as certified by Chartered Accountant.	We request you to kindly consider the previous three years Annual Financial turnover i.e. FY 2016-17, 2017-18 & 2018-19	Bid stipulation shall prevail	
7	I-B Instruction to bidder clause-4 (iv) Page-17,	iv) The consultancy fees will be fixed as quoted by consultant firm in tender irrespective of the accepted tender cost of work to the contractor as well as final cost of the work. No increase/ decrease in the consultant's fees will be considered for increase / decrease in cost of work and due to extra work or works under provisional Sum.	In case of extra work or works under provisional cost of the Contractor, there will be two possibilities: <ul style="list-style-type: none"> <li>• Consultant will have to mobilize additional staff than earlier anticipated based on the nature of extra work - in this case we request that the Client should accept additional fees - please confirm</li> <li>• Consultant will have to mobilize staff for longer</li> </ul>	Bid stipulation shall prevail	

  
**Chief Engineer**  
 Engineering Division  
 M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

<p>8</p> <p>General Condition of Contract Mode of Billing &amp; payment clause 6.4, (c) Page-52,</p>	<p>(c) The Employer shall cause the payment of the Consultants icily as given in schedule of payment above within sixty (60) days after the receipt by the Employer of bills with supporting documents. Only such portion of a monthly statement that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultants, the Employer may add or subtract the difference from any subsequent payments. Interest at the rate specified in the SC shall become payable as from the above due date on any amount due by, but not paid on, such due date.</p>	<p>duration than earlier anticipated – in this case we request that the Client should give additional time as well as addition fees – please confirm.</p> <p>The duration of sixty (60) days for making the payment to the Consultant will create cashflow issue. We refer to similar tenders from MMRDA for e.g. Metro Rail PMC where the payment is made within 30 days. We have attached relevant extracts from one of the recent tenders from MMRDA for you ready reference.</p> <p>We strongly request that the payment should be made to the Consultant within thirty (30) days after submission of valid invoice.</p> <p>Please refer enclosure 1 for relevant extracts</p>	<p>Bid stipulation shall prevail</p>
<p>9</p> <p>Removal and / or replacement of personnel Page-49 clause 4.5(d)</p>	<p>d) After award of contract the Client expects all of the proposed key personnel to be available during implementation of the contract. The client will not consider substitutions during contract implementation except under exceptional circumstances. For the reason other than death/ extreme medical ground (i) for total replacement up to 10% of key personnel, remuneration shall be reduced by 10% (ii) for replacement between 10% to 50%, remuneration shall be reduced by 15% (iii) for replacement beyond 50% of the total key personnel, the Client may initiate debarment proceedings so as to debar such consultant for future projects of MMRDA for a period of 12 months to 24 months. If, for any reason beyond the reasonable control of the consultants, it becomes necessary to replace any of the personnel, the consultants shall forthwith provide as a replacement a person of equivalent</p>	<p>The penalty for substitution is high in context of the present pandemic situation. The present COVID-19 situation has further constrained the ability of candidates to commit to project or firms due to health-related concerns.</p> <p>Hence, we suggest as below:</p> <ul style="list-style-type: none"> <li>Penalties should be applicable only if the PMC is unable to demonstrate efforts to retain staff expressing intent to resign and leave</li> <li>PMC should be allowed for one replacement of the Key Staff without attracting penalties. However, the replacement candidate should fulfil the RFP criteria</li> </ul> <p>For any replacements after the one free replacement, a penalty of 5% of the billing rate for that position would be levied only for the first replacement thereafter and would be applicable only on the balance man months for that position. At all times the replacement candidate should</p>	<p>Bid stipulation shall prevail</p>

183

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)**  
**Common Set of Clarifications (CSC-1)**

	or better qualification and experience.	fulfil the RFP criteria	
10	General Mobilization Advance	For a project of this magnitude that entails the involvement of experts for extended durations, and in view of the requirement for the PMC to establish its own project offices, it is essential for a mobilization advance (without interest) to be extended by the MMRDA. We refer to similar tenders from MMRDA for e.g. Metro Rail PMC where an interest-free advance payment is made to the Consultant. We have attached relevant extracts from one of the recent tenders from MMRDA for you ready reference.  We strongly request that a mobilization advance payment of 10% should be made to the Consultant within thirty (30) days after effective date.  Please refer enclosure 2 for relevant extracts	Bid stipulation shall prevail
11	Special Condition of Contract Page 55, Clause 2.4	The time of contract shall be 36 months Plus DEFECT LIABILITY period of 60 months. The time will commence from work order issued to the Consultant.	Bid stipulation shall prevail
12	General Eligibility Criteria Design/proof checking & Project Management works (successfully completed works)	The Independent Engineer assignments undertaken for Metro rail projects that are developed on PPP basis involves work of review of designs, inspection and monitoring of construction works, review and testing of rail of safety and quality, inspection and testing of rail systems, review inspection and monitoring of O&M. In	Bid stipulation shall prevail



*ccard*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



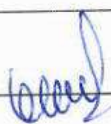
<p>13</p> <p>ITB - Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals Page 23,24</p>	<p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</p> <p>3.1) Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1500 m with precast segmental type superstructure in the last seven years as on Bid Due Date.</p> <p style="text-align: center;">7.5</p> <table border="1"> <thead> <tr> <th>No of project fulfilling criteria</th> <th>Mark</th> </tr> </thead> <tbody> <tr> <td>1 Project</td> <td>6</td> </tr> <tr> <td>More than 1 Project</td> <td>7.5</td> </tr> </tbody> </table> <p>3.iii) Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed minimum 2 lane elevated viaduct / Metro or Monorail Viaduct in urban area with precast segmental type superstructure having minimum 1500m length in the last seven years as on Bid Due Date.</p> <p style="text-align: center;">10</p>	No of project fulfilling criteria	Mark	1 Project	6	More than 1 Project	7.5	<p>fact 'Independent Engineer' provide comprehensive consultancy in a PPP project where GC and/or PMC is not employed.</p> <p>We therefore understand that completed Independent Engineering project experience will be considered for Eligibility Criteria (design/proof checking &amp; Project Management works). Please confirm.</p> <p>As per the present scoring criterion, a firm having experience of more than One project will score full marks. We request that for scoring, the marking system may be modified as below:</p> <ol style="list-style-type: none"> <li>For experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct             <ol style="list-style-type: none"> <li>length not less than 1500 m - 6 marks</li> <li>length greater than 2 times the minimum requirement (i.e. 3000 m) - 7.5 marks</li> </ol> </li> <li>For experience of Project Management consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct             <ol style="list-style-type: none"> <li>length not less than 1500 m - 8 marks</li> <li>length greater than 2 times the minimum requirement (i.e. 3000 m) - 10 marks</li> </ol> </li> </ol> <p><b>Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</b></p>	<p>Bid stipulation shall prevail</p>
No of project fulfilling criteria	Mark								
1 Project	6								
More than 1 Project	7.5								

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)**  
Common Set of Clarifications (CSC-1)



<p>14</p> <p>ITB-Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals</p> <p>Page 23,24</p>	<table border="1"> <thead> <tr> <th>No of project fulfilling criteria</th> <th>Mark</th> </tr> </thead> <tbody> <tr> <td>1 Project</td> <td>8</td> </tr> <tr> <td>More than 1 Project</td> <td>10</td> </tr> </tbody> </table> <p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</p> <p>3. ii) Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct / Metro or Monorail Viaduct with one span having structural steel superstructure of length not less than 40 meters in the last seven years as on Bid Due Date.</p> <p align="center">7.5</p> <table border="1"> <thead> <tr> <th>No of project fulfilling criteria</th> <th>Mark</th> </tr> </thead> <tbody> <tr> <td>1 Project</td> <td>6</td> </tr> <tr> <td>More than 1 Project</td> <td>7.5</td> </tr> </tbody> </table> <p>3.iv) Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed 2 lane elevated viaduct/ Metro or Monorail Viaduct in Urban Area with one span having structural steel superstructure of length not less than 40 meters in the last seven years as on Bid Due Date.</p>	No of project fulfilling criteria	Mark	1 Project	8	More than 1 Project	10	No of project fulfilling criteria	Mark	1 Project	6	More than 1 Project	7.5	<p>As per the present scoring criterion, a firm having experience of more than One project will score full marks. We request that for scoring, the marking system may be modified as below:</p> <p>1. For experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct with one span having structural steel superstructure of length not less than 40 meters</p> <p>a. length not less than 40 metres – 6 marks</p> <p>b. length greater than 2 times the minimum requirement (i.e. 80 m) – 7.5 marks</p> <p>2. For experience of Project Management consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct with one span having structural steel superstructure of length not less than 40 meters</p> <p>a. length not less than 40 metres – 12 marks</p> <p>length greater than 2 times the minimum requirement (i.e. 80 m) – 15 marks</p>	<p>Bid stipulation shall prevail</p>
No of project fulfilling criteria	Mark														
1 Project	8														
More than 1 Project	10														
No of project fulfilling criteria	Mark														
1 Project	6														
More than 1 Project	7.5														

  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



	<p>15</p> <table border="1"> <thead> <tr> <th>No of project fulfilling criteria</th> <th>Mark</th> </tr> </thead> <tbody> <tr> <td>1 Project</td> <td>12</td> </tr> <tr> <td>More than 1 Project</td> <td>15</td> </tr> </tbody> </table>	No of project fulfilling criteria	Mark	1 Project	12	More than 1 Project	15		
No of project fulfilling criteria	Mark								
1 Project	12								
More than 1 Project	15								
<p>Our understanding with respect to the referred clause is as below:</p> <ul style="list-style-type: none"> <li>For any additional work beyond the scope of services, the deployment of staff will be increased in such a way that any such increase shall be within the Ceiling amount.</li> <li>However, if the increase in deployment of staff causes the payment to exceed the Ceiling amount, the payments will be made after written agreement between Client and Consultant to modify the terms and conditions of the Contract.</li> </ul> <p>Please confirm</p>	<p>(c) If additional work is required beyond the scope of the Services specified in <b>Appendix A</b>, the estimated of engagement of Key Personnel set forth in <b>Appendix C</b> may be increased by agreement in writing between the Employer and the Consultants, provided that any such increase shall not, except as otherwise agreed, cause payments under this Contract to exceed the ceilings set forth in Clause GC 6.1 (b) of this Contract.</p>	<p>15 General Conditiona of Contract Description of personnel Clause 4.2 (c) Page 48</p>	<p>Bid stipulation shall prevail</p>						
<p>Similar to the Dispute Resolution provisions in most of the MMRDA Contracts, we note that any dispute between the parties that cannot be settled by mutual agreement involving the top Managements of both the parties shall be referred for final settlement to the arbitration by appointing one or more arbitrator agreed between the parties and the said arbitration shall be carried out in accordance with the Indian Arbitration and Conciliation Act 1996 or such other version current at the time of the referral under this clause.</p>	<p>8.2.1 If a dispute of any kind whatsoever arises between the Engineer-in-charge and the Consultant in connection with, or arising out of, the Contract or the scope of the work, whether during the study or after completion of the study and whether before or after repudiation or termination of the Contract, including any dispute as to any opinion, instruction, determination, certification or valuation of the Engineer In charge, the matter shall be in the first place, be referred in writing to the Engineer In charge within 30 days of its occurrence for review, with a copy to the Employer. If the Consultant fails to refer the dispute for review within 30 days, the Engineer In charge's decision shall be final and binding on the Consultant. Such reference shall state that it is</p>	<p>16 Special Conditions of contract- Disputes shall be settled in accordance with the following provisions Clause 8.2 Page 57;</p>	<p>Bid stipulation shall prevail</p>						

  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



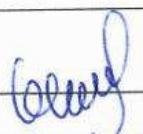
	<p>made pursuant to this Clause. No later than the fourteenth day after the day on which he received such reference, the Engineer In charge shall give notice of his decision to the Employer and the Consultant. Such decision shall state that it is made pursuant to this Clause.</p> <p>Notwithstanding the arising of any dispute, unless the Contract has already been repudiated or terminated, the Consultant shall, in every case, continue to proceed with the work with all due diligence and the Consultant and the Engineer In charge shall give effect forthwith to every such decision unless and until the same shall have been revised, as hereinafter provided.</p> <p>8.2.2 If either the Employer or the Consultant disagrees with the decision of the Engineer In charge, the decision shall then be referred by the Employer or by the Consultant, within 30 days of the decision of the Engineer-In-charge to the Metropolitan Commissioner, MMRDA. The decision of the Metropolitan Commissioner, MMRDA shall be final and binding on both the parties.</p>		<p>We request you to consider below mentioned criteria for Structural Design Engineer PC Position:</p> <ul style="list-style-type: none"> <li>• Out of 15 years' Experience, 10 years' experience as a Structural Engineer</li> </ul>	<p>Bid stipulation shall prevail</p>
<p>17</p>	<p>Appendices Qualification and experience requirement for key professional Staff Clause no 1.30 Page 85,</p>	<p>Structural design Engineer PC Out of 20 years' experience, 10 years' experience as a Structural design Engineer. Having experience in designing/ Proof checking of pre-stressed Elevated metro/ min 2 lane flyover/ ROB/ Major Bridge projects having precast segmental work at least 1500 meter length in urban area.</p>		

*blue*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)**  
Common Set of Clarifications (CSC-I)



<p>Appendix D Fees and payment schedule Page 92</p>	<p>Structural design Engineer Steel Out of 20 years' experience, 10 years' experience as a Structural design Engineer. Experience of design/ Proof checking of Steel superstructure of Elevated metro viaduct / 2 lane flyover/ ROB/ Major Bridge having steel superstructure viaduct/ ROB of at least 40 meter span.</p>	<p>We request you to consider below mentioned criteria for Structural Design Engineer PC Position:</p> <ul style="list-style-type: none"> <li>Out of 15 years' Experience, 10 years' experience as a Structural Engineer</li> </ul>	<p>Bid stipulation shall prevail</p>								
<p>19</p>	<p><b>4. Break-up of the fees payable for the different periods:</b> The total fee payable will be divided into 4 parts and paid as indicated below:</p> <table border="1"> <thead> <tr> <th>Cost of project in core</th> <th>% fees payable during different periods</th> </tr> </thead> <tbody> <tr> <td>1 Scrutiny of design and working drawings submitted by the Contractor for execution.</td> <td>15%</td> </tr> <tr> <td>2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance and other allied services, running account bills etc.</td> <td>75%</td> </tr> <tr> <td>3 Miscellaneous activities viz. As build drawings, Final bill of Contractor &amp; Maintenance Manual, Final handing over of facility to corporation/PWD at the</td> <td>5%</td> </tr> </tbody> </table>	Cost of project in core	% fees payable during different periods	1 Scrutiny of design and working drawings submitted by the Contractor for execution.	15%	2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance and other allied services, running account bills etc.	75%	3 Miscellaneous activities viz. As build drawings, Final bill of Contractor & Maintenance Manual, Final handing over of facility to corporation/PWD at the	5%	<p>The payment terms as per current stipulation for this tender are on lump sum basis further broken up for 4 different periods of project implementation. The Client expects that all manpower should be deployed on the project site for 100% of duration, however, large amounts of payments (over 40%) are being retained from all stages of work either for construction progress or for DLP. This is Not Acceptable and is a recipe for Consultant to either fail because of cashflow issues or fall into unethical practices. In addition, the consultant is still being penalized even in the case the contractor fails in delivering the project due to their own reasons,</p> <ul style="list-style-type: none"> <li>Client's such as NHAI, RVNL as well as MMRDA (for MTHL GC) have more reasonable payment terms. We have attached relevant extracts from recent tenders invited by NHAI, RVNL etc. for you ready reference</li> <li>Instead of bifurcation of overall fees in 4 parts, our proposed suggested payment terms is bifurcated in two parts as below:                     <ul style="list-style-type: none"> <li>Regular payment - 90% to be paid in equal monthly installments over the duration of 36 months</li> <li>Progress related payment - 10% to be paid as per the physical progress of the contractor. If the delay</li> </ul> </li> </ul>	<p>Please refer to Sr No 9 of CSD-I</p>
Cost of project in core	% fees payable during different periods										
1 Scrutiny of design and working drawings submitted by the Contractor for execution.	15%										
2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance and other allied services, running account bills etc.	75%										
3 Miscellaneous activities viz. As build drawings, Final bill of Contractor & Maintenance Manual, Final handing over of facility to corporation/PWD at the	5%										

  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



<table border="1"> <tr> <td>end of DLP.</td> <td></td> </tr> <tr> <td>4 Supervision during liability period.</td> <td>Defects 5%</td> </tr> </table>	end of DLP.		4 Supervision during liability period.	Defects 5%	<p>to the progress is not attributable to the Consultant, the payment will be released by the Client to the Consultant.</p> <p>An amount of 5% to be retained from each payment. The retained amount shall be released at the start of DLP period on submission of a Bank Guarantee equivalent to the retention amount. The Bank Guarantee shall be released at the end of Defects Liability period of 12 months.</p>	<p>Contractor's schedule including the design and construction phases and timeline will be made available in office time to interested bidders.</p>
end of DLP.						
4 Supervision during liability period.	Defects 5%					
<p>4.2.1 The proportionate fees should be <b>70% for manpower deployment and 30% for progress related component</b>. At the time of signing the agreement, key staff to be deployed should be mentioned in the Agreement and if any short fall occurs in it, the fee should be deducted proportionately. A condition to this effect is clearly included in the document. For extended period, the fees towards supervision (Manpower deployment and progress) may be paid by working out proportionately limiting to the monthly fees being paid in the original contract if staff is deployed as per TOR.</p>	<p>We request the Client to provide us copy of EPC Contractor's schedule including the design and construction phases and timeline</p>					
<p>Appendix D Fees against manpower deployment and fees against progress of works</p> <p>Clause 4.2.1 Page 93</p> <p>If the progress of work is very slow due to unforeseen reasons during the operation period of contract i.e. during original &amp; extended period, employer may direct for reduction of staff in manpower deployment in proportion to work front available &amp; fees towards the manpower deployment will be reduced in proportion to reduced manpower deployment. No claims in this regard will be entertained for reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary.</p>						

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Appendix D  
Clause 5  
Page 94



**Appendix D**  
**5. Payments if Project is delayed:**  
If the actual completion time extends beyond the base completion and variation the payment will be made as follows

If the actual completion time extends beyond the base completion and variation the payment will be made as follows:

	Base Completion as per contract	Variation period
1	Up to 9 Month	± 1 month
2	9 to 15 Month	± 2 months
3	15 to 36 month	± 3 months

In the event of construction extended beyond base completion + variation, the monthly payment will be subject to the ceiling as given below:

Fees payable per month = Total Fees ( as mentioned in Appendix D at Sr No 4.2 i.e.(75 %)

(Base completion Time limit + variation period in Month)

The payments will be worked out in proportion to the actual manpower deployed and approved by Engineer-In Charge during period under consideration. The payment towards **financial** progress related fees shall be paid to the PMC in proportion to the financial progress of the work till end of

As per Clause 5, in case of delay the payment will be made based on the provided formula. However, it is further noted that payment will be made in proportion to actual manpower deployed. There is therefore ambiguity in the present clause. To avoid ambiguity during project execution, we provide our interpretation of Clause 5 as follows:

- It is our understanding from the RFP that Clause 5 would be applicable for the period beyond the construction phase (36 months) plus the variation period of 3 months, i.e. after 39 months
- We request that the formula be revised as below:  
Fees payable per month = total fees (90%)/ (base time+variation period)

Please refer to Sr No 9 of CSD-1

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



22	Appendix-A Page no 60	the project including extended period (if any). For reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary.	Appendix-A <b>Project Management Consultancy</b>	DPR copy is available on MMRDA website																
23	Online E tender Schedule Page 8	Last date of Submission is on 23/11/2020	We request you to provide at least 2 weeks' after reply to pre-bid queries are issued	Please refer to Sr No 1 & 2 of CSD-I																
24	Appendices Minimum Key Manpower for DLP Page no 90	Minimum Key Manpower for DLP	We refer to the minimum manpower and corresponding man-months of design related staff positions and our comments are as below  1. As per the minimum manpower details, the positions corresponding to Structural Engineer (PC & Steel), Geotechnical Engineer, Transportation /Traffic Engineer are to be deployed on a part-time basis (50% deployment per month)  2. Proof-checking of such complex structures requires involvement of well-experienced senior-level Key Professional supported by mid-level and junior staff. However, the proposed team as per RFP does not include any mid-level and junior staff for supporting the Key Professional.  3. We therefore suggest that the Consultant should be allowed to use home office experts (from Consultant's main office in Mumbai) for the positions that are on part-time basis. The experts will be available at the project site on as required basis. This solution will really add value to the project since the Consultant's office will be having necessary wherewithal's including support staff and software for effective delivery of the	Please refer to Sr No 12 of CSD-I																
	Estimate of costs	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Key Personnel</th> <th>No of persons</th> <th>No. of Man days</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Resident Engineer</td> <td>1.00</td> <td>60</td> </tr> <tr> <td>2</td> <td>Contract specialist</td> <td>1.00</td> <td>60</td> </tr> <tr> <td>3</td> <td>Field Engineer</td> <td>1.00</td> <td>60</td> </tr> </tbody> </table>	Sr. No.	Key Personnel	No of persons	No. of Man days	1	Resident Engineer	1.00	60	2	Contract specialist	1.00	60	3	Field Engineer	1.00	60		
Sr. No.	Key Personnel	No of persons	No. of Man days																	
1	Resident Engineer	1.00	60																	
2	Contract specialist	1.00	60																	
3	Field Engineer	1.00	60																	
	Estimate of costs	<p><b>Estimate of costs</b></p> <p><b>Remuneration of Key Professional Staff</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Key Personnel</th> <th>Rate</th> <th>No of persons</th> <th>No. of Man Months</th> <th>Man Months &amp; Phase</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sr. No.	Key Personnel	Rate	No of persons	No. of Man Months	Man Months & Phase	Amount											
Sr. No.	Key Personnel	Rate	No of persons	No. of Man Months	Man Months & Phase	Amount														

Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

I	per person per month	Construction	DLP	Total Manmonths	proofchecking services. Similar solution is being effectively used on similar projects such as Mumbai Coastal Road project as well. Please confirm if this is acceptable.		
						A. Key professional staff	
K-1	Team Leader	1	1.00	36	0	36	
K-2	Resident Engineer	1	1.00	36	2	40	
K-3	Structural Engineer PC	1	0.50	18	0	18	
K-4	Structural Engineer Steel	1	0.50	18	0	18	



*beef*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

K-5	Quality Control Engineer	1	1.00	36	0	36	0	3	6
K-6	Contract specialist	1	0.50	18	2	18	2	2	2
K-7	Safety Engineer	1	1.00	36	0	36	0	3	6
K-8	Geotechnical / Foundation Engineer	1	0.50	18	0	18	0	1	8
Supporting staff									
SS-1.	Quantity surveyor	1	1.00	36	0	36	0	3	6
SS-2.	Transport	1	1.0	36	0	36	0	3	6



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

tation/ Traffic Engineer													
SS-3. Jr. Quantity surveyor	1	1.00	36	0	3	6							
SS-4. Jr. Quality Control Engineer	1	1.00	36	0	3	6							
SS-5. Surveyor	1	1.0	36	0	3	6							
SS-6. Lab technician	2	1.00	36	0	3	6							
SS-7 Field Engineer	4	1.00	36	0	4	0							
Field Engineer	1												2



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



SS-8	Utility Engineer	1	1.0	36036	
SS-9	Expert in social development (R&R)	1	1.0	36036	

3.M/s. TPF Engineering Pvt. Ltd		
25	<p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>Eligibility of Criteria Page 15</p> <p>2. Eligibility of Criteria</p> <p>The bidding firm must fulfill the following eligibility criteria;</p> <ol style="list-style-type: none"> <li>Experience as Project Management Consultant for Construction of Civil engineering infrastructure works for Govt. / Semi. Govt. works for last 7 years as on bid due date.</li> <li>Minimum average annual financial turnover of INR 10.00 Crore in last three financial years ending 31<sup>st</sup> March 2020 in the Consultancy services as certified by Chartered Accountant.</li> <li>Experience as Design Consultant including preparation of designs / Proof checking of Designs of <i>successfully completed similar work(s) during last seven years</i> as on Bid</li> </ol>	<p>Demerger under orders of Honourable High court cannot be ignored &amp; Experience of earlier entity has to be considered as experience of demerged entity respecting the orders.</p> <p>This clause &amp; statement in the RFP/ NIT especially with reference to demerged entities is perhaps intended to apply to bidders where demerger is not by the order of the Honourable High court. We therefore, request this clause to be suitably amended to permit judicially demerged entities which are legally permitted, to use the references, while participating in the bid. Otherwise, it amounts to ignoring court orders and goes against the tenets of business rules as per the laws of the land. MMRDA cannot consider itself to be above the orders issued by the Honourable High court of the land.</p>
		Bid stipulation shall prevail

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

	<p>Due Date.</p> <p>4. Experience as Project Management Consultant including technical supervision, contract management, monitoring, quality assurance and other allied services of <i>successfully completed similar work(s) during</i> in the last seven years as on Bid Due Date.</p> <p>5. Joint venture of firms is not allowed for participation in the bid.</p> <p>Similar work(s) are defined as follows;</p> <p>A. A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m; <b>and</b></p> <p>B. A completed project having minimum 2-lane elevated viaduct of flyover/Metro viaduct in urban area having at least one span of structural steel superstructure with span length not less than 40 meters.</p> <p>The works mentioned at A. and B. above need not be from the same project.</p> <p>Certificate of satisfactory completion of similar works as well as works being performed, details of Key personnel etc. shall be uploaded by the bidder.</p> <p>Certificate from Client /Employer in the name of bidding firm for satisfactory completion of similar works shall clearly fulfill criteria mentioned in Eligibility criteria above. Experience of parent company will not be considered.</p> <p>The experience claimed by the bidder from the</p>	<p>Besides, restrictive clauses like these will lead to severely restricted competition in this bid and will amount to showing undue favor to certain parties.</p>
--	--	--



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

	<p>demerged/parent/subsidiary/sister/associate company of the bidder shall not be considered for the purpose of the eligibility criteria above.</p>		
<p>26</p> <p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>Similar work(s) are defined as follows;</p> <p>A. A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m;</p> <p>and</p> <p>B. A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area having at least one span of structural steel superstructure with span length not less than 40 meters.</p>	<p>We request you to consider the river bridge/Bridge on water experience also and hence request you to modify the clause as below:</p> <p>Similar work(s) are defined as follows;</p> <p>A. A completed project having minimum 2-lane elevated viaduct of river bridge/Bridge on water flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m;</p> <p>and</p> <p>B. A completed project having minimum 2-lane elevated viaduct of river bridge/bridge on water flyover/Metro Viaduct in urban area having at least one span of structural steel superstructure with span length not less than 40 meters.</p>	<p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>Similar work(s) are defined as follows;</p> <p>A) A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m;</p>	<p>Bid stipulation shall prevail</p>
<p><b>4. M/s. Composites Combine Technocrats Pvt. Ltd</b></p>			
<p>27</p> <p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>Similar work(s) are defined as follows;</p> <p>A) A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m;</p>	<p>Elevated viaduct with PSC/Structural steel superstructure should be allowed instead of only segmental viaduct.</p>	<p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>Similar work(s) are defined as follows;</p> <p>A) A completed project having minimum 2-lane elevated viaduct of flyover/Metro Viaduct in urban area with length of precast segmental type superstructure not less than 1500 m;</p>	<p>Bid stipulation shall prevail</p>



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

199

<p>Page 15</p>	<p>and</p> <p>B) A completed project having minimum 2-lane elevated viaduct of flyover/Metro viaduct in urban area having at least one span of structural steel superstructure with span length not less than 40 meters.</p>	<p>Please refer to Sr No 4 of CSD-1</p>																		
<p>28</p> <p>INSTRUCTIONS TO THE BIDDER</p> <p>Clause 25.3 Page 23</p>	<p><b>I-B: INSTRUCTIONS TO THE BIDDER</b></p> <p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31<sup>st</sup> March 2019 in the Consultancy services as certified by CA.</td> <td>10</td> </tr> <tr> <td></td> <td>Average Annual Turnover:</td> <td></td> </tr> <tr> <td></td> <td>≥ INR 10.00 but &lt; 25.00 Crore :</td> <td>5 Marks</td> </tr> <tr> <td></td> <td>≥ INR 25.00 but &lt; 50.00 Crore :</td> <td>7 Marks</td> </tr> <tr> <td></td> <td>≥ INR 50.00:</td> <td>10 Marks</td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks	2.	Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31 <sup>st</sup> March 2019 in the Consultancy services as certified by CA.	10		Average Annual Turnover:			≥ INR 10.00 but < 25.00 Crore :	5 Marks		≥ INR 25.00 but < 50.00 Crore :	7 Marks		≥ INR 50.00:	10 Marks	<p>We request you to consider average turnover of 7Cr instead of 10Cr.</p>
Sr. No.	Parameter	Maximum Marks																		
2.	Minimum average annual financial turnover of INR 10 Crore in last three financial years ending 31 <sup>st</sup> March 2019 in the Consultancy services as certified by CA.	10																		
	Average Annual Turnover:																			
	≥ INR 10.00 but < 25.00 Crore :	5 Marks																		
	≥ INR 25.00 but < 50.00 Crore :	7 Marks																		
	≥ INR 50.00:	10 Marks																		

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

5. M/s. Aakar Abhinav Consultant Pvt. Ltd

<p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>5. Joint venture of firms is not allowed for participation in the bid.</p>	<p>As per bid document JV is not allowed. We request to allow the JV for bid submission</p>	<p>Bid stipulation shall prevail</p>
<p>6. M/s. Amiamd Consulting Pvt. Ltd</p> <p>30</p> <p>I-B: INSTRUCTIONS TO THE BIDDER</p> <p>2. Eligibility of Criteria</p> <p>5. Joint venture of firms is not allowed for participation in the bid.</p>	<p>We are requesting you to please Allow Joint Venture / Consortium.</p>	<p>Bid stipulation shall prevail</p>



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

Name of Work	Tendered cost of Construction Work	Cost of Blank Tender Form (Per Each)	Earnest Money Deposit (In Rs.)	Performance security	Contract Period	Bid stipulation
Providing Project Management Consultancy Services for the work of Design and Construction of Sewri to Worli Elevated Connector (Third call)	1051.86 Crore	5,600/- (Including GST)	10,51,860/-	5 % of accepted contract value.	36 Months (including monsoon) plus DLP period 60 month	Our firm is registered with MSME under class "E" in Ministry of Micro, small & Medium Enterprises. For MSME registered firm there is relaxation / concession in EMD & Tender Fee as per MSME The Gazette of India Part-II, section 3, Sub section-ii, published on 26th March 2012. Clause no, 10. Copy of same enclosed herewith. So, kindly consider the same.

Details of work Clause 1 Page 8



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

<p>Maximum Marks and Criteria for Marking</p> <p>Clause 25.3</p> <p>Page 25</p>	<p>Parameter</p>	<p>Maximum Marks and Criteria for Marking</p>	<p>40</p>	<p>As mentioned in marking Criteria, higher qualifications carries marks. So please confirm PGDM will considered as higher qualification??</p>	<p>Bid stipulation shall prevail</p>
<p>Key professional staff qualifications and competence for the assignment:</p>	<p>Key persons</p>	<p>Maximum Marks</p>	<p>70 % : Relevant Experience and Adequacy for the project</p>	<p>5% : Employment With Firm</p>	<p>25% : Educational Qualification</p>
<p>Higher Experience</p>	<p>Undertaking for availability</p>	<p>Minimum Qualification as per Appendix</p>	<p>Minimum Experience as per Appendix A</p>	<p>Employment With Firm</p>	<p>Higher Experience</p>



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

K-1	Team Leader	8	1.6	2	0.30	0.4	4.48	5.6
K-2	Resident Engineer	6	1.2	1.5	0.20	0.3	3.36	4.2
K-3	Structural Engineer PC	6	1.2	1.5	0.20	0.3	3.36	4.2
K-4	Structural Engineer Steel	6	1.2	1.5	0.20	0.3	3.36	4.2
K-5	Quality Control Engineer	4	0.8	1	0.15	0.2	2.24	2.8
K-5	Contract specialist	6	1.2	1.5	0.20	0.3	3.36	4.2



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

Sl. No.	Particulars	0.1	0.2	0.3	0.4	0.5	0.8	1.12	1.4		
K-7	Safety Engineer				2	0.4	0.5	0.08	0.1	1.12	1.4
K-8	Geotechnical/Foundation Engineering				2	0.4	0.5	0.08	0.1	1.12	1.4

Experience as Design Consultant including preparation of designs / Proof checking of Designs of successfully completed similar work(s) during last seven years as on Bid Due Date.  
Please clarify whether the bidder has to furnish details of similar works in hand in both annexure II & III and also clarify whether ongoing works would be consider for marking or not.

ANNEXURE II  
List of similar works in hand  
a) Experience as Design Consultant including preparation of designs / Proof checking of Designs of successfully completed similar work(s) during last seven years as on Bid Due Date.  
b) Experience as Project Management consultant including technical supervision, contract management, monitoring, quality assurance and other allied services of *successfully completed similar work(s) during* in the last seven years as on Bid Due Date

33  
ANNEXURE II  
ANNEXURE III  
Page 100, 101

Please refer to Sr No 11 of CSC-I



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

<p>Appendices Clause 1.15.21 Page 81</p>	<p>The consultants are required to make their own assessments of the manpower requirements in terms of man months for the different categories of personnel proposed to be deployed for the supervision works as envisaged in this TOR. The consultants shall address this aspect in their proposed methodology to be submitted to the Employer. Consultants are required to furnish CVs for the following key professional staff. CV's of field support staff are not required to be submitted, but the numbers and man months for such staff shall be included in the Technical Proposal and the costs in respect of these personnel are to be included in the Financial Proposal. The positions of field support staff will be evaluated only for the purpose of responsiveness and no points will be awarded for these positions</p>	<p>Please clarify whether bidder has to submit support staff Cvs along with the bid or not.</p>	<p>Bid stipulation shall prevail</p>																									
<p>35</p>	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Tender Schedule</th> <th>Bidder Schedule</th> <th>Start Date &amp; Time</th> <th>End Date &amp; Time</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Tender Authorization and Publishing</td> <td>-----</td> <td>10/11/20 20 1545 hrs</td> <td>10/11/20 20 1800hrs</td> </tr> <tr> <td>2.</td> <td></td> <td>Tender Document Download</td> <td>10/11/20 20 1800hrs</td> <td>22/11/20 20 1800hrs</td> </tr> <tr> <td>3.</td> <td></td> <td>Bid Preparation and Submission on line</td> <td>10/11/20 20 1801hrs</td> <td>23/11/20 20 1200 hrs</td> </tr> <tr> <td>4</td> <td>Pre-bid</td> <td>Period of submission</td> <td>12/11/20</td> <td>17/11/20</td> </tr> </tbody> </table>	Sr. No	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time	1.	Tender Authorization and Publishing	-----	10/11/20 20 1545 hrs	10/11/20 20 1800hrs	2.		Tender Document Download	10/11/20 20 1800hrs	22/11/20 20 1800hrs	3.		Bid Preparation and Submission on line	10/11/20 20 1801hrs	23/11/20 20 1200 hrs	4	Pre-bid	Period of submission	12/11/20	17/11/20	<p>It is requested to extend the date of submission of Bids by at least 10 working days from the date of issue of CSD / clarification to pre-bid points.</p>	<p>Please refer to Sr No 1 &amp; 2 of CSD-I</p>
Sr. No	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time																								
1.	Tender Authorization and Publishing	-----	10/11/20 20 1545 hrs	10/11/20 20 1800hrs																								
2.		Tender Document Download	10/11/20 20 1800hrs	22/11/20 20 1800hrs																								
3.		Bid Preparation and Submission on line	10/11/20 20 1801hrs	23/11/20 20 1200 hrs																								
4	Pre-bid	Period of submission	12/11/20	17/11/20																								

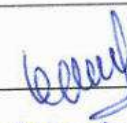


*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



meeting		of queries	20	20	1500Hrs
5		Pre-bid meeting at venue	17/11/20 20	1500 hrs	
6	Tender Closing	-----	23/11/20 20	1201hrs	23/11/20 20 1400 hrs
7	-----	Online Control Transfer of Bid	23/11/20 20 1401 hrs		24/11/20 20 1400 hrs
8	Opening Envelope A - Tender Fees, EMD	-----	24/11/20 20 1401 hrs		28/11/20 20 1800 hrs
9	Opening Envelope B - Technical Bid	-----	24/11/20 20 1401 hrs		28/11/20 20 1800 hrs
10	Opening Envelope C - Financial Bid if possible	-----	26/11/20 20 1000 hrs		28/11/20 20 1800 hrs
<b>7.M/s. Ayesa</b>					
36	Maximum Marks and Criteria for	Parameter	Maximum Marks and Criteria for Marking		Higher qualification As mentioned in marking Criteria, higher qualifications carry marks. So please confirm PGDM will considered as
					Bid stipulation shall prevail

  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

higher qualification?

Key professional staff qualifications and competence for the assignment:	40		70 % :	Relevant Experience and Adequacy for the project	Higher Experience	5.6
	Key persons	Max. Marks	5% :	Employment With Firm	Minimum Experience as per Appendix A	4.48
			25% :	Educational Qualification	Employment With Firm	0.4
				Higher qualification	Undertaking for availability	0.30
				Minimum Qualification as per Appendix A		2
						1.6
						8
K-1	Team Leader					



Marking Clause 25.3 Page 25

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

K-2	Resident Engineer	6	1.2	1.5	0.20	0.3	3.36	4.2
K-3	Structural Engineer PC	6	1.2	1.5	0.20	0.3	3.36	4.2
K-4	Structural Engineer Steel	6	1.2	1.5	0.20	0.3	3.36	4.2
K-5	Quality Control Engineer	4	0.8	1	0.15	0.2	2.24	2.8
K-5	Contract specialist	6	1.2	1.5	0.20	0.3	3.36	4.2
K-7	Safety Engineer	2	0.4	0.5	0.08	0.1	1.12	1.4



*Beaul*  
Chief Engineer  
Engineering Division  
M.M.R.D.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



K-8	Geo-Technical/Foundation/Drainage/Engineer	2	0.4	0.5	0.08	0.1	1.12	1.4	
37	Appendices Clause 1.15.21 Page 81	The consultants are required to make their own assessments of the manpower requirements in terms of man months for the different categories of personnel proposed to be deployed for the supervision works as envisaged in this TOR. The consultants shall address this aspect in their proposed methodology to be submitted to the Employer. Consultants are required to furnish CV's for the following key professional staff. CV's of field support staff are not required to be submitted, but the numbers and man months for such staff shall be included in the Technical Proposal and the costs in respect of these personnel are to be included in the Financial Proposal. The positions of field support staff will be evaluated only for the purpose of responsiveness and no points will be awarded for these positions							Bid stipulation shall prevail
38	Appendix C Minimum Manpower for Proof checking and during construction period	Sr. No.	Key Personnel	No of persons	No. of Man Months per person per month	The input of position K-3, K-4, K-6 & K-8 are provided 0.50 per month. As per our assessment for the similar type of project the input of Positions of K-3, K-4, K-6 & K-8 are 1.0 per month. It is requested to increase input for the above position as full time instead of 0.50 per month.			Bid stipulation shall prevail

*[Signature]*  
Chief Engineer  
Engineering Division  
M.R.D.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

Page no 90

A		Minimum Key professional staff	
K-1.	Team Leader	1	1.00
K-2.	Resident Engineer	1	1.00
K-3.	Structural Engineer PC	1	0.50
K-4.	Structural Engineer Steel	1	0.50
K-5.	Quality Control Engineer	1	1.00
K-6.	Contract specialist	1	0.50
K-7.	Safety Engineer	1	1.00
K-8.	Geo Technical/Foundation Engineer	1	0.50
<b>B</b>			
<b>Support staff</b>			
SS-1.	Quantity surveyor	1	1.00
SS-2.	Transportation/ Traffic Engineer	1	1.00
SS-3.	Jr. Quantity surveyor	1	1.00
SS-4.	Jr. Quality Control Engineer	1	1.00
SS-5.	Surveyor	1	1.00
SS-6.	Lab technician	2	1.00
SS-7.	Field Engineer	4	1.00
SS-8.	Utility Engineer	1	1.00



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



ss-9	Expert in social development (R&R)	1	1.0		
Minimum Key Manpower for DLP				Please refer to Sr No 12 of CSD-1	
As per Appendix C Manpower in DLP period for Resident Engineer, Contract Specialist and Field Engineer are 60 Nab-days each. But as per Annexure-V, Total Man-month for the position of K-2, K-6 and SS-6 & SS-7 are mismatch. It is requested, please clarify.					

Minimum Key Manpower for DLP			
Sr. No.	Key Personnel	No of persons	No. of Man days
1	Resident Engineer	1.00	60
2	Contract specialist	1.00	60
3	Field Engineer	1.00	60

Appendices			
Minimum Key Manpower for DLP			
Page no 90			
Estimate of costs			
Page no 103 & 104			

**Estimate of costs**

**Remuneration of Key Professional Staff**

Sr. No.	Key Personnel	Rate	No of persons	No. of Man Months per person per month	Man Months & Phase		Amount
					Construction	DLP	
<b>B. Key professional staff</b>							
K-1	Team Leader		1	1.00	36	0	36
					Total Manmonths		

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

K-2	Resident Engineer	1	1.00	36	2	40
K-3	Structural Engineer PC	1	0.50	18	0	18
K-4	Structural Engineer Steel	1	0.50	18	0	18
K-5	Quality Control Engineer	1	1.00	36	0	36
K-6	Contract specialist	1	0.50	18	2	22
K-7	Safety Engineer	1	1.00	36	0	36



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

K-8	Geo-Technical / Foundation Engineer	1	0.50	18	0	18
				Supporting staff		
SS-1.	Quantity surveyor	1	1.00	36	0	36
SS-2.	Transportation / Traffic Engineer	1	1.0	36	0	36
SS-3.	Jr. Quantity surveyor	1	1.00	36	0	36
SS-4.	Jr. Quality Cont	1	1.00	36	0	36



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

rol Engi neer									
SS- 5- Surv eyor	1	1.0	36	0	36				
SS- 6- Lab tech nicia n	2	1.00	36	0	36				
SS- 7 Field Engi neer	4	1.00	36	0	40				
Field Engi neer	1				2				
SS- 8 Utilit y Engi neer	1	1.0	36	0	36				
SS- 9 Expe rt in socia l deve lopment (R& R)	1	1.0	36	0					



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)**  
**Common Set of Clarifications (CSC-1)**



<p>ANNEXURE II LIST OF SIMILAR WORKS IN HAND</p>	<p>ANNEXURE III Page 100, 101</p>	<p>ANNEXURE III Page 100, 101</p>	<p>Experience as Design Consultant including preparation of design/ Proof checking of Design of successfully completed similar work(s) during last seven years as on Bid Due Date. Please clarify whether the bidder has to furnish details of similar works in hand in both annexure II &amp; III and also clarify whether ongoing works would be considered for marking or not.</p>	<p>Please refer to Sr No 11 of CSC-1</p>								
<p><b>8.M/s Shrikhande Consultants Pvt. Ltd</b></p>			<p>We request you to allow joint venture</p>	<p>Bid stipulation shall prevail</p>								
<p>41</p>	<p>I-B: INSTRUCTIONS TO THE BIDDER</p>	<p>Clause 2. Eligibility of criteria- 5 (A) &amp; 5(B) Page 15</p>	<p><b>I-B: INSTRUCTIONS TO THE BIDDER</b>  2. <b>Eligibility of Criteria:-</b> The bidding firm must fulfill the following eligibility criteria;  5. Joint venture of firms is not allowed for participation in the bid.</p>	<p>Bid stipulation shall prevail</p>								
<p>42</p>	<p>ITB Clause 25 sub clause 3 (i) Page 22</p>	<p>26. <b>Proposal Evaluation and Determination of Responsiveness</b>  3. <b>Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks</th> <th>Criteria for Marking</th> </tr> </thead> <tbody> <tr> <td></td> <td>2. Experience of the Firm in carrying out similar assignment during last 7 years</td> <td></td> <td></td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks	Criteria for Marking		2. Experience of the Firm in carrying out similar assignment during last 7 years			<p>Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1000 m with PSC / precast segmental / composite type superstructure OR 6 Lane of 850 m. with PSC / precast segmental / composite type superstructure in the last seven years as on Bid Due Date.</p>	<p>Bid stipulation shall prevail</p>
Sr. No.	Parameter	Maximum Marks	Criteria for Marking									
	2. Experience of the Firm in carrying out similar assignment during last 7 years											

*(Handwritten signature)*

**Chief Engineer  
Engineering Division  
M.M.R.D.A.**

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



	<p>i</p> <p>Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1500 m with precast segmental type superstructure in the last seven years as on Bid Due Date.</p>		<p>Design consultant having experience of preparation of designs / Proof consultant of at least 1 design assignment completed .....</p>	<p>Bid stipulation shall prevail</p>								
<p>43</p> <p>ITB</p> <p>Clause 25 sub clause 3 (i) Page 22</p>	<p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>3.Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks for Criteria Marking</th> </tr> </thead> <tbody> <tr> <td>3.</td> <td>Experience of the Firm in carrying out similar assignment during last 7 years</td> <td></td> </tr> <tr> <td>i</td> <td>Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1500 m with precast segmental type superstructure in the last seven years as on Bid Due Date.</td> <td></td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks for Criteria Marking	3.	Experience of the Firm in carrying out similar assignment during last 7 years		i	Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1500 m with precast segmental type superstructure in the last seven years as on Bid Due Date.			
Sr. No.	Parameter	Maximum Marks for Criteria Marking										
3.	Experience of the Firm in carrying out similar assignment during last 7 years											
i	Design consultant having experience of preparation of designs / Proof consultant of at least 1 completed minimum 2-lane elevated viaduct/Metro or Monorail Viaduct having length not less than 1500 m with precast segmental type superstructure in the last seven years as on Bid Due Date.											

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

<p>ITB Clause 25 sub clause 3 (ii) Page 22</p>	<p><b>25. Proposal Evaluation and Determination of Responsiveness</b> <b>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals:</b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks for Criteria Marking</th> </tr> </thead> <tbody> <tr> <td>ii</td> <td>3. Experience of the Firm in carrying out similar assignment during last 7 years</td> <td></td> </tr> <tr> <td></td> <td>Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed elevated viaduct / Metro or Monorail Viaduct in urban area having length not less than 1000 m with PSC / precast segmental / composite type superstructure OR 6 Lane of 850 m. with PSC / precast segmental / composite type superstructure in the last seven years as on Bid Due Date.</td> <td></td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks for Criteria Marking	ii	3. Experience of the Firm in carrying out similar assignment during last 7 years			Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed elevated viaduct / Metro or Monorail Viaduct in urban area having length not less than 1000 m with PSC / precast segmental / composite type superstructure OR 6 Lane of 850 m. with PSC / precast segmental / composite type superstructure in the last seven years as on Bid Due Date.		<p>Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed minimum 2 lane elevated viaduct / Metro or Monorail Viaduct in urban area having length not less than 1000 m with PSC / precast segmental / composite type superstructure OR 6 Lane of 850 m. with PSC / precast segmental / composite type superstructure in the last seven years as on Bid Due Date.</p>	<p>Bid stipulation shall prevail</p>
Sr. No.	Parameter	Maximum Marks for Criteria Marking										
ii	3. Experience of the Firm in carrying out similar assignment during last 7 years											
	Project Management consultant having experience of technical supervision, monitoring, quality assurance and other allied services of at least one completed elevated viaduct / Metro or Monorail Viaduct in urban area having length not less than 1000 m with PSC / precast segmental / composite type superstructure OR 6 Lane of 850 m. with PSC / precast segmental / composite type superstructure in the last seven years as on Bid Due Date.											
<p>45</p>	<p>Appendix- A Clause 1.30 Qualification and experience requirement for key professional Staff Page 84</p>	<table border="1"> <thead> <tr> <th colspan="2">Tender Condition</th> </tr> <tr> <th>Minimum Qualification &amp; upper age limit</th> <th>Minimum Overall Experience</th> </tr> </thead> <tbody> <tr> <td>Position</td> <td>Specific Experience of Similar Nature</td> </tr> <tr> <td colspan="2">Key Professionals</td> </tr> </tbody> </table>	Tender Condition		Minimum Qualification & upper age limit	Minimum Overall Experience	Position	Specific Experience of Similar Nature	Key Professionals		<p>Experience in planning &amp; execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL.</p>	<p>Please refer to Sr No8 of CSD-1</p>
Tender Condition												
Minimum Qualification & upper age limit	Minimum Overall Experience											
Position	Specific Experience of Similar Nature											
Key Professionals												



*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)



	Team Leader	Graduation in Civil Engineering Upper age limit 65 years	20 years	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning & execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span as TL.	We request you to exempt the Tender Form and EMD for MSME organizations as per the Central Government Notification on this subject.	Bid stipulation shall prevail
46	Detail E tender short notice page 8	Cost of Blank Tender Form (Per Each) - Rs. 5,600/- and Earnest Money Deposit Rs. 10,51,860/			We request you to exempt the Tender Form and EMD for MSME organizations as per the Central Government Notification on this subject.	Bid stipulation shall prevail
<b>9. M/s AECOM</b>						
47	ITB clause 2	ITB- Instruction to Bidders <b>2. Eligibility of Criteria:-</b> The bidding firm <b>must fulfill</b> the following eligibility criteria; <b>3. Experience as Design Consultant including preparation of designs / Proof checking of Designs of successfully completed similar work(s) during last seven years as on Bid Due Date.</b> Experience as Project Management Consultant including technical supervision, contract management, monitoring, quality assurance and other allied services of <b>successfully completed similar work(s) during in the last seven years as on Bid Due Date.</b>			MMRDA is humbly requested to consider the Eligible projects for last 10 years in lieu of last 7 years, since the flagship projects of AECOM are generally of longer duration.	Bid stipulation shall prevail

  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)

Please refer to Sr No 12 of CSD-I

• in Annexure V, page 103 and 104 there is an arithmetical mismatch of Total Man-months for the positions K-2, K-6 and SS-7. These may kindly be corrected.

Sr. No.	Key Personnel	Name	Rate	No of persons	No. of Man Months per person per month	Man Months & Phase			Amount
						Construction	DLP	Total Manmonths	
<b>A. Key professional staff</b>									
K-1	Team Leader			1	1.00	36	0	36	
K-2	Resident Engineer			1	1.00	36	2	40	
K-3	Structural Engineer PC			1	0.50	18	0	18	
K-4	Structural Engineer			1	0.50	18	0	18	

Annexure V  
Estimate of costs  
Remuneration of Key Professional Staff  
page 103 and 104



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
 Common Set of Clarifications (CSC-I)

Steel											
K-5 Quality Control Engineer	1	1.00	36	0	36						
K-6 Contract specialist	1	0.50	18	2	22						
K-7 Safety Engineer	1	1.00	36	0	36						
K-8 Geotechnical / Foundation Engineer	1	0.50	18	0	18						
Supporting staff											
SS-1. Quantity surveyor	1	1.00	36	0	36						



*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-1)

SS- 2.	Tran spor tatio n/ Traff ic Engi neer	1	1.0	36 0	36 0	36
SS- 3.	Jr. Qua ntity surv eyor	1	1.00	36 0	36 0	36
SS- 4.	Jr. Qual ity Cont rol Engi neer	1	1.00	36 0	36 0	36
SS- 5.	Surv eyor	1	1.0	36 0	36 0	36
SS- 6.	Lab tech nicia n	2	1.00	36 0	36 0	36
SS- 7	Field Engi neer	4	1.00	36 0	36 0	40



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



Field Engineer	1	2	3	4	5	6	7
SS-8 Utility Engineer	1	36	0	36	0		
SS-9 Expert in social development (R&R)	1	36	0	36	0		

49	Annexure II, page 100	<p><b>ANNEXURE II</b> <b>LIST OF SIMILAR WORKS IN HAND</b></p> <p>a) Experience as Design Consultant including preparation of designs / Proof checking of Designs of successfully completed similar work(s) during last seven years as on Bid Due Date</p> <p>b) Experience as Project Management consultant including technical supervision, contract management, monitoring, quality assurance and other allied services of <i>successfully completed similar work(s) during in the last seven years as on Bid Due Date</i></p>	Annexure II, page 100, which is the list of "Similar Works in Hand", but subsections a and b state "successfully completed similar works". This may kindly be amended	Please refer to Sr No 11 of CSD-I
50	e-Tender Short Notice	<p><b>e-Tender Short Notice</b></p> <p>Last date of Online submission 23/11/2020 upto 12.00 hrs</p>	Due to the ensuing holidays of Deepavali, Bhai Dhuj and Guru Nanak Jayanti coupled with the ongoing Covid 19 pandemic, it is requested to extend the Bid Due date by at	Please refer to Sr No 1 & 2 of CSD-I

*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
Common Set of Clarifications (CSC-I)



page no 7	E- Tender Schedule Page 8	2 weeks.
<b>DETAILED e-TENDER SHORT NOTICE</b> <b>2. Online E-Tender Schedule</b> Last date of Online submission 23/11/2020 upto 12.00 hrs		

  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
 Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)  
 Common Set of Deviations (CSD -I)

The Common Set of Deviations is part of the Bid Documents

Sr No	Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document			Modified Provision		
				Milestone	From date/time	To date/time	Milestone	From date/time	To date/time
1	7	e-Tender Short Notice	Important dates	Bid document download	22/11/2020 18.00hrs	25/11/2020 10.00hrs	Bid document download	10/11/2020 18.01hrs	10/11/2020 10.00hrs
				Pre-bid meeting	17/11/2020 15.00 hrs	17/11/2020 15.00 hrs	Pre-bid meeting		17/11/2020 15.00 hrs
				Last date of Online submission	10/11/2020 18.01hrs	23/11/2020 12.00 hrs	Last date of Online submission	10/11/2020 18.01hrs	25/11/2020 12.00 hrs
2	8	Detail e-tender short Notice	Clause no 4	4.On Line E-- Tender Schedule			4.On Line E-- Tender Schedule		
				Sr no	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time	
				1.	Tender Authorization and Publishing	-----	10/11/2020 1545 hrs	10/11/2020 1800hrs	
				2.	-----	Tender Document Download	10/11/2020 1800hrs	22/11/2020 1800hrs	
				3.	-----	Bid Preparatio	10/11/2020 1801hrs	23/11/2020 1801hrs	

*dear*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Sr. No.	Section	Ref. Clause No.	Existing Provision in the Bid document		Modified Provision	
			n and Submission on line	Period of submission of queries	Pre-bid meeting at venue	Pre-bid meeting at venue
4	Pre-bid meeting	12/11/2020	1800 hrs	12/11/2020	1800 hrs	1200 hrs
5	Pre-bid meeting	17/11/2020	1500Hrs	17/11/2020	1500Hrs	17/11/2020
6	Tender Closing	23/11/2020	1400 hrs	25/11/2020	1201hrs	25/11/2020
7	Tender Closing	24/11/2020	1400 hrs	25/11/2020	1401 hrs	26/11/2020
8	Opening Envelope A - Tender Fees, EMD	24/11/2020	1401 hrs	26/11/2020	1401 hrs	01/12/2020
9	Opening Envelope B - Technical Bid	24/11/2020	1401 hrs	26/11/2020	1401 hrs	01/12/2020
10	Opening Envelope C - Financial Bid if possible	26/11/2020	1000 hrs	27/11/2020	1000 hrs	01/12/2020

Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

Sl. No.	Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision												
3	Section 1 : INSTRUCTIO NSTO BIDDER	Clause No. 3	<p>Clause 3 . Preparation Of Proposal:</p> <p>7. The bidder should upload scanned copy of PAN Card as well as VAT certificate etc. and scanned attested photocopies of all documents on above mentioned MMRDA official e-Tendering portal &amp; produce in original on request by MMRDA at any stage.</p>	<p>Clause 3 . Preparation Of Proposal:</p> <p>7. The bidder should upload scanned copy of PAN Card and <b>GST certificate</b> etc. and scanned attested photocopies of all documents on above mentioned MMRDA official e-Tendering portal &amp; produce in original on request by MMRDA at any stage.</p>												
4	ITB	Clause No. 25 Sr. No.	<p>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Minimum average financial turnover of INR 10 Crore in last three years ending 31<sup>st</sup> March 2019 in the Consultancy services as certified by CA.</td> <td>10 Average Annual Turnover : ≥ INR 10.00 but &lt; 25.00 Crore : 5 Marks ≥ INR 25.00 but &lt; 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks</td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks	2.	Minimum average financial turnover of INR 10 Crore in last three years ending 31 <sup>st</sup> March 2019 in the Consultancy services as certified by CA.	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks	<p>3. Criteria, sub-criteria, and point system for the evaluation of Full Technical Proposals</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Parameter</th> <th>Maximum Marks</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Minimum average financial turnover of INR 10 Crore in last three years ending <b>31<sup>st</sup> March 2020</b> in the Consultancy services as certified by CA.</td> <td>10 Average Annual Turnover : ≥ INR 10.00 but &lt; 25.00 Crore : 5 Marks ≥ INR 25.00 but &lt; 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks</td> </tr> </tbody> </table>	Sr. No.	Parameter	Maximum Marks	2.	Minimum average financial turnover of INR 10 Crore in last three years ending <b>31<sup>st</sup> March 2020</b> in the Consultancy services as certified by CA.	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks
Sr. No.	Parameter	Maximum Marks														
2.	Minimum average financial turnover of INR 10 Crore in last three years ending 31 <sup>st</sup> March 2019 in the Consultancy services as certified by CA.	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks														
Sr. No.	Parameter	Maximum Marks														
2.	Minimum average financial turnover of INR 10 Crore in last three years ending <b>31<sup>st</sup> March 2020</b> in the Consultancy services as certified by CA.	10 Average Annual Turnover : ≥ INR 10.00 but < 25.00 Crore : 5 Marks ≥ INR 25.00 but < 50.00 Crore : 7 Marks ≥ INR 50.00: 10 Marks														
5	ITB	Clause no 25.1	<p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>1. Evaluation of Technical Proposal: The firms failing to meet the minimum</p>	<p>25. Proposal Evaluation and Determination of Responsiveness</p> <p>1. Evaluation of Technical Proposal: The firms failing to meet the minimum</p>												

Chief Engineer  
Engineering Division  
M.M.R.D.A.



Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision
0			<p>requirement will be rejected. Only those technical proposals, which score at least 75 points out of 100, shall be considered for financial evaluation. The firms will be ranked using combined technical and financial scores, as indicated below. The evaluation committee appointed by MMRDA will carry out its evaluation applying the evaluation criteria and point system specified. Each responsive proposal will be assigned a technical score (Sr) as follows:</p>	<p>requirement will be rejected. Only those technical proposals, which score at least 70 points out of 100, shall be considered for financial evaluation. The firms will be ranked using combined technical and financial scores, as indicated below. The evaluation committee appointed by MMRDA will carry out its evaluation applying the evaluation criteria and point system specified. Each responsive proposal will be assigned a technical score (Sr) as follows:</p>
6	49	GCC	4.5	<p><b>4.5 Removal and / or replacement of personnel</b></p> <p>d) After award of contract the Client expects all of the proposed key personnel to be available during implementation of the contract. The client will not consider substitutions during contract implementation except under exceptional circumstances. For the reason other than death/ extreme medical ground (i) for total replacement up to 10% of key personnel, remuneration of that professionals shall be reduced by 10% (ii) for replacement between 10% to 50%, remuneration shall be reduced by 15% (iii) for replacement beyond 50% of the total key personnel, the Client may initiate debarment proceedings so as to debar such consultant for future projects of MMRDA</p>
			<p><b>4.5 Removal and / or replacement of personnel</b></p> <p>d) After award of contract the Client expects all of the proposed key personnel to be available during implementation of the contract. The client will not consider substitutions during contract implementation except under exceptional circumstances. For the reason other than death/ extreme medical ground (i) for total replacement up to 10% of key personnel, remuneration of that professionals shall be reduced by 5% (ii) for replacement between 10% to 50%, remuneration of that professionals shall be reduced by 10% (iii) for replacement beyond 50% of the total key personnel, remuneration of that professionals shall be reduced by 15% . In such case the Client may initiate debarment</p>	

*[Signature]*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision
82	Appendix A	1.22 After award of the contract the Employer expects all the proposed key personnel to be available during implementation of the contract. The Employer will not consider substitutions during contract implementation except, under exceptional circumstances up to a maximum of one third of the key personnel. In case of replacements the Supervision Consultant will ensure that there is a reasonable overlap between the staff to be replaced and the replacement. The replacement should be strictly with the acceptance of MMRDA.	1.22 After award of the contract the Employer expects all the proposed key personnel to be available during implementation of the contract. The Employer will consider substitutions during contract implementation as per the clause 4.5 of GCC (Amended as above) . In case of replacements the Supervision Consultant will ensure that there is a reasonable overlap between the staff to be replaced and the replacement. The replacement should be strictly with the acceptance of MMRDA.
84	Appendix A	clause 31	
8	Appendix A	clause 31	

Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

Section	Ref. Clause No.	Existing Provision in the Bid document		Modified Provision	
		Team Leader	Graduation in Civil Engineering Upper age limit 65 years	20 years	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning & execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro /ROB having structural steel superstructure of at least 40 meter span as TL in urban area.
		Team Leader	Graduation in Civil Engineering Upper age limit 65 years	20 years	Out of 20 years' experience, minimum 5 years' experience as a Team Leader (TL). Experience in planning & execution/ supervision of one completed project having minimum 1500 meter Viaduct length in urban area as TL. Experience in planning & execution/ supervision of one completed flyover/bridge/Metro /ROB having structural steel superstructure of at least 40 meter span as TL in urban area.
		Resident Engineer	Graduation in Civil Engineering Upper age limit 65 years	20 Years	Out of 20 years' experience, 5 year experience as a Resident Engineer/Project Manager. Experience in planning & execution /supervision of one completed project having minimum 1500 meter Viaduct length in urban area. Experience in planning &



*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision
		<p>one completed flyover/Metro having minimum 1500 meter Viaduct length in urban area.</p> <p>Experience in planning &amp; execution/ supervision of one completed flyover/bridge/Metro having structural steel superstructure of at least 40 meter span.</p>	<p>execution/ supervision of one completed flyover/bridge/Metro /ROB having structural steel superstructure of at least 40 meter span.</p>
		<p>Out of 15 year experience, minimum 5 years' experience as a Quality Control /Quality Assurance Engineer.</p> <p>Experience of at least 1 completed project of Elevated metro / 2 lane flyover /Bridge as flyover /Bridge costing not less than 100 Crore as a Quality Control / Quality Assurance Engineer</p>	<p>Out of 15 year experience, minimum 5 years' experience as a Quality Control /Quality Assurance Engineer.</p> <p>Experience of at least 1 completed project of Elevated metro / 2 lane flyover /Bridge as a Quality Control / Quality Assurance Engineer</p>
		<p>15 year</p> <p>Graduation in Civil Engineering Upper age limit 65 years</p>	<p>15 year</p> <p>Graduation in Civil Engineering Upper age limit 65 years</p>
		<p>Quality Control /Quality Assurance Engineer</p> <p>Contract specialist</p>	<p>Quality Control /Quality Assurance Engineer</p> <p>Contract</p>
		<p>20 year</p> <p>Graduation in Civil Engineering</p>	<p>20</p> <p>Graduation</p>
		<p>Out of 20 year experience minimum 10 years' experience as Contract Engineer / Contract</p>	<p>Out of 20 year experience</p>

*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision
Sr. Page No. 0		Specialist of project. Experience of at least 1 completed project of elevated metro /Monorail viaduct /flyover/ROB costing not less than 300 Crore as a Contract Engineer / Contract Specialist	minimum 10 years' experience as Sr. Contract Engineer / Contract Specialist/Contract expert on project. Experience of at least 1 completed project of elevated metro /Monorail viaduct /flyover / ROB as a Sr. Contract Engineer / Contract Specialist
		Upper age limit 70 years	n in Civil Engineering Upper age limit 70 years
		Safety Engineer	act specialist
		15 Year	15 Year
		Graduation in Civil Engineering OR Diploma in Civil/Safety Upper age limit 65 years	Graduation in Civil Engineering OR Diploma in Civil/Safety Upper age limit 65 years
		Minimum 10 years experience in Elevated metro viaduct/ 2 lane flyover in urban area as safety Engineer	Minimum 5 year experience in Elevated metro viaduct/ 2 lane flyover/ in urban area as safety Engineer/safety expert
		15 Year	15 Year
		Minimum 10 years in Elevated metro/ 2 lane flyover in urban area as geo-technical engineer	Minimum 10 years in Elevated metro/ 2 lane flyover /Bridge in urban area as geo-technical engineer
		Geo-Technical/ Foundation Engineer	Geo-Technical/ Foundation Engineer
<b>Support Staff</b>			

*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision												
92	Clause 4	<table border="1"> <tr> <td>SS-2 Transportation/Traffic Engineer</td> <td>15 Year</td> <td>Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.</td> </tr> <tr> <td>B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering</td> <td>Upper age limit 65 years</td> <td></td> </tr> </table>	SS-2 Transportation/Traffic Engineer	15 Year	Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.	B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering	Upper age limit 65 years		<table border="1"> <tr> <td>SS-2 Transportation/Traffic Engineer</td> <td>10 Year</td> <td>Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.</td> </tr> <tr> <td>B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering</td> <td>Upper age limit 65 years</td> <td></td> </tr> </table>	SS-2 Transportation/Traffic Engineer	10 Year	Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.	B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering	Upper age limit 65 years	
SS-2 Transportation/Traffic Engineer	15 Year	Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.													
B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering	Upper age limit 65 years														
SS-2 Transportation/Traffic Engineer	10 Year	Minimum 5 years' experience in Transportation planning, traffic management, traffic design, highway design of flyover project in urban area.													
B.E. Civil, M. Tech / ME in Transportation / Traffic Engineering	Upper age limit 65 years														
9	Appendix D fees and payment schedule	<p><b>4. Break-up of the fees payable for the different periods:</b> The total fee payable will be divided into 4 parts and paid as indicated below:</p> <table border="1"> <thead> <tr> <th>Cost of project in core</th> <th>% fees payable during different periods</th> </tr> </thead> <tbody> <tr> <td>1 Scrutiny of design and working drawings submitted by the Contractor for execution.</td> <td>15%</td> </tr> <tr> <td>2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance</td> <td>75%</td> </tr> </tbody> </table>	Cost of project in core	% fees payable during different periods	1 Scrutiny of design and working drawings submitted by the Contractor for execution.	15%	2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance	75%	<p><b>5. Break-up of the fees payable for the different periods:</b> The total fee payable will be divided into 4 parts and paid as indicated below:</p> <table border="1"> <thead> <tr> <th>Cost of project in core</th> <th>% fees payable during different periods</th> </tr> </thead> <tbody> <tr> <td>1 Scrutiny and approval of design and issuing working drawings (GFC) submitted by the Contractor for execution.</td> <td>15%</td> </tr> <tr> <td>2 Supervision in Construction</td> <td>80%</td> </tr> </tbody> </table>	Cost of project in core	% fees payable during different periods	1 Scrutiny and approval of design and issuing working drawings (GFC) submitted by the Contractor for execution.	15%	2 Supervision in Construction	80%
Cost of project in core	% fees payable during different periods														
1 Scrutiny of design and working drawings submitted by the Contractor for execution.	15%														
2 Supervision in Construction Period i.e. technical supervision, monitoring quality assurance	75%														
Cost of project in core	% fees payable during different periods														
1 Scrutiny and approval of design and issuing working drawings (GFC) submitted by the Contractor for execution.	15%														
2 Supervision in Construction	80%														

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision								
0											
		<p>and other allied services, running account bills etc.</p> <p>3 Miscellaneous activities viz. As build drawings, Final bill of Contractor &amp; Maintenance Manual, Final handing over of facility to corporation/PWD at the end of DLP.</p> <p>4 Supervision during Defects liability period.</p>	<p>Period i.e. technical supervision, monitoring quality assurance and other allied services, running account bills etc.</p> <p>3 Miscellaneous activities viz. submission of As build drawings, payment Final bill of Contractor &amp; submission of Maintenance Manual, Final handing over of facility to corporation/PWD/authority</p> <p>4 Supervision during Defects liability period.</p>								
10	94	Appendix D fees and payment schedule									
	Clause 5.0										
		<p><b>Appendix D</b></p> <p><b>5. Payments if Project is delayed:</b> If the actual completion time extends beyond the base completion and variation the payment will be made as follows</p> <p>If the actual completion time extends beyond the base completion and variation the payment will be made as follows:</p> <table border="1"> <thead> <tr> <th>Base Completion as per contract</th> <th>Variation period</th> </tr> </thead> <tbody> <tr> <td>1 Up to 9 Month</td> <td>± 1 month</td> </tr> </tbody> </table>	Base Completion as per contract	Variation period	1 Up to 9 Month	± 1 month	<p><b>Appendix D</b></p> <p><b>5. Payments if Project is delayed:</b> If the actual completion time extends beyond the base completion and variation the payment will be made as follows</p> <p>If the actual completion time extends beyond the base completion and variation the payment will be made as follows:</p> <table border="1"> <thead> <tr> <th>Base Completion as per contract</th> <th>Variation period</th> </tr> </thead> <tbody> <tr> <td>1 Up to 9 Month</td> <td>± 1 month</td> </tr> </tbody> </table>	Base Completion as per contract	Variation period	1 Up to 9 Month	± 1 month
Base Completion as per contract	Variation period										
1 Up to 9 Month	± 1 month										
Base Completion as per contract	Variation period										
1 Up to 9 Month	± 1 month										

Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

Sr. No.	Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision												
11	100	ANNEXURE II		<table border="1"> <tr> <td>2</td> <td>9 to 15 Month</td> <td>± 2 months</td> </tr> <tr> <td>3</td> <td>15 to 36 month</td> <td>± 3 months</td> </tr> </table> <p>In the event of construction extended beyond base completion + variation, the monthly payment will be subject to the ceiling as given below:</p> <p>Total Fees ( as mentioned in Appendix D ar Sr No 4.2 i.e.(75 %)</p> <p>Fees payable per month = <math>\frac{\text{Total Fees ( as mentioned in Appendix D ar Sr No 4.2 i.e.(80 \%)} \times (\text{Base completion Time limit} + \text{variation period in Month})}{\text{Base completion Time limit} + \text{variation period in Month}}</math></p> <p>The payments will be worked out in proportion to the actual manpower deployed and approved by Engineer-In Charge during period under consideration. The payment towards financial progress related fees shall be paid to the financial progress of the project including extended period (if any). For reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary.</p>	2	9 to 15 Month	± 2 months	3	15 to 36 month	± 3 months	<table border="1"> <tr> <td>2</td> <td>9 to 15 Month</td> <td>± 2 months</td> </tr> <tr> <td>3</td> <td>15 to 36 month</td> <td>± 3 months</td> </tr> </table> <p>In the event of construction extended beyond base completion + variation, the monthly payment will be subject to the ceiling as given below:</p> <p>Total Fees ( as mentioned in Appendix D ar Sr No 4.2 i.e.(80 %)</p> <p>Fees payable per month = <math>\frac{\text{Total Fees ( as mentioned in Appendix D ar Sr No 4.2 i.e.(80 \%)} \times (\text{Base completion Time limit} + \text{variation period in Month})}{\text{Base completion Time limit} + \text{variation period in Month}}</math></p> <p>The payments will be worked out in proportion to the actual manpower deployed and approved by Engineer-In Charge during period under consideration. The payment towards financial progress related fees shall be paid to the financial progress of the work till end of the project including extended period (if any). For reduction in man power deployment, proportionate fees will be deducted as per weightage basis of salary of the professionals.</p>	2	9 to 15 Month	± 2 months	3	15 to 36 month	± 3 months
2	9 to 15 Month	± 2 months															
3	15 to 36 month	± 3 months															
2	9 to 15 Month	± 2 months															
3	15 to 36 month	± 3 months															
				ANNEXURE II LIST OF SIMILAR WORKS IN HAND	ANNEXURE II Deleted												



Chief Engineer  
Engineering Division  
M.M.R.D.A.





Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

Sr. No.	Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document						Modified Provision													
				Sr. No.	Name	Rate	No of persons	No. of Man Months per person per month	Man Months & Phase	Construction	DLP	Total Man months	Amendment	Sr. No.	Name	Rate	No of persons	No. of Man Months per person per month	Man Months & Phase	Construction	DLP	Total Man months	Amendment
12	103	Annexure V	Estimate of costs	A. Key professional staff																			
104		Estimate of costs		K-1	Team Leader		1	1.00	36	0	36		K-1	Team Leader		1	1.00	36	0	36			
				K-2	Resident Engineer		1	1.00	36	2	40		K-2	Resident Engineer		1	1.00	36	2	38			
				K-3	Structural Engineer PC		1	0.50	18	0	18		K-3	Structural Engineer PC		1	0.50	18	0	18			
				K-4	Structural Engineer Steel		1	0.50	18	0	18		K-4	Structural Engineer Steel		1	0.50	18	0	18			
				K-5	Quality Control Engineer		1	1.00	36	0	36		K-5	Quality Control Engineer		1	1.00	36	0	36			

Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)



Sl. No.	Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document				Modified Provision							
	0			1	0.50	18	2	22							
K-6		Contract specialist		1	0.50	18	2	22							
K-7		Safety Engineer		1	1.00	36	0	36			1	0.50	18	2	20
K-8		Geotechnical/Foundation Engineer		1	0.50	18	0	18			1	1.00	36	0	36
				Supporting staff				Supporting staff							
SS-1		Quantity surveyor		1	1.00	36	0	36			1	1.00	36	0	36
SS-2		Transportation/Traffic Engineer		1	1.0	36	0	36			1	1.0	36	0	36
SS-3		Jr. Quantity surveyor		1	1.00	36	0	36			1	1.0	36	0	36
SS-4		Jr. Quality		1	1.00	36	0	36			1	1.00	36	0	36

*(Signature)*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

Section		Ref. Clause No.	Existing Provision in the Bid document						Modified Provision												
Sr. No.	Page No.																				
			Control Engineer																		
			SS-5 Surveyor	1	1.0	36	0	36													
			SS-6 Lab technician	2	1.00	36	0	36													
			SS-7 Field Engineer	4	1.00	36	0	40													
			Field Engineer	1				2													
			SS-8 Utility Engineer	1	1.0	36	0	36													
			SS-9 Expert in social development (R&R)	1	1.0	36	0														
			Utility Surveyor	1	1.00	36	0	36													
			Jr. Quality Controller Engineer	1	1.00	36	0	36													
			SS-5 Surveyor	1	1.0	36	0	36													
			SS-6 Lab technician	2	1.00	36	0	36													
			SS-7 Field Engineer	4	1.00	36	0	40													
			Field Engineer	1				2													
			SS-8 Utility Engineer	1	1.0	36	0	36													
			SS-9 Expert in social development (R&R)	1	1.0	36	0														
			Utility Surveyor	1	1.00	36	0	36													
			Jr. Quality Controller Engineer	1	1.00	36	0	36													
			SS-5 Surveyor	1	1.0	36	0	36													
			SS-6 Lab technician	2	1.00	36	0	36													
			SS-7 Field Engineer	4	1.00	36	0	40													
			Field Engineer	1				2													
			SS-8 Utility Engineer	1	1.0	36	0	36													
			SS-9 Expert in social development (R&R)	1	1.0	36	0														
			Utility Surveyor	1	1.00	36	0	36													
			Jr. Quality Controller Engineer	1	1.00	36	0	36													
			SS-5 Surveyor	1	1.0	36	0	36													
			SS-6 Lab technician	2	1.00	36	0	36													
			SS-7 Field Engineer	4	1.00	36	0	40													
			Field Engineer	1				2													
			SS-8 Utility Engineer	1	1.0	36	0	36													
			SS-9 Expert in social development (R&R)	1	1.0	36	0														



Chief Engineer  
Engineering Division  
M.M.R.D.A.

Name of work: PROVIDING PROJECT MANAGEMENT CONSULTANCY SERVICES FOR DESIGN AND CONSTRUCTION OF SEWRI TO WORLI ELEVATED CONNECTOR (Third call)

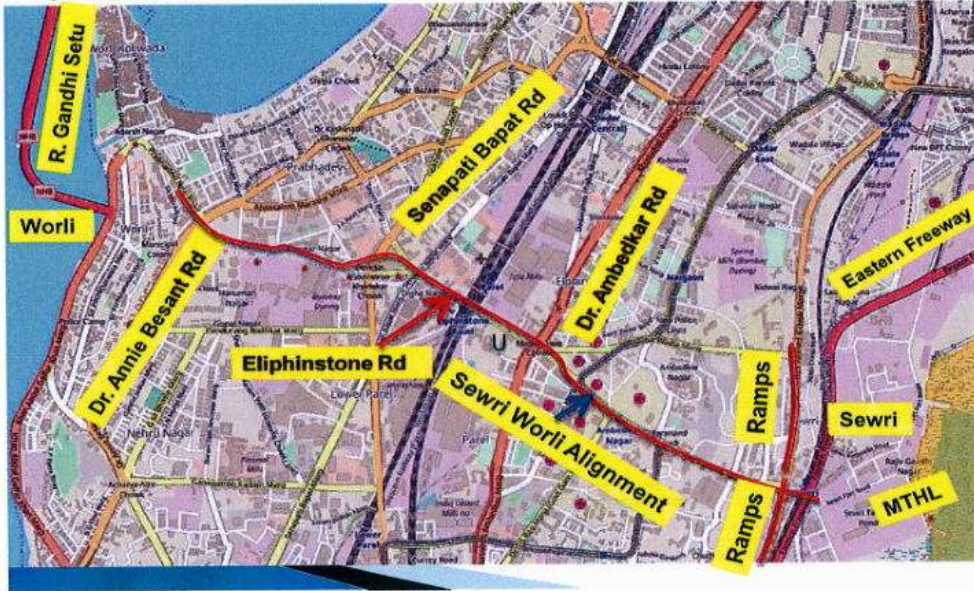
Sr. Page No.	Section	Ref. Clause No.	Existing Provision in the Bid document	Modified Provision
				SS_9 Expe rt in social devel opme nt (R&R ) 1 1.0 36 0 36



*[Signature]*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

INDEX PLAN

ALIGNMENT OF PROPOSED SEWRI- WORLI CONNECTOR



*(Signature)*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

---

**Appendix G: Letter of Intent**

Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)



**MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY**  
Bandra-Kurla Complex, Bandra (East), Mumbai - 4000 51.  
Tel: 26590001/04. Fax: 91-022-26594179  
Website: <http://www.mmrda.maharashtra.gov.in>

**e-Tender Short Notice**

Mumbai Metropolitan Region Development Authority (MMRDA) invites bids from eligible Bidders through e-Tendering. e-Tender details are as under.

Division	Engineering		
Name of work	Providing Project Management Consultancy Services for the Work of Design and Construction of Sewri to Worli Elevated Connector (Third call)		
Contact details	Chief Engineer, Engineering Division, MMRDA Tel: 022 26594076 Fax: 022 26594179 Email: <a href="mailto:chiefengineer1@mailmmrda.maharashtra.gov.in">chiefengineer1@mailmmrda.maharashtra.gov.in</a> e-tenderportal: <a href="https://etendermmrda.maharashtra.gov.in">https://etendermmrda.maharashtra.gov.in</a>		
Important dates	<b>Milestone</b>	<b>From date/time</b>	<b>To date/time</b>
	Bid document download	10/11/2020 18.01hrs	22/11/2020 18.00hrs
	Pre-bid meeting		17/11/2020 15.00 hrs
	Last date of Online submission	10/11/2020 18.01hrs	23/11/2020 12.00 hrs

The e-Tender can be downloaded from <https://etendermmrda.maharashtra.gov.in>. In case of any queries, Bidders may contact MMRDA's e-tendering service desk at <http://etendersupport@mailmmrda.maharashtra.gov.in> on any working day from 10 AM to 5.30 PM (Phone No. 022-26597445).

Date: 10.11.2020  
Place : Mumbai

(Dr. D.T.Thube)  
Chief Engineer, MMRDA



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)



एमएमआरडीए  
MMRDA

Mumbai Metropolitan Region Development Authority

2<sup>nd</sup> floor, M.M.R.D.A. Office Building, Bandra-Kurla Complex,  
C-14 & 15, E Block Bandra (East),  
Mumbai - 400 051

## DETAILED TENDER NOTICE AND GUIDELINES FOR SUBMISSION OF e-TENDER

### DETAILED e-TENDER SHORT NOTICE

MMRDA e-Tendering Portal: <https://etendermmrda.maharashtra.gov.in>

Digitally Signed & unconditional online Tenders are invited by the Office of the Chief Engineer, Mumbai Metropolitan Region Development Authority, Bandra (East), Mumbai-400 051, from Consultants fulfilling conditions as under:

#### 1. Details of work

Name of Work	Tendered cost of Construction Work	Cost of Blank Tender Form (Per Each)	Earnest Money Deposit (In Rs.)	Performance security	Contract Period
Providing Project Management Consultancy Services for the work of Design and Construction of Sewri to Worli Elevated Connector( Third call)	1051.86 Crore	5,600/- (Including GST)	10,51,860/-	5 % of accepted contract value.	36 Months (including monsoon) plus DLP period 60 month

2. The tenders will be received online on above mentioned MMRDA official E-Tendering portal and will be opened by Chief Engineer on scheduled date and time.

#### 3. Online E-Tender Schedule

Sr. No.	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time
1.	Tender Authorization and Publishing	-----	10/11/2020 1545 hrs	10/11/2020 1800hrs
2.		Tender Document Download	10/11/2020 1800hrs	22/11/2020 1800hrs
3.		Bid Preparation and Submission on line	10/11/2020 1801hrs	23/11/2020 1200 hrs



*boof*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

Sr. No.	Tender Schedule	Bidder Schedule	Start Date & Time	End Date & Time
4	Pre-bid meeting	Period of submission of queries	12/11/2020 1800 hrs	17/11/2020 1500Hrs
5		Pre-bid meeting at venue		17/11/2020 1500 hrs
6	Tender Closing	-----	23/11/2020 1201hrs	23/11/2020 1400 hrs
7	-----	Online Control Transfer of Bid	23/11/2020 1401 hrs	24/11/2020 1400 hrs
8	Opening Envelope A - Tender Fees, EMD	-----	24/11/2020 1401 hrs	28/11/2020 1800 hrs
9	Opening Envelope B - Technical Bid	-----	24/11/2020 1401 hrs	28/11/2020 1800 hrs
10	Opening Envelope C - Financial Bid if possible	-----	26/11/2020 1000 hrs	28/11/2020 1800 hrs

4. Bidders should have valid class 2 or 3 Digital Signature Certificate (DSC) having both Signing and Encryption Certificates obtained from any Certifying Authorities empanelled by Controller of Certifying Authorities India. In case of requirement of DSC, Bidders should go to <https://etendermmrda.maharashtra.gov.in/filesmmrda/misc/Digital%20Certificate.rar> and follow the procedure mentioned in the document procedure for Digital Certificate. Bidders who are participating in e-tendering for the first time shall have to obtain User ID & password from the above mentioned portal.
5. Tender Document and Supporting can be downloaded for reference purpose from the e-Tendering Portal of MMRDA during the period mentioned in the tender notice. Interested Bidders have to make online payment of Rs. 5,600/- (Rupees Five Thousand Six Hundred only) inclusive of GST as Tender Processing Fee (non-refundable) using online payment gateway during bid preparation using Debit Card/Credit Card/Net-Banking. Tender Fee receipt will be system generated during bid preparation.
6. Tender Fee receipt must be uploaded during bid preparation by the bidder.
7. The Competent Authority reserves the right to reject any or all of the tender offers, without assigning any reasons thereof.
8. The bids shall be received online on above mentioned MMRDA's official e-Tendering portal.
9. Validity period of the offer of the bidder will be **120 days** from the submission date of the e-tender.
10. The Successful bidder will have to submit the rate analysis of all major items, if called for.
11. A statement showing names of partners, Directors, etc. of the firm with complete address of each should be uploaded to above mentioned MMRDA official e-Tendering portal and authorized person on the behalf of firm who will sign e-tender using Digital Signature Certificate.



*baul*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

12. The acceptance of bid will be intimated by email or otherwise by the Authority Competent to accept the tender or by the higher Authority of MMRDA, to the contractor, which shall be deemed to be an intimation of the tender given by the Authority Competent to accept the tender.
13. The Successful bidder shall be responsible for executing, completing the work as per specifications.
14. The successful Bidder shall have to submit **signed copy of tender manually** to the Department before signing the Agreement.
15. MMRDA reserves the right to verify financial transaction of contractor in his Bank / Financial Institutions. Contractor should give Authority to that effect along with his accounts number and Bank/ Financial institution name & address. Any changes / modification may be communicated to MMRDA immediately.
16. The bidder should visit the site prior to submission of tender and ascertain the local site condition, working restrictions, constraints, conditions in tender document regarding necessary approvals, NOC required for the work from the local Authorities and shall quote the offer inclusive of all such expenses likely to be incurred while execution of the work. No claim or compensation for any extra payments incurred by the bidders towards the approvals/ NOC's/ permissions will be entertained by MMRDA, which shall be noted.

#### E-Tendering Guidelines

1. Bidders should do Online Control Transfer of Bid as per Schedule given in Tender Document any bidder failing to complete this Step will not be considered for Bid Opening.
2. Bidders who are participating in e-tendering for the first time will have to register and obtain User ID & Password from the above mentioned portal.
3. In case of any queries, Bidders may contact MMRDA's e-tendering service desk at [etendersupport@mailmmrda.maharashtra.gov.in](mailto:etendersupport@mailmmrda.maharashtra.gov.in) on any working day from 10am to 5.30pm.(Phone No. 022-26597445).
4. The tenders shall be received online on above mentioned MMRDA official E-Tendering portal and opened by the Chief Engineer on scheduled date and time.
5. If there is any amendment in the tender, the same shall be published on following MMRDA's official e-Tender portals / website :
6. MMRDA e-Tender Portal: <https://etendermmrda.maharashtra.gov.in>
7. MMRDA Website: <https://mmrda.maharashtra.gov.in>
8. The detailed e -Tender notice along with the subsequent corrigendum, addendum etc. shall form part of the tender document.
9. The acceptance of tender will be intimated by email or otherwise by the authority competent to accept the tender or by the higher Authority of MMRDA, to the contractor, which shall be deemed to be an intimation of the tender given by the Authority Competent to accept the tender.



10. Bid shall be submitted online on the e-tendering portal in 'three electronic envelopes system' within prescribed schedule.

1. e-Envelope 'A'(Prequalification Criteria if any): Bidder should upload scanned copies of Payment Receipt
2. e-Envelope 'B' (Technical bid):  
Bidder shall upload scanned copies of Technical Document as per RFP/Bid document.
3. e-Envelope 'C' (Financial bid):  
Bidder shall quote his offer on Lump Sum basis at the prescribed space in e-Envelope C.
  - i) The amount quoted by the Bidder shall be calculated by the system.
  - ii) Upload Quotation in company's Letter head under Price bid Cover Letter option

**11. Payment Procedure for Tender Fee and EMD**

Tender Document and Supporting can be downloaded for reference purpose from the e-Tendering Portal of MMRDA during the period mentioned in the tender notice. Interested Bidders have to make online payment of Tender Fee using online payment gateway during bid preparation i.e. Debit Card/Credit Card/Net-Banking. Tender Fee receipt can be system generated during bid preparation by the Bidder.

**12. Earnest Money Deposit:**

**EMD can be paid by using two Modes of Payment:**

Online payment gateway (i.e. Debit Card/Credit Card/Net-Banking.) RTGS / NEFT mode using the System Generated Unique Challan (Account No for EMD transaction for this particular Tender is mentioned in the Challan)

**Payment procedure for NEFT/RTGS**

EMD Payment as mentioned above has to be made through RTGS / NEFT mode using the System Generated Challan. Bidders should ensure that the payment of the EMD is made at least 5 working days prior to the last date of Bid Preparation and Submission of the Tender Schedule to have seamless submission.

Bidders need to upload scanned copy of EMD paid receipt during bid preparation.

Bidders failing to complete the payment of EMD using the above mentioned process of RTGS / NEFT or Online payment gateway after downloading the system generated challan will not be able to submit their bids.

**13. EMD Refund:**

Bidders should mention the beneficiary details for EMD refund in the Earnest Money Deposit Form for fields marked as details required for Refund. MMRDA or e-Tendering Service Provider will not be liable for delays caused in EMD refund due to incorrect beneficiary details.

The earnest money deposit of unsuccessful bidders will be refunded through RTGS, NEFT mode only after finalization of the tender for which the above refund details are required.



Bidders should also upload scanned copy of cancelled cheque along with refund letter for refund of their EMD payment. In case of successful bidder, amount of the earnest money deposit may be transferred towards part of the security deposit to be paid after the award of the work, if he intends to do so in writing.

Bidders failing to complete the payment of EMD using the above mentioned process of RTGS / NEFT after downloading the system generated challans will not be able to submit their bids.

**Note:** Kindly note that transfer of funds to MMRDA's account through NEFT / RTGS mode, from the Bidders' ICICI accounts is currently not possible. In case of funds transfer through NEFT / RTGS, Bidders are requested to transfer from any other bank (excluding ICICI Bank).

EMD Account should remain active until tender is awarded.

EMD Refund will happen only after Awarding or Cancellation of tenders.

#### 14. MMRDA E-Tendering Bidder's Process, Basic Requirement and Tutorial Links:

Stage1: Bidder Registration

Stage2: Bid Document Download (Tender Document Downloaded)

Stage3: Bid Preparation and Submission (Bid Status: Bid Hash Prepared)

Stage4: Online Control Transfer (Bid Status: Bid Re-encrypted)

MMRDA e-Tender Basic Requirement

Latest Version of Java Run Time Environment (JRE)

PDF Reader

Use Browser Mozilla Firefox for best compatibility.

Always Allow pop-ups and Java Plug-in for MMRDA e-tendering site

Windows 7 or latest

Bidders are requested to read Tender Document Carefully.

Digital Certificate with both Signing Certificate & Encryption Certificate.

Download Any desk (Free Software) for Monitoring / Screen Sharing for assistance purpose.

**Kindly use following link for Tutorials:**

**Bidder Registration Process:**

<https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/1%20Bidders%20Registration.pdf>

**Bid Document Download:**

<https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/2%20Bid%20Document%20Download.pdf>

**Bid Preparation & Submission:**

<https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/3%20Bid%20Preparation%20&%20Submission.pdf>

**Online Control Transfer**

<https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/4%20Online%20Control%20Transfer.pdf>

**Install NSEU Utility**




Providing Project Management Consultancy Services for  
Design and Construction of Sewri to Worli Elevated Connector(Third call)

---

<https://etendermmrda.maharashtra.gov.in/files/mmrda/misc/Utility%20and%20Java%20Installation%20for%20DSC.pdf>



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

---

**Appendix G: Letter of Acceptance**

No.MMRDA/ED/SWEC/PMC/STUP/LOA/0039/2021

Engineering Division  
 Date: 18<sup>th</sup> February 2021

To,  
**Authorised Signatory**  
**M/s STUP Consultant Pvt Ltd.**  
 1004 & 5 Raheja Chamber  
 213,Nariman Point  
 Mumbai -400021.

**Letter of Acceptance**

**Sub :-** Providing Project Management Consultancy Services for the Work of Design and Construction of Sewri to Worli Elevated Connector

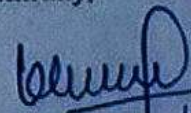
**Ref :-** 1. MMRDA E-tender notice dated 10.11.2020  
 2. Your financial bid for the consultancy opened on 29<sup>th</sup> December 2020.  
 3. Your letter No Com/201/316/SD:KPT/2279 dtd 31<sup>st</sup> December 2020 submitting justification.

Sir,

1. This has reference to your bid submitted for "Providing Project Management Consultancy Services for the Work of Design and Construction of Sewri to Worli Elevated Connector". Your financial offer submitted in the said bid amounting to **Rs.11,77,23,020/- (Rupees Eleven Crore Seventy Seven lakhs Twenty Three Thousand Twenty only)** excluding GST is here by accepted.
2. Pursuant to clause No.32 (Instruction to Bidders) and detail Tender notice, it is requested to furnish performance security in the form of Bank Guarantee to be drawn on any Nationalized or scheduled bank branch located in Mumbai only amounting to **Rs.58,86,151/- (Rupees Fifty Eight lakhs Eighty Six Thousand One Hundred Fifty One only)**, initially valid up to 36 months, within 15 days from the date of issue of this letter. Before expiry of the said Bank Guarantee, it shall be extended for further period till 28 days beyond completion of Defects Liability Period (DLP).
3. This letter of acceptance is issued subject to all the relevant provisions in the contract. The receipt of this letter shall be acknowledged and sent to this office for record.

Thanking you,

Yours faithfully,

  
 (Dr. D. T. Thube)  
 Chief Engineer, MMRDA,

18/02/2021

**Mumbai Metropolitan Region Development Authority**

Bandra-Kurla Complex, Bandra East, Mumbai 400 051

T +91 22 2659 1234 EPABX +91 22 2659 0001 / 4000 F +91 22 2659 1112 / 1264

<https://mmrda.maharashtra.gov.in>





No. MMRDA/ED/SWEC/STUP-PMC/PS/54/2021

Engineering Division  
Date: 2<sup>nd</sup> March 2021

To,  
**Authorised Signatory**  
**M/s STUP Consultant (P) Ltd.**  
1004 & 5 Raheja Chamber  
213, Nariman Point, Mumbai -400021

**Sub:** Providing Project Management Consultancy Services for the Work of Design and Construction of Sewri to Worli Elevated Connector (MMRDA/ENG 1/2247 dated 10.11.2020)

- **Regarding reduction in Performance Security & Draft of PBG.**

- Ref**
1. MMRDA Letter No. MMRDA/ED/SWEC/PMC/STUP/LOA/ 0039 /2021 dated 18<sup>th</sup> February 2021 for LOA
  2. Office Memorandum no.F.9/4/2020-PPD dated 12.11.2020 by Govt. of India, Ministry of Finance, Department of Expenditure, Procurement Policy Division
  3. M/s. STUP consultant Pvt. Ltd. letter no. COM/201/336/SD:KPT /2788 dated 22<sup>nd</sup> February 2021.

Sir,

1. MMRDA vide letter referred at Sr.No.1 has issued Letter of Acceptance to you for your lump sum offer amounting to Rs11,77,23,020/- (Rs. Eleven Crore Seventy Seven lakhs Twenty Three Thousand Twenty only) excluding GST & requested to submit the performance security @ 5% of accepted contract cost i.e. amounting to Rs. 58,86,151/- (Rupees Fifty Eight Lakh Eighty Six Thousand One Hundred Fifty One only)
2. As per your request received vide letter referred at Sr.No. 3 above & the Office Memorandum issued by Govt. of India, Ministry of Finance, dated 12.11.2020 referred above, your request to reduce the performance security from 5 % to 3% of your financial quote is hereby accepted. The draft of bank Guarantee towards performance security has been approved.
3. In view of above, in pursuant to clause No.32 (Instruction to Bidders) and detail Tender notice, it is requested to furnish performance security amounting to Rs. 35,31,691/- (Rupees Thirty Five lakhs Thirty One Thousand Six Hundred Ninety One only) in the form of Bank Guarantee initially valid upto the 36 months to be drawn on any Nationalized or scheduled bank branch located in Mumbai only within 15 days from the date of issue of this letter.



**Mumbai Metropolitan Region Development Authority**

Bandra-Kurla Complex, Bandra East, Mumbai 400 051  
+91 22 2659 1234 EPABX +91 22 2659 0001 / 4000 F +91 22 2659 1112 / 1264  
<https://mmrda.maharashtra.gov.in>

*beul*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.



4. Before expiry of the same, it shall be extended further till the period 28 days beyond completion of Defects Liability Period (DLP).

Thanking you,

Yours faithfully,

  
(Dr. D.T.Thube)  
Chief Engineer, MMRDA



  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

**BANK GUARANTEE BOND FOR PERFORMANCE SECURITY**

**Name of work: Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector.**

- 1 In Consideration of the Mumbai Metropolitan Region Development Authority having its office at Bandra - Kurla Complex, Bandra (East), Mumbai-400 051 (hereinafter called "the MMRDA") having agreed to exempt STUP Consultants Pvt. Ltd. (hereinafter called "the said contractor(s)" from the demand, under the terms and conditions of the Letter of Acceptance no MMRDA/ED/SWEC/PMC/STUP/LOA/0039/2021 dated 18<sup>th</sup> February 2021, issued by the Chief Engineer, Engineering Division, MMRDA to STUP Consultants Pvt. Ltd. for the consultancy services for "Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector" (hereinafter called "the said Agreement"), of security deposit for the due fulfillment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only)**.
- We, \_\_\_\_\_ (hereinafter referred to as "the Bank") at the request of STUP Consultants Pvt. Ltd. (Contractor(s) do hereby undertake to pay to the MMRDA an amount not exceeding **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only)** against any loss or damage caused to or suffered or would be caused to or suffered by the MMRDA by reasons of any breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We, \_\_\_\_\_ (indicate name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the MMRDA stating that the amount claimed is due by way of loss or damages to or would be caused to or suffered by the MMRDA by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement or by reasons of the contractor(s) failure or repudiation to perform the said Agreement. Any such demand made on



  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

---

**Appendix G: Power of Attorney**



महाराष्ट्र MAHARASHTRA

2020

XF 224301



प्रधान मुद्रांक कार्यालय, मुंबई  
 प.मु.वि.क्र. ८०००००९  
 15 SEP 2020  
 सक्षम अधिकारी

श्री. दि. क. गवई

**GENERAL POWER OF ATTORNEY**

TO ALL WHOM THESE PRESENTS SHALL COME, I, A.C. ALIMCHANDANI, the Executant of this Power of Attorney and the Chairman of M/S. STUP CONSULTANTS PRIVATE LIMITED, a Company incorporated under the Companies Act, 1956 vide Corporate Identification Number: U74999MH1963PTC012649 and having its Registered Office at 1004-05, Raheja Chambers, 213, Nariman Point, Mumbai - 400 021, send greetings:

WHEREAS the Company is engaged in the business of offering Engineering and Architectural Consultancy Services, and for and on behalf of the Company, I am required to execute empanelment/consultancy offers/consultancy bid related documents, consultancy contracts, etc. (hereinafter called "such business contracts") with various government departments, public sector and private organizations from time to time;

AND WHEREAS under Articles of Association of the Company and by a Resolution of the Board of Directors, certain powers are vested in me including the power to appoint any person/s to be the Attorney/ies of the Company and on my behalf;



*Handwritten signature*

*Handwritten signature*






*Handwritten signature*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

AND WHEREAS it has become necessary and for exigencies of business it is convenient that in exercise of such powers, I should appoint fit and proper person/s to sign and execute such business contracts, as true and lawful Attorney/ies for me and in the Company's name.

By these presents, I appoint, nominate and constitute **Mr. Sunil Dutt**, son of Mr. Ganesh Dutt Sharma, presently residing at RH-55, Sector 7, Shivkripa Building, Koparkhairane, Navi Mumbai- 400 709, presently employed with us and holding the position of **Joint Vice President (Business Development)** of the Company, to be the true and lawful Attorney for and on behalf of me and in the Company's name to enter into all such negotiations and execute, sign and admit execution of such business contracts and execute and do all such acts, deeds, and things in the name and on behalf of the Company as he may consider expedient for or in relation to any of the matters aforesaid or otherwise for the purposes of "such business contracts" of the Company.


I hereby undertake to ratify and confirm all lawful acts, deeds, things and matters that the said Attorney shall do by virtue of the Power of Attorney hereby granted. This Power of Attorney shall be effective from the date of its execution and will remain valid for one year from the said date or till it is revoked earlier in writing by the undersigned.

IN WITNESS WHEREOF, WE, M/S. STUP CONSULTANTS PRIVATE LIMITED, REPRESENTED BY ITS CHAIRMAN, MR. A.C. ALIMCHANDANI, THE ABOVE NAMED EXECUTANT, HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS 06<sup>th</sup> DAY OF NOVEMBER, 2020.

<p>FOR STUP CONSULTANTS PVT. LTD</p>  <p>A. C. ALIMCHANDANI CHAIRMAN STUP CONSULTANTS PVT. LTD 1004-5, RAHEJA CHAMBERS 213, NARIMAN POINT MUMBAI - 400 021</p>	<p>ACCEPTED</p>  <p>SUNIL DUTT JOINT VICE PRESIDENT (BUSINESS DEVELOPMENT) RH-55, SECTOR 7, SHIVKRIPA BUILDING KOPARKHAIRANE NAVI MUMBAI- 400 709</p> 
---	---

BEFORE ME

ATTESTED BY ME

  
Mrs. VEENA FRAVIN WAGLE  
B.Com, LL.B,  
ADVOCATE & NOTARY  
GOVT. OF INDIA

06 NOV 2020




---

**Bank Guarantee for Performance Security**



STATE BANK OF INDIA Tel No. : 022-23024300/01/02/03  
 TRADE FINANCE Fax No. : 022-23024351/52/53/54  
 CPC, MUMBAI SWIFT No. : SBININBB582  
 MAFATLAL CHAMBERS, 1st PIN Code : 400 013  
 FLR, C D WING  
 NMJOSHI MARG, LOWER  
 PAREL, MUMBAI

09-03-2021

To,  
 MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY  
 BANDRA KURLA COMPLEX  
 BANDRA EAST  
 MUMBAI 400051

DEAR SIR(S),

Guarantee Number : 0505021BG0000243  
 Date of Issue : 09-03-2021  
 Guarantee Amount : INR 3,531,691.00  
 Date of Expiry : 01-03-2024  
 Date of Claim : 01-03-2025  
 Applicant Name : STUP CONSULTANTS PVT LTD

We confirm having Issued / Extended the captioned Bank Guarantee in your favour on behalf of our above named Constituent and the same signed by the officers of the Bank.

YOURS FAITHFULLY,

*Varun Priyadarshi*  
 AUTHORIZED SIGNATORY - 1

**VARUN PRIYADARSHI**  
 S.S. NO. P10989



\*AUTHORIZED SIGNATORY - 2

\*2nd signatory required, if BG is for Rs. 50000/- and above)

*R S Panchal*  
 R S PANCHAL  
 P - 12999

The beneficiaries are advised in their own interest to verify the genuineness of the Guarantee with the BG issuing Branch and also verify that Bank Guarantee for Rs.50000/- (Rupees Fifty Thousand Only) & above is signed by two authorized officials of the Bank.

PLEASE CONTACT BRANCH FOR eTradeSBI FACILITY-INTERNET ACCESS TO TRADE FINANCE

Mar 9, 2021 6:19 PM



*Chief Engineer*  
 Chief Engineer  
 Engineering Division  
 M.M.R.D.A.

महाराष्ट्र शासन  
**GOVERNMENT OF MAHARASHTRA**  
**ई-सुरक्षित बँक व कोषागार पावती**  
**e-SECURED BANK & TREASURY RECEIPT (e-SBTR)**

16113964138307



Bank/Branch :	SBI / 11688-SME BACKBAY RECLAMATION BRANCH	Stationery No :	XXXXXXXXXXXX8307
Pmt Txn id :	87279	Print DtTime :	08-03-202102:23:27
Pmt DtTime :	08-03-202102:22:35	Office Name :	IGR182-BOM1_MUMBAI CITY 1 SUB REGISTRAR
District :	7101/MUMBAI	GRAS GRN :	MH012829274202021S
ChallanIdNo :	00211688080321051727	GRN Date :	08-03-202102:22:36
StDuty Schm :	0030045501		
StDuty Amt :	Rs 500/- (Rs Five Zero Zero Only)		
RgnFee Schm :			
RgnFee Amt :			
Article :	5(h) (B) (VI) / AGGEMENT IF NOT OTHERWISE PROVIDED FOR		
Prop Mvblty :	Not Applicable	Consideration :	Rs 3531691/-
Prop Descr :	1004 05, RAHEJA CHAMBERS, NARIMAN POINT MUMBAI, 400021		
Duty Payer :	PAN-AABCS1945E, STUP CONSULTANTS PVT LTD		
Other Party :	PAN-AAACS8577K, STATE BANK OF INDIA		

Bank official-1 Name &amp; Signature

This Guarantee has been processed  
 By State Bank of India Trade Finance  
 CPC, 1st Floor, Mafatlal Chambers,  
 Lower Parel (E) Mumbai 400 013  
 For State Bank of India SME Backbay  
 Reclamation Branch, Nariman Point  
 Mumbai - 400 021

Bank official-2 Name &amp; Signature

This eSBTR is an integral part of Bank Guarantee  
 No: 0505021B90000243 issued on 09/03/2021 for  
 Rs. 3531691/-



VARUN PRIYADARSHI  
 S.S. NO. P10989



R S PANCHAL  
 R S PANCHAL  
 P - 12999

<https://sbi11688svr.bsc/Modules/STGT/MAHARASHTRA/frmEsbtrRePrint.aspx>

3/8/2021

Chief Engineer  
 Engineering Division  
 M M R D A.



This Guarantee has been provided  
By State Bank of India Trade Finance  
CPC, 1st Floor, Mafatlal Chambers,  
Lower Parel (E) Mumbai 400 013  
For State Bank of India SME Backbay  
Reclamation Branch, Nariman Point  
Mumbai - 400 021

### BANK GUARANTEE BOND FOR PERFORMANCE SECURITY

**Name of work: Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector.**

1. In Consideration of the Mumbai Metropolitan Region Development Authority having its office at Bandra - Kurla Complex, Bandra (East), Mumbai-400 051 (hereinafter called "the MMRDA") having agreed to exempt **STUP Consultants Pvt. Ltd.** (hereinafter called "the said contractor(s)") from the demand, under the terms and conditions of the Letter of Intent no. MMRDA/ED/SWEC/PMC/STUP/LOA/0039/2021 dated 18<sup>th</sup> February 2021, made between the Chief Engineer, Engineer Division, MMRDA and STUP Consultants Pvt. Ltd. for the consultancy services for "Providing Project Management Consultancy Services for Design and Construction of Sewri to Worli Elevated Connector" (hereinafter called "the said Agreement"), of security deposit for the due fulfillment by the said contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only)**.

We, **State Bank of India**, at TFCPC, 1st Floor, C&D Wing Mafatlal Chambers, Lower Parel, Mumbai – 400 013 having its Headquarters office at State Bank Bhavan, Nariman Point, Mumbai 400 021, (hereinafter referred to as "the Bank") at the request of STUP Consultants Pvt. Ltd. (Contractor(s)) do hereby undertake to pay to the MMRDA an amount not exceeding **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only)** against any loss or damage caused to or suffered or would be caused to or suffered by the MMRDA by reasons of any breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, **State Bank of India**, (indicate name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the MMRDA stating that the amount claimed is due by way of loss or damages to or would be caused to or suffered by the MMRDA by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement or by reasons of the contractor(s) failure or repudiation to perform the said Agreement. Any



**VARUN PRIYADARSHI**  
S.S. NO. P10989



*Panchal*

**R S PANCHAL**  
P-12399

*[Signature]*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.

This Guarantee has been processed  
By State Bank of India Trade Finance  
CPC, 1st Floor, Mafatlal Chambers,  
Lower Parel (E) Mumbai 400 013  
For State Bank of India SME Backbay  
Reclamation Branch, Nariman Point  
Mumbai - 400 021

such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only).**

3. We undertake to pay the MMRDA Bank Guarantee Amount of Rs. 35,31,691/- so demanded notwithstanding any dispute or disputes raised by the contractor(s). The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We, **State Bank of India**, further agree that the guarantee herein contained shall remain in full force till 01.03.2024 and it shall continue to be enforceable till all the dues of the MMRDA under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the Chief Engineer, Engineering Division of MMRDA certified that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and made on us in writing on or before the **claim date i.e 01.03.2025**, we shall be discharged from all liability under this guarantee thereafter.
5. We, **State Bank of India**, further agree with the MMRDA that the MMRDA shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time for from time to time any of the powers exercisable by the MMRDA against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the MMRDA or any indulgence by



*Varun Priyadarshi*  
**VARUN PRIYADARSHI**  
**S.S. NO. P10989**



*R S Panchal*  
**R S PANCHAL**  
**P - 12990**

*[Signature]*  
**Chief Engineer**  
**Engineering Division**  
**M.M.R.D.A.**

This Guarantee has been processed  
By State Bank of India Trade Finance  
CPC, 1st Floor, Mafatal Chambers,  
Lower Panel (E) Mumbai 400 013  
For State Bank of India SME Backbay  
Reclamation Branch, Nariman Point  
Mumbai - 400 021

the MMRDA to the said Contractor(s) on any such matter or this whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s) / Suppliers(s).
7. We, **State Bank of India**, lastly undertake not to revoke this guarantee during its currency.

"Notwithstanding anything contrary contained in any law for the time being in force or banking practice, this guarantee shall not be assignable or transferable by the beneficiary. Notice or invocation by any person such as assignee, transferee or agent of beneficiary shall not be entertained by the Bank. Any invocation of guarantee can be made only by the beneficiary directly."

Notwithstanding anything contained herein.

1. Our liability under this Bank Guarantee is limited to **Rs. 35,31,691/- (Rupees Thirty Five Lakhs Thirty One Thousand Six Hundred & Ninety One only)**.
2. This Bank Guarantee shall be valid up to **01.03.2024**.
- 1) The beneficiary's right as well the Bank's liability under this guarantee shall stand extinguished unless a written claim or demand is made under this guarantee on or before **01.03.2025**.

*Varun Priyadarshi*  
VARUN PRIYADARSHI  
S.S. NO. P10989



*Panchal*  
राज्य सागर पंचाल  
R S PANCHAL  
P - 12999



*Chief Engineer*  
Chief Engineer  
Engineering Division  
M.M.R.D.A.