

MAHARASHTRA METRO RAIL CORPORATION LIMITED

NAGPUR METRO RAIL PROJECT

Date: 09.06.2023

Corrigendum-I

Name of the Work: Detailed Design Consultancy Services for

(i) 7 (Seven) Elevated Stations viz. Hingna Mountview, Rajiv Nagar, Wanadongri, APMC, Raipur, Hingna Bus Station and Hingna, excluding Viaduct in station portions on Reach-3A of NMRP Phase-II.

(ii) 3 (Three) Elevated Stations viz. Pardi (Double Decker), Kapsi Khurd and Transport Nagar, excluding Viaduct in station portions on Reach- 4A of NMRP Phase-II.

TENDER No : N2-015/DDC-02/2023

S.No.	Section, Clause & Page no.	Existing Clause	Revised Clause
1	Clause 4.2 (a) of Section-III of Part-I (page-87 to 88)	(a) Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract. OR (b) Should have completed similar consultancy work of at least Ten (10) Elevated and/or Underground Metro Rail Stations in two different Contracts collectively. OR (c) Should have completed similar consultancy work of at least Twelve (12) Elevated and/or Underground Metro Rail	(a) <i>Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground and/or At-Grade Metro Rail Stations in one Contract.</i> OR (b) <i>Should have completed similar consultancy work of at least Ten (10) Elevated and/or Underground and/or At-Grade Metro Rail Stations in two different Contracts collectively.</i> OR (c) <i>Should have completed similar consultancy work of at least Twelve (12) Elevated and/or Underground and/or At-</i>

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		Stations in three different Contracts collectively.	<i>Grade Metro Rail Stations in three different Contracts collectively.</i>
2	Clause 1.1.2 of Section-VII of Part-2 (Page 166)	Consultancy services for Preparation of Detailed design for Stations including Architecture, Civil and Structure, E&M services, Fire Fighting/Suppression and Protection, Plumbing, Sewerage, Water supply services, Building management services (BMS), Acoustics, Solar panel, and any other service/item required for completion of the work of Metro Rail Stations exclusive of Viaduct portions and guideway for the Metro system, and may also include certification of green building IGBC, for the following station Buildings for Phase-2, Elevated cum at grade corridor:	<i>Consultancy services for Preparation of Detailed design for Stations including Architecture, Civil and Structure, E&M services, Fire Fighting/Suppression and Protection, Plumbing, Sewerage, Water supply services, Building management services (BMS), Acoustics, Solar panel, and any other service/item required for completion of the work of Metro Rail Stations exclusive of Viaduct portions and guideway for the Metro system, and may also include certification of green building IGBC, for the following station Buildings for Phase-2:</i>
3	Clause 3.8.8 (9) of Section-VII of Part-2 (Page 179)	3D rendered walkthrough/animation shall use Maha-Metro logo and Pune Metro Project logo appropriately.	<i>3D rendered walkthrough/animation shall use Maha-Metro logo and Nagpur Metro Project logo appropriately.</i>
4	Clause 3.8.13 (9) of Section-VII of Part-2 (Page 179)	Station DDC will develop comprehensive scheme for Rainwater harvesting for each metro station. DDC shall design rainwater harvesting system for metro station including preparation of BoQ and provide support during construction.	<i>Station DDC will develop comprehensive scheme for Rainwater harvesting for each metro station. DDC shall design rainwater harvesting system for metro station and provide support during construction.</i>
5	Part-IV		Revised Part-IV is enclosed and the same may be referred.
6	Reply/Clarifications to Pre-Bid queries		Attached as Annexure-A to Corriegndum-I

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MAHARASHTRA METRO RAIL CORPORATION LIMITED

09.06.2023

Annexure-A to Corrigendum-I: Pre-bid Queries Reply

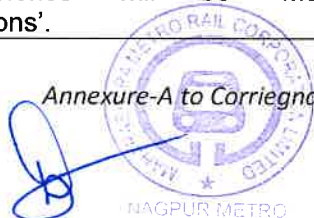
Name of the Work: Detailed Design Consultancy Services for

- (i) 7 (Seven) Elevated Stations viz. Hingna Mountview, Rajiv Nagar, Wanadongri, APMC, Raipur, Hingna Bus Station and Hingna, excluding Viaduct in station portions on Reach-3A of NMRP Phase-II.
- (ii) 3 (Three) Elevated Stations viz. Pardi (Double Decker), Kapsi Khurd and Transport Nagar, excluding Viaduct in station portions on Reach- 4A of NMRP Phase-II.

TENDER No : N2-015/DDC-02/2023

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
1.	Part 1, Section -II, Bid Data Sheet, ITB 1.1, page 29	The successful Bidder has to establish its Office at Nagpur , if it does not have at present.	It is requested to allow interface officer to work from Nagpur office and design expert team to work from head office so as to maximise the use of team and using additional in-house team as and when required. Along with visit to the site/client's office on requirement basis. The same procedure is being followed in other metro also.	Not agreed, tender conditions prevail.
2.	Part -I, Section-III, clause no. 4. Personnel	Note no. 9 (page no 92) In case of project leader and Structural Design Engineer relevant experience will be 'Design of Metro Stations.' Note no. 10. In case of architect relevant experience will be 'Metro Stations'.	It is requested that the relevant experience for Personnel mentioned in table should be modified as Design of Metro station/Proof checking of station.	Not agreed, tender conditions prevail.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
3	PART- IV: Financial Package Page 491	8. DDC has to provide construction support activities as & when required by Maha-Metro. Failing to attend any call at site within 48 Hrs, which will be intimated to the DDC in writing by Maha-Metro, during construction of stations shall lead to imposition of damages at the rate of Rs. 10000/ (Ten Thousand) each occasion upon the DDC. This is exclusive of LD limit describe above in payment schedule.	Since liquidated damages have already been levied, please delete this Clause since it would cause prejudice to the Consultant.	Not agreed, tender conditions prevail.
4.	Part 2: Work requirement; section VII :Scope of work Cl no 11 page no 203	DDC shall earmark the possible spaces/locations for Property Development like retail spaces, advertisement panels, kiosks, vending machines, etc. within the limits of the station building. Due consideration shall be given for Property Development spaces in the detailed design of Architectural, Structural, E&M, HVAC, Plumbing, IBMS, Wastewater system, etc.	Please define the Property Development area to be developed. We understand that we have to do MEP load calculation and space provision only.	DDC is required to identify the type of PD possible in consultation with Maha-Metro during the detailed design stage. The interior detail of MEP design is also included in the scope of work as PD space is part of station building.
5.	Part 2: Work Requirement; Section VII: Scope of Work; Cl. No. 13.7.7; Page 212	The Contractor/DDC shall take full advantage of the 3D object attributes available in the BIM environment to prove cost, constructional logic, fabrication, and program as required by the EMPLOYER/GC.	We understand that the Project Coordinator will be deployed by EPC contractor and not by DDC. Please confirm	DDC shall deploy Project Manager/Co-Ordinator for their scope of work.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		Engagement modality expected for Project Management works including 4D 5D BIM requirements: - i. Contractor shall allocate a Project Coordinator who would be a single-point contact for Employer for monitoring day-to-day progress on the Project.....etc		
6.	General	Soil Resistivity	We understand soil resistivity test I is not in the scope of DDC. Please confirm.	Yes.
7.	General	DBR and Conceptual Drawings	MEP DBR and conceptual drawings are not available in the document. May kindly provide to DDC.	These are to be prepared by the DDC.
8.	Part 1 Section III 4.2 (a) Specific Detailed Design Experience page no 87	a. Should have completed similar consultancy work of at least Eight 08 Elevated and /or Underground Metro Rail Stations in one contract	Minimum requirement of stations shall be relaxed to six 06 stations instead of 8 (eight) for one contract and proportionately reduced for two and three contracts	Not agreed, tender conditions prevail.
9.	Part-IV: Financial Package Section X- Financial Bid Page no 487	c Submission of separate layouts for main station box, entry/exit structures, staircases, escalators, lifts, etc. Progress schedule 8 to 12 weeks	Please consider keeping time frame of 25 to 52 weeks as other discipline inputs are required and dedicated team consisting of 14 key personnel for 18 months (72 weeks) is envisaged to undertake the project.	Please refer Corrigendum-I.



Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

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S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
10.	Part-IV: Financial Package Section X- Financial Bid Page no 488	d) Submission and approval of GFCDS upto Platform level for both entry/exit structures. Progress schedule 12 to 14 weeks	Please consider keeping time frame of 25 to 52 weeks as other discipline inputs are required .	Please refer Corrigendum-I.
11.	Part-IV: Financial Package Section X- Financial Bid Page no 490	a) Submission and approval of all electrical related drawings at all levels and its allied reports. Progress schedule 24 to 32 weeks	Please consider keeping time frame of 52 to 72 weeks as other discipline inputs are required.	Please refer Corrigendum-I.
12.	Part 2 section VII Scope of work 13.0 Digital Delivery of project Page no 208-209	13.3 Allocation of 5D BIM License	May kindly consider to bear expenses of 5D licence fee by the Client	Not agreed, tender conditions prevail.
13.	PART 1: BIDDING PROCEDURE SECTION III: Evaluation & Qualification Criteria	2. Qualification 4.0 Experience: 4.2 (a). A minimum of *Similar Consultancy Works specified below that have been satisfactorily completed as a prime consultant or joint venture member during last 10 (Ten) years i.e., up till 31st December'2022. (a) Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract b) Should have completed	2. Qualification 4.0 Experience: 4.2 (a). A minimum of *Similar Consultancy Works specified below that have been satisfactorily completed / ongoing as a prime consultant or joint venture member during last 10 (Ten) years i.e., up till 31st December'2022. (a) Should have completed / ongoing similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract b) Should have completed /	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.

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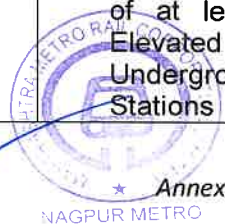


S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		<p>similar consultancy work of at least Ten (10) Elevated and/or Underground Metro Rail Stations in two different Contracts collectively. OR (c) Should have completed similar consultancy work of at least Twelve (12) Elevated and/or Underground Metro Rail Stations in three different Contracts collectively.</p>	<p>ongoing similar consultancy work of at least Ten (10) Elevated and/or Underground Metro Rail Stations in two different Contracts collectively. OR (c) Should have completed /ongoing similar consultancy work of at least Twelve (12) Elevated and/or Underground Metro Rail Stations in in three different Contracts collectively. We request you to modify as per above.</p>	
14.		<p>At Page no. 87, 4.0 Experience: 4.1 General Design Experience: Experience under Detailed Design contracts in the role of prime consultant or JV member, for at least last 10 (Ten) years, starting 1st January 2013 to 31st Dec 2022.</p>	<p>As per Form-20, there is a requirement of no. of metro stations completed in a project. Most of the Indian Consultants does not have a vast experience in metro projects in last 10 years, therefore it is requested to consider experience of Consultant as Experience under Detailed Design contracts/PMC of road/rail/metro in the role of prime consultant or JV member, for at least last 10 (Ten) years, starting 1st January 2013 to 31st Dec 2022. Also any of the JV member/consortium can fulfill the said criteria.</p>	Not agreed, tender conditions prevail.



Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
15.		<p>At Page no. 87, 4.0 Experience: 4.2 (a) Specific Detailed Design Experience:</p> <p>A minimum of *Similar Consultancy Works specified below that have been satisfactorily completed as a prime consultant or joint venture member during last 10 (Ten) years i.e., up till 31st December'2022.</p> <p>(a) Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract.</p> <p>Or</p> <p>(b) Should have completed similar consultancy work of at least Ten (10) Elevated and/or Underground Metro Rail Stations in two different Contracts collectively.</p> <p>Or</p> <p>Should have completed similar consultancy work of at least Twelve (12) Elevated and/or Underground Metro Rail Stations in three different</p>	<p>As a standard requirement for DDC contracts in India, it is requested that the below clause may kindly be added: Value of successfully completed portion of any ongoing work up to 30.11.2022 will also be considered for qualification of work experience criteria.</p> <p>Also any of the JV member/consortium can fulfill the said criteria.</p>	<p>Detailed design activities shall be completed in all respects.</p>



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		<p>Contracts collectively Note: -</p> <p>1. *Similar consultancy work: Detailed Design of Metro Rail Stations including Architectural, Structural and MEP design for stations.</p> <p>2. * **Lead Member experience: Lead member must have experience of detailed design of at least 5 numbers of Metro Rail Stations either as an Architectural or Structural Designer.</p> <p>3. ***Other Member (JV) experience: Other member of the JV must have experience of detailed design of at least 2 numbers of metro rail stations, either as an Architectural or Structural Designer or MEP Designer.</p>		
		<p>At Page 92, Point 4: Personnel Note Point 8: Each person mentioned at Sr. No. 1, 2, 3 and 7 i.e. Project Leader, Structural Design Engineer, Architect and Electrical Engineer should have been working with the Tenderer (With any member of</p>	<p>Position mentioned at Sr. No. 1,2,3, and 7 is of Total 9 nos. required that have been working with the tenderer for not less than 6 months before the last date of submission of bid.</p> <p>For Indian companies to build their capacity in DOC assignments, we request the Client to kindly omit the</p>	<p>Not agreed, tender conditions prevail.</p>

Annexure-A to Corrieendum-I for Tender No: N2-015/DDC-02/2023



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S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		JV/Consortium, as the case may be) for the period not less than 6 months before the date of submission of the Tender. The proposed project leader for providing consultancy services must have experience in Detailed Design of Metro Stations. Rest of the persons shall be on board with the Tenderer from the start of the project.	requirement of regular staff from this bid. The same has been implemented by various metro authorities like by DMRC recently in the Central Vista DOC Bid in order to promote "Make in India Policy". Hence, we request the Client to kindly omit this requirement.	
16.	EQC (2) 4.2 (a) Page-87	<p>Specific Detailed Design Experience: A minimum of</p> <p>*Similar Consultancy Works specified below that have been satisfactorily completed as a prime contractor or joint-venture member during last 10 (Ten) years i.e., up till 31st December'2022.</p> <p>(a) Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract. OR</p> <p>(b) Should have completed similar consultancy work of at least Ten (10) Elevated and/or</p>	For Similar Works Criteria, Currently Ongoing Projects are not mentioned. We request you to kindly revise the criteria by considering such projects which are 80% completed as a similar work.	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

CHENNAI METRO

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		Underground Metro Rail Stations in two different Contracts collectively. OR (c) Should have completed similar consultancy work of at least Twelve (12) Elevated and/or Underground Metro Rail Stations in three different Contracts collectively.		
17.	EQC (2) 3.1 (c) Page-85	Net Worth: Net worth of Bidder ending 31st March'2022 should be positive. Note: Only Statutory Auditor's certificate required to be enclosed with bid. The certificate must be with UDIN.	Due to covid, the consultants have faced a lot of financial issues which has impacted the finances, we request you to kindly revise as follows: Net Worth of the tenderer should be positive (+) in two years during the last three audited financial years.	Not agreed, tender conditions prevail.
18.	EQC (4) Note-8, Page-92	Each person mentioned at Sr. No. 1, 2, 3 and 7 should have been working with the Tenderer (With any member of JV/Consortium, as the case may be) for the period not less than 6 months before the date of submission of the Tender. The proposed project leader for providing consultancy services must have experience in Detailed Design of Metro	Personnel mentioned at serial no: 7 is Electrical Engineer, since most of the Architects/Structural Engineers do not have MEP expertise in-house, we request you to kindly allow using subconsultant for personnel mentioned at Serial no: 7.	Not agreed, tender conditions prevail.

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Annexure-A to Corriegndum-I for Tender No: N2-015/DDC-02/2023

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		Stations. Rest of the persons shall be on board with the Tenderer from the start of the project.		
19.	EQC (4) Note-11, Page-92	Key Personnel shall be deployed in the local office to be established at Nagpur for atleast initial 18 months. However, after 18 months, with the approval of Maha Metro, deployment of Key Personnel may be tapered down depending on the workload.	We request you to kindly allow working of the design team from head office of the tenderer with local coordinators for different disciplines stationed at Nagpur local office for better coordination with client.	Not agreed, tender conditions prevail.
20.	Form-16, page- 117	Form-16: Financial Situation and Performance: <i>Note:</i> <i>In addition to the above Form, the Bidder shall provide a Certificate from Statutory Auditor certifying the above information along with valid UDIN.</i>	We request you kindly modify the note as below: <i>In addition to the above Form, the Bidder shall provide a Certificate from Statutory Auditor/ Chartered Accountant certifying the above information along with valid UDIN.</i>	Not agreed, tender conditions prevail.
21.	Form-17, page- 118	Form-17: Average Annual Turnover <i>Note:</i> <i>In addition to the above Form, the Bidder shall provide a Certificate from Statutory Auditor certifying the above information along with valid UDIN.</i>	We request you kindly modify the note as below: <i>In addition to the above Form, the Bidder shall provide a Certificate from Statutory Auditor/ Chartered Accountant certifying the above information along with valid UDIN.</i>	Not agreed, tender conditions prevail.
22.	Form-19, page- 120	Form-19: Current Contract Commitments / Design Consultancy Works in Progress <i>Note: In addition to the</i>	We request you kindly modify the note as below:	Not agreed, tender conditions prevail.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

NAGPUR METRO

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		above Form, the Bidder shall provide a Certificate from Statutory Auditor certifying the above information along with valid UDIN.	Note: In addition to the above Form, the Bidder shall provide a Certificate from Statutory Auditor/ Chartered Accountant certifying the above information along with valid UDIN.	
23.	Tender Notice	Last Date & time of Submission of Tender documents online = 23/06/2023 upto 1600 hrs	We request you to kindly extend the submission end date to 4 weeks after the reply to prebid queries.	Not agreed, tender conditions prevail.
24.	SECTION III: Evaluation & Qualification Criteria Clause 4.1 General Experience under Detailed Design contracts in the role of prime consultant or JV member, for at least last 10 (Ten) years, starting 1st January 2013 to 31st Dec 2022		We understand that detailed design contracts for Infrastructure projects will also be considered in this criteria. Please confirm.	Yes, it will be considered.
25.	SECTION III: Evaluation & Qualification Criteria Clause 4.2 Specific Detailed Design Experience		We understand that in ongoing projects of DDC where design of some stations is completed, will be considered for qualification as lead partner.	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.
26.	SECTION III: Evaluation & Qualification Criteria 4. Personnel		We understand that project can be completed from home office with periodic site visits. Please confirm	Not agreed, tender conditions prevail.

Annexure-A to Corrieendum-I for Tender No: N2-015/DDC-02/2023



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
27.	Section III 2. Qualification 4.1 General Design Experience:	Experience under Detailed Design contracts in the role of prime consultant or JV member, for at least last 10 (Ten) years, starting 1st January 2013 to 31st Dec 2022.	It is requested that Associate Consultancy Experience should also be considered for qualification.	Not agreed, tender conditions prevail.
28.	Section III 2. Qualification 4.2 (a) Specific Detailed Design Experience	1.Similar consultancy work: specified below that have been satisfactorily completed as a prime consultant or joint venture member during last 10 (Ten) years i.e., up till 31 st December'2022.	It is requested that substantial completion of project (upto 80% completion) should also be considered for qualification.	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.
29.	Section III 2. Qualification 4.2 (a) Specific Detailed Design Experience	A. Should have completed similar consultancy work of at least Eight (08) Elevated and/or Underground Metro Rail Stations in one Contract.	It is requested that substantial completion of project (upto 80% completion) should also be considered for qualification.	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.
30.	Section III 2. Qualification 4.2 (a) Specific Detailed Design Experience	NOTE 4: - Client certificate should clearly mention extent of completion.	It is understood that substantial completion of project (upto 80% completion) would be considered for qualification.	Construction Support activities may still be in progress, but detailed design activities shall be completed in all respects.
31.	Section III 2. Qualification 4. Personnel	Note Point No 3 The minimum number of manpower required to be deployed for this Contract exclusively for each category must be implemented as mentioned above with staggered period of deployment as per	It is requested to approve DOC will Deploy one Project Coordinator at local office for Day to day coordination and rest of the team members will attend meeting and discussion (work remotely at head office).	Not agreed, tender conditions prevail.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023

NAGPUR METRO

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		requirement as approved by MAHA-METRO.		
32.	Pg 3/ 128 (Scope of Work)	Clause 1.1.2 exclusive of Viaduct portions and guide way for the Metro system, and may also include certification of green building IGBC, for the following station Buildings for Phase-2, Elevated cum at grade corridor:	Pls. exclude IGBC certification for elevated & at grade corridor as it is excluded from DDC's scope w r t design & include in scope of Viaduct DDC.	Agreed, please refer Corrigendum-I.
33.	Pg 4/ 128 (Scope of Work)	Clause 2.1.2 vii DDC will consider temporary and permanent diversion works for all utilities affected by the station works and accommodate the Public Utilities in the detailed design with changes as Necessary to accommodate. Data to be given by Maha-Metro. DDC will also provide coordination for this purpose	Utility diversion is part of Contractor's scope as per standard practice. DDC can provide alter scheme based on data provided by Maha-Metro, however verification of on-ground conditions & revisions based on same to be attended by contractor.	It is to clarify that the DDC is not required to carry out detailed design for the utility diversion activities. DDC needs to consider the existing utilities (affected by the station works) and their proposed diversion, to accommodate in the detailed design of the station structures.
34.	Pg 5/ 128 (Scope of Work)	Clause 2.1.2 xvi All the station buildings have been envisaged as fully compliant of requirements of solar energy utilization. Solar Energy utilization compliant design is a specialized job. DDC may engage a sub consultant of requisite expertise with the approval of Maha-Metro at DDC's own cost for making all designs	DDC can provide scheme for optimal solar energy utilization, however for execution & provision of shop drawings vendor should be appointed by Maha metro. DDC will attend the necessary coordination with this vendor appointed by Maha Metro.	DDC shall consider the design aspects of Solar System and its Installation, in the detailed design of the stations. Execution and preparation of shop drawings, vendor will be engaged with whom DDC shall attend the necessary co-ordination.

Annexure-A to Corriegndum-I for Tender No: N2-015/DDC-02/2023



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		compliant of solar energy utilization needs.		
35.	Pg 12/ 128 (Scope of Work)	Clause 3.7.7 Civil and Structural Design The DDC shall perform all civil and structural design within the contract limits including, the preparation of calculations including, the preparation of calculations, drawings, and other documents, as required but not limited to: (a) Detailed Engineering of substructure & super structure viz. foundations, concourse levels, lower platform levels, upper	DDC can provide GA (General Arrangement) for PEB for Roof structure, FOB's & entry exit – however PEB vendor to be appointed by Maha-Metro to provide the shop drawings & execution details, DDC can attend the coordination with PEB vendor appointed by Maha Metro. Similarly for Façade vendor as well.	Detailed design of PEB roof structures, which are in-general steel structures is within the scope of work. If the DDC is not having enough expertise in the design of PEB roof structures, they may engage a specialised consultant for the same.
36.	Pg 16/128 (Scope of Work)	Clause 3.8.8 Architectural Exterior and Interior Walkthrough/Animation	DDC will attend the walk-thro ' for final approved design for a typical station – which covers all the design aspects. Up to finalization of final design -3D views of exterior & interior designs will be provided for presentations & approvals by Maha Metro	Not agreed, tender conditions prevail.
37.	Pg 17/128 (Scope of Work)	Clause 3.8.13 Rainwater Harvesting	Maha Metro to provide hydrogeological data as part of survey information to enable DDC to prepare optimal rain water harvesting design	Yes, agreed.
38.	Pg 18/128 (Scope of Work)	Clause 3.8.15 Content of the deliverable for different stages. 1) Concept Stage/Design	As per our understanding these alternate design schemes are for finalization of Typical Station design.	Concept plans provided in the tender documents are different for each station.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		<p>Alternatives:</p> <p>A) Station box location & sizing analysis, circulation & massing studies as per the reference drawing provided.</p> <p>B) Minimum 3 options of concept plans, Elevations & Perspectives as part of Concept Stage / Design alternatives as the case may be for initial presentation for Maha-Metro's Approval.</p>	Once finalized it will be adopted for the other stations with required modifications based on site conditions	The same are to be studied and design alternatives are to be provided for each station separately.
39.	Pg 25/128 (Scope of Work)	Clause 3.12 Area Traffic Management Plans & Guidelines	DDC shall prepare Traffic management report based on survey information provided by Maha metro & the latest mobility report of the city.	Yes, agreed.
40.	Pg 25/128 (Scope of Work)	Clause 3.12 Area Traffic Management Plans & Guidelines	DDC shall prepare Traffic management report based on survey information provided by Maha metro & the latest mobility report of the city.	Yes, agreed.
41.	Pg 27/128 (Scope of Work)	<p>Clause 3. 3Geotechnical Investigations</p> <p>The DDC shall study all subsurface data made available to it. The DDC shall be responsible for requisitioning all-additional borings, geophysical survey, and field and laboratory tests that it may require for the performance of the DDC services and such data, if considered necessary, will be provided by Maha-Metro.</p>	All Survey information to be provided by Maha metro, any reconnaissance survey / geo tech investigations required to be compensated by Maha metro. Else the extent of survey / investigations required cannot be ascertained at this stage & costs against same cannot be optimally costed.	<p>DDC will be provided the GT repots after award of the contract.</p> <p>Thereafter, they need to study and communicate the requirement of any additional reports/tests which will be then provided through the contractor.</p> <p>DDC need not carry out any investigations/tests and hence no cost towards this.</p>

Annexure-A to Corriegndum-I for Tender No: N2-015/DDC-02/2023

NAGPUR METRO

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
42.	Pg 30/128 (Scope of Work)	Clause 5.1.2 Upon its appointment, the DDC shall promptly commence setting up its organization to the satisfaction of the Maha-Metro and shall be housed in one place in Nagpur. All work by the DDC shall be performed in Nagpur unless otherwise approved by the Maha-Metro in advance.	We request to allow complete design team to work remotely & have local office with experienced design coordinators per discipline to be located at Nagpur for coordination with Maha Metro team & other stakeholders. It is not possible to house large design team at Nagpur.	Not agreed, tender conditions prevail.
43.	General - Property Development	General - Property Development	Can approximate area for property development be informed to ascertain scale of working required.	As available in the conceptual drawings for each station.
44.	General Conditions of Contract (GCC) Part I, Clause 39(i) - Page No. 415	<p>39. Indemnifications (a) The Tenderer shall indemnify, protect and defend at the Tenderer's own expense, the Employer, employees and Employer's engineer from and against any and all actions, claims, losses or damages arising out of any violation by the consultant or in the course of the services of any legal provisions, or any rights or third parties, in respect of literary property rights, copyrights, or patents.</p> <p>The DDC shall indemnify the Employer in the form of Professional Indemnity Insurance, due to professional</p>	<p>The word "direct" needs to be added. Please amend the clause as under:</p> <p>39. Indemnifications (a) The Tenderer shall indemnify, protect and defend at the Tenderer's own expense, the Employer, employees and Employer's engineer from and against any and all actions, direct claims, losses or damages arising out of any violation by the consultant or in the course of the services of any legal provisions, or any rights or third parties, in respect of literary property rights, copyrights, or patents.</p>	Not agreed, tender conditions prevail.

Annexure-A to Corrigendum-I for Tender No: N2-015/DDC-02/2023



S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
		negligence and errors in the design of the works, which shall be valid from the date of commencement of works and for the duration as mentioned in Special Conditions of Contract.		
45.	General Conditions of Contract (GCC) Part I, Clause 11- Page No. 405	<p>11. Liability of DDC to MAHA-METRO: Tenderer shall be liable to pay Compensation to MAHA-Metro arising out of or in connection with the agreement if a breach of Contract is established against him. Such compensation shall be limited to the amount of reasonably foreseeable loss and damage suffered as a result of such breach, subject to maximum of the actual cost of this contract, for which detailed design consultancy services has been provided by this DDC tenderer.</p>	<p>The DDC shall not be liable for the any indirect consequential loss or damages. Hence amending the clause as follow for your consideration.</p> <p>11. Liability of DDC to MAHA-METRO: Tenderer shall be liable to pay Compensation to MAHA-Metro arising out of or in connection with the agreement if a breach of Contract is established against him. Such compensation shall be limited to the amount of reasonably foreseeable loss and damage suffered as a result of such breach, subject to maximum of the actual cost of this contract, for which detailed design consultancy services has been provided by this DDC tenderer. <i>Notwithstanding anything to the contrary provided in the Contract, the Parties agree that the DDC shall not be liable to the Client for any indirect or consequential loss or damages</i></p>	Not agreed, tender conditions prevail.



Annexure-A to Corriegndum-I for Tender No: N2-015/DDC-02/2023

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[Signature]

[Signature]

S.No.	Clause no. and Page no. of RFP	Item Description	Clarification/Queries	Reply
46.	Special Conditions of Contract (SCC) Point 10 Clause 34 (10) Page 413	Clause 33 (10): Cost of Arbitration: The cost of arbitration shall be borne by the respective parties. The cost shall, inter alia, include the fees of the Arbitrator(s) as per rates fixed by the Employer	<p>It is requested that the Employer and Consultant reach a mutual agreement on the Arbitrator(s)' fees.</p> <p>In regards to the same, the clause to be amended as follows:</p> <p>Cost of Arbitration: The cost of arbitration shall be borne by the respective parties. The cost shall, inter alia, include the fees of the Arbitrator(s) as per rates mutually fixed by the Employer and the DDC.</p>	Not agreed, tender conditions prevail.


(MANAGER/PROC)


(GM/Design)


(Manager / Design)



MAHARASHTRA METRO RAIL CORPORATION LIMITED
(NAGPUR METRO RAIL PROJECT, PHASE-II)

BID DOCUMENT

FOR

Detailed Design Consultancy Services for

- (i) 7 (Seven) Elevated Stations viz. Hingna Mountview, Rajiv Nagar, Wanadongri, APMC, Raipur, Hingna Bus Station and Hingna, excluding Viaduct in station portions on Reach-3A of NMRP Phase-II.
- (ii) 3 (Three) Elevated Stations viz. Pardi (Double Decker), Kapsi Khurd and Transport Nagar, excluding Viaduct in station portions on Reach-4A of NMRP Phase-II.

TENDER NO. N2-015/DDC-02/2023

PART- IV: Financial Package
(REVISED)



Maharashtra Metro Rail Corporation Limited

Metro Bhawan, East High Court Road (VIP Road),
Near Dikshabhoomi, Ramdaspath, Nagpur-440010,
Maharashtra, INDIA



May-2023

Website: www.metrorailnagpur.com



May-2023

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Detailed Design Consultancy Services for 10 Elevated Stations of Reach-3A and Reach-4A of Nagpur Metro Project Phase – II

Tender No.: N2-015/DDC-02/2023

INSTRUCTIONS AND PREAMBLE FOR THE PRICING DOCUMENT**1.0 General Requirements**

- 1.1 The Pricing Document shall be read in conjunction with Scope of Work, General Planning Criteria and other provisions of the Tender Documents, Schematic Tender Drawings etc. including Annexures, Appendices, Schedules, Addendums / Corrigendum and any other document forming part of the Tender Document.

This Contract is a **fixed Lump Sum priced Contract**. Rates of the Items shall be fixed throughout the performance of the Contract and not subject to variation on any account except as provided for in the Contract.

- 1.2 Pricing document shall be read in conjunction with the Notice inviting tender, Instructions to the Tenderer, General Conditions of Contract, Special Condition of Contract, Scope of Work, etc. If the specifications in the Scope of Work and General Planning Criteria are inferior with respect to relevant codes and standards, then provisions of the Codes and Standards shall prevail and vice versa. The decision of the Engineer regarding this issue shall be binding on the Consultant.
- 1.3 The unit rates for each item under every Schedule of Items as well as total amount of each Schedule shall be written in indelible ink or type written, in figures and words. Thereby, quoted price for each Appendix shall be calculated and written against each station/service of the work. The total price, as sum of quoted price for all the Schedules of the work shall be shown at the bottom of the summary sheet. The total price shall also be written in words and figures. The person authorized to sign on behalf of the tenderer shall sign in full at bottom of all pages and at the end of schedule. The bidder should ensure that the financial/commercial quote should be only quoted in the Commercial bid option on e-tender portal of Maha-Metro & nowhere else. If by mistake/ inadvertently the rate is quoted/ indicated anywhere in the Technical Submission/ uploading of the Bid document/ Corrigendum / Addendum, the bid will be rejected outright and will not be considered for any further evaluation. The whole cost of complying with the provisions of the Contract shall be deemed to have been included in the quoted rates. The method of measurement of completed work for payment shall be in accordance with the requirements as stated in Part-2 under this bid Document. Errors will be corrected by the Employer for any arithmetical errors in computation or summation as indicated in Contract Document
- 1.4 The rates and prices to be tendered in the Pricing Document are for completed and finished items of work and complete in all respects. It will be deemed to have included all plant, tools, machinery, software, labour, supervision, materials, fuel, oil, all consumable establishment and overhead charges, labour camps, insurance costs for labour and works, Consultant's profit, all taxes **excluding GST**, royalties, duties, cess, octroi, Work-contract-Tax, levies, insurance, freight, cess and all other incidental charges required to fulfill the contract requirements, including statutory deduction viz. TDS towards Income tax / Works contract Tax etc and other levies and other charges together with all general risks, liabilities and



obligations set out or implied in the contract and including all remedies of any defects during till the end of Professional Indemnity Insurance, unless otherwise provided.

The quoted lump sum price should be inclusive of boarding, lodging, travel expenses of all kinds in domestic/ overseas country (ies) and site visits.

1.6 Goods & Service Tax

The Bidder/tenderer shall examine and make his own assessment in regard to Goods & Service Tax liability under the Contract. MAHA-METRO will neither be liable for such examination or assessment nor be liable, in any manner whatsoever, for the reason of bringing to the notice of the Bidder/Tenderers the aforesaid Notification.

However, this contract being predominantly of Service-Providing, Goods and Service Tax reimbursement will be made by MAHA-METRO on production of payment receipts.

- 1.7 The Consultant is solely and directly responsible and liable for payment of all types of taxes, duties, levies, royalties etc. or any other statutory payments, by whatever name it is known, to the respective statutory Authorities/Departments. The Employer will not in any case be liable to or responsible for such payments to or any demand from the Statutory Authorities except for TDS (Tax Deducted at Source of Payment to the Consultant), in case of Statutory provisions of Income-Tax, Work-contract tax or for any other purposes of these Authorities.

The Consultant shall maintain complete records of duties, other taxes, and levies etc payable to various authorities in relation to the Works and submit the receipts/records for verification as and when demanded in writing by the Employer.

- 1.8 The billing break-up shall be as per Price Schedule and terms of payment. MAHA-METRO reserves the right to get all, or any item(s) executed, and payment shall be made only for item(s) executed by the bidder.

- 2.0 **The Interim Payment** shall be made as per Appendix E-3 (Schedule of Interim Payment). The payment to the Consultant will be generally made on monthly basis through Interim Payment defined in the Special Conditions of Contract and the General Conditions of Contract, according to the percent payable on the Items of works covered/described in Appendix-E-3.

The items and description of Item of Payment and Outline of Items of Payment in Appendix-E-3 are "indicative", and the detailed Scope of the Work is given in **Part-II**.

3.0 Fixed Lump Sum Price

- 3.1 The Tenderer shall quote a single total lump sum amount against the Fixed Lump Sum Price (Appendix E-2) of this Contract in the Tender Total for the whole of Works, the amount quoted by the Tenderer are for finished items of the Works complete in all respects, inclusive of all work and will be compiled for the purpose of arriving at the most complete tenderer. It will be deemed to include all Plant, Materials, labour, supervision, materials, Contractor's plant, transport, all temporary work, erection, maintenance, Consultant's profit, and establishment/over heads, together with preparation of design and drawings, all general risks, Insurance liabilities, compliance of labour laws and taxes/duties etc., but **excluding** GST as per statutory obligation set out or implied in the Contract. The quoted



lump sum price should be inclusive of boarding, lodging, travel expenses of all kinds in domestic/ overseas country (ies) and site visits.

- 3.2 If during the course of execution, it becomes necessary in the opinion of the Engineer, to meet the Employer's requirement set out in the scope of work and/or the Consultant's method and programme for the Works, to add another Item of Payment or to delete existing Item of Payment, the percentage of Item of Payment payable on the Fixed Lump Sum Price which will remain unaltered, will be adjusted amongst the other Items of Payment. The liability of the Employer will be limited to the Fixed Lump Sum Price already accepted and the Consultant will have no right to claim anything over and above the Fixed Lump Sum Price for such addition of Item of Payment in the Schedule. The decision of the Engineer will be final and binding in such matters.
- 4.0 TENDER TOTAL as mentioned in the Appendix E-2 (Form of Tender), being total of Lump Sum Price quoted for all stations in this tender scope of work and price quoted will be only considered for inter-se comparative statement for evaluation of tenders and will form the Contract Price after necessary evaluation and check for the lowest tenderer.



APPENDIX E-1

FINANCIAL PROPOSAL

FROM,

To

MAHARASHTRA METRO RAIL CORPORATION LIMITED (MAHA-METRO)
"Metro Bhavan", East High Court Road (VIP Road), Near Dikshabhoomi,
Ramdaspath, NAGPUR, MAHARASHTRA-440010

Sir,

SUBJECT:**Detailed Design Consultancy Services for 10 Elevated Stations of Reach-3A and Reach-4A of Nagpur Metro Project Phase – II**

Tender No.: N2-015/DDC-02/2023

I/We _____ Consultant/consultancy firm herewith attach Appendix E2 the Lump Sum Financial Proposal for the following Stations for selection of my/our organization as Detailed Design Consultants for Tender No: N2-015/DDC-02/2023 under your TENDER NOTIFICATION NO: N2-015/DDC-02/2023 dated -----

Nagpur Metro Project Phase - II Corridor Between _____

Name of the work
Elevated Stations: - Reach-3A: Hingna Mountview, Rajiv Nagar, Wanadongri, APMC, Raipur, Hingna Bus Station and Hingna. Reach-4A: Pardi (Double Decker), Kapsi Khurd and Transport Nagar.

Yours faithfully,

Signature _____
(Authorized Representative)

Full Name _____

Designation _____

Address _____

Note:

If the Consultant consists of more than one entity, they should also appear as signatories, or to be signed by the partner duly authorized by each member of the group.



May-2023

APPENDIX E2**FORM OF TENDER****(Prices to be submitted only on etender portal)**

To:

MAHARASHTRA METRO RAIL CORPORATION LIMITED (MAHA-METRO)"Metro Bhavan", East High Court Road (VIP Road), Near Dikshabhoomi,
Ramdaspeth, NAGPUR, MAHARASHTRA-440010

Dear,

Having examined the Tender Documents for Tender No.: N2-015/DDC-02/2023 as set out in your Notice Inviting Tender, Instructions to Tenderers, the Conditions of Contract and the matters set out in the Appendices, we undertake to design the following under this tender.

S. No.	NAME OF STATION	QUOTED PRICE* (Rs. IN FIGURES)	QUOTED PRICE* (Rs. IN WORDS)
A Architectural services including MMI, Signages and IGBC.			
Reach-3A			
1	Hingna Mountview		
2	Rajiv Nagar		
3	Wanadongri		
4	APMC		
5	Raipur		
6	Hingna Bus Station		
7	Hingna		
Reach-4A			
8	Pardi (Double Decker)		
9	Kapsi Khurd		
10	Transport Nagar		
	TOTAL for A		
B Structural services including PEB roof structures			
Reach-3A			
1	Hingna Mountview		
2	Rajiv Nagar		
3	Wanadongri		
4	APMC		
5	Raipur		
6	Hingna Bus Station		
7	Hingna		
Reach-4A			
8	Pardi (Double Decker)		
9	Kapsi Khurd		
10	Transport Nagar		
	TOTAL for B		
C Services for E&M, HVAC, IBMS, Solar, Firefighting:			
Reach-3A			
1	Hingna Mountview		
2	Rajiv Nagar		
3	Wanadongri		
4	APMC		

5	Raipur		
6	Hingna Bus Station		
7	Hingna		
Reach-4A			
8	Pardi (Double Decker)		
9	Kapsi Khurd		
10	Transport Nagar		
	Total for C		
D	Design of Plumbing and Sanitation Works for all the stations		
E	Walkthrough as mentioned in 3.8.8 of Section-I: Scope of Work of Part-II		
	TENDER TOTAL (A + B + C + D + E)		

- * The Quoted Lump sum Price shall be exclusive of GST. The GST applicable will be paid by MAHA-METRO to the tenderer, if so, claimed against the services raised, subject to documentary proof of payment having been made

I/We also note that:

1. Rates are to be quoted for one and all Stations failing which the tender will be summarily rejected and that no 'pick and choose' of stations is permitted. Total price will be taken into consideration for financial evaluation.
2. The quoted lump sum price should be inclusive of boarding, lodging, travel expenses of all kinds in domestic/ overseas country (ies) and site visits. An authorised official of DDC shall visit the site at least once a month.
3. There could be a relocation of the station(s). Even in such cases, the rate(s) accepted by MAHA-METRO shall be binding on me/us and payment will be made for the actual number of stations designed.
4. TENDER TOTAL as mentioned above, being total of L.S. Price quoted for all stations for the scope of work mentioned in this tender will only be considered for inter-se comparative statement for evaluation of tenders and will form the Contract Price after necessary evaluation and check for the lowest tenderer.
5. GST will be paid only on production of documentary proof for having remitted the same to the concerned government authorities.
6. The Tenderer is required to furnish PAN for all the members of Group in appropriate forms of Part-1 (NIT, ITT, RFQ).
7. The Tenderer is required to give details of Valid GST Registration No. for all members of Group in appropriate form of Part-1 (NIT, ITT, RFQ).

If our tender is accepted, we will provide Performance Guarantee for the due performance of the Contract as stipulated in the Special Conditions of Contract hereto.



Unless and until a formal Agreement is prepared and executed, this tender together with your Letter of Acceptance thereof shall form a binding Contract between us.

We understand that you are not bound to accept the lowest or any tender you may receive.

Yours faithfully,

.....
(Signature) Authorised Representative

.....
.....
(Address)



APPENDIX E3**SCHEDULE OF PAYMENTS**

MAHA-METRO shall make payments to the DDC based on the Stage Payments for each station and as approved and accepted by the Employer's Representative. This shall be based on the individual quoted Lump Sum Price for each station. The stage payments will be made on completion of the corresponding activities, after deducting Liquidated Damages and other statutory Taxes to be deducted at Source as per statutory obligations, if any.

A. For Architectural services including MMI, Signages and IGBC:

S.No.	Nature of Activity	Stage payment of lump Sum	Accumulative payment	Progress schedule weeks from date of issue of letter of acceptance
(1)	(2)	(3)	(4)	(5)
	Lump Sum Price (APPENDIX E2)			
STAGE-1				
1	(a) Study of Conceptual drawings and Presentation of Design Alternatives. (b) Submission of Planning Criteria and complete programme/submission schedule.	5%	5%	2 to 4
2	Submission and Acceptance of Schematic Design & Drawings all level design and drawings including land plan, sections, elevations, etc.	3%	8%	4 to 6
3	Completion of data base Reports for design after compiling data and drawings of all relevant topographical surveys and geotechnical investigations and derivation as well submission of final report for DBR for Architectural Design.	3%	11%	4 to 6
4	Appointment of Solar Consultant. Approval for the same to be obtained from MAHA-METRO, which shall be based on qualification, experience, etc.	2%	13%	8-12
5	Appointment of IGBC Certification Consultant. Approval for the same to be obtained from MAHAMETRO, which shall be based on qualification, experience, etc.	2%	15%	8-12
STAGE-2 (Liquidated Damages apply at this stage)				
6	Architectural Design Deliverables (all detailed drawings i.e., GFCDs including detailed calculations, 3D-BIM models, etc.)	56%	71%	
a	Submission and approval of all General Arrangement Drawings including complete rail level profiles within the scope of work.	12%		8 to 10
b	Submission of Egress calculations and fire evacuation plans.	8%		8 to 10
c	Submission of separate layouts for main station box, entry/exit structures, staircases, escalators, lifts, etc.	12%		14 to 16
d	Submission and approval of detailed room layouts.	12%		14 to 16
e	Submission and approval of finishing schedules and other miscellaneous details.	12%		16 to 24

7	Submission of all deliverables related to Signages	8%	79%	40
8	Submission of all deliverables related to IGBC compliance.	5%	84%	60
STAGE-3				
9	Submission of "Originals" & Design Report.	4%	88%	52
10	Construction Support Activities for first year [#]	4%	92%	-
11	Construction Support Activities for second year [#]	4%	96%	-
10	Acceptance of "As-Built" Drawings and acceptance of design report.	4%	100%	-

B. Structural services including PEB roof structures:

S.No.	Nature of Activity	Stage payment of lump Sum	Accumulative payment	Progress schedule weeks from date of issue of letter of acceptance
(1)	(2)	(3)	(4)	(5)
Lump Sum Price (APPENDIX E2)				
STAGE-1				
1	On submission and Acceptance of Schematic Design & Drawings.	5%	5%	4 to 6
2	Completion of data base Reports for design after compiling data and drawings of all relevant topographical surveys and geotechnical investigations and derivation as well submission of final report for DBR for Structural Design.	5%	10%	4 to 6
3	Setting up Office in Nagpur, with all facilities like computers, software, printers, plotters, etc. upto satisfaction of engineer, based on his verification.	5%	15%	3 to 4
STAGE-2 (Liquidated Damages apply at this stage)				
4	Structural Design Deliverables – GFCDS along with detailed design report, analysis/design models, 3D-BIM models, etc.	70%	85%	
a	Submission and approval of GFCDS for (i) all elements of main station box. (ii) PEB roof structure. (iii) Submission of loading data to viaduct designer.	20%		7 to 12 16 to 18 7 to 12
b	Submission and approval of GFCDS upto plinth level for both entry/exit structures.	10%		7 to 10
c	Submission and approval of GFCDS upto Link Bridge Level for both entry/exit structures.	10%		10 to 12
d	Submission and approval of GFCDS upto Platform level for both entry/exit structures.	10%		20 to 24
e	Submission and approval of GFCDS upto Roof / Terrace level for both entry/exit structures.	10%		24 to 28
f	Submission and approval of GFCDS for Connecting bridges between Main Station box and Entry/Exit structures.	10%		24 to 28
STAGE-3				
6	Submission of "Originals" & Design Report.	3%	88%	52
7	Construction Support Activities for first year [#]	4%	92%	-
8	Construction Support Activities for second year [#]	4%	96%	-
9	Acceptance of "As-Built" Drawings and	4%	100%	-

	acceptance of design report.			
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C. For Design of Plumbing and Sanitation Works

S.No.	Nature of Activity	Stage payment of lump Sum	Accumulative payment	Progress schedule weeks from date of issue of letter of acceptance
(1)	(2)	(3)	(4)	(5)
Lump Sum Price (APPENDIX E2)				
STAGE-1				
1	On submission and Acceptance of Schematic Design & Drawings.	5%	5%	4 to 6
2	Completion of data base Reports for design after compiling data and drawings of all relevant topographical surveys and geotechnical investigations and derivation as well submission of final report for DBR for Plumbing.	5%	10%	4 to 6
STAGE-2 (Liquidated Damages apply at this stage)				
3	Plumbing and Sanitation related deliverables – GFCDs along with detailed design report, analysis/design models, 3D-BIM models, etc.	75%	85%	
a	Submission and approval of all water supply layout at all levels and its allied reports.	15%		16 to 22
b	Submission and approval of all drainage layout at all levels and its allied reports.	15%		16 to 22
c	Submission and approval of sewerage system at all levels and its allied reports.	15%		16 to 22
d	Submission and approval of toilets' layout & details (drainage and water supply system), pump room layout & sections, and its allied reports.	15%		16 to 22
e	Submission and approval of underground tanks, overhead tanks and rainwater harvesting/collection pit along with the respective allied reports.	15%		16 to 22
STAGE-3				
4	Submission of "Originals" & Design Report.	3%	88%	52
5	Construction Support Activities for first year [#]	4%	92%	-
6	Construction Support Activities for second year [#]	4%	96%	-
7	Acceptance of "As-Built" Drawings and acceptance of design report.	4%	100%	-

D. For Services for E&M, HVAC, IBMS, Solar, Firefighting

S.No.	Nature of Activity	Stage payment of lump Sum	Accumulative payment	Progress schedule weeks from date of issue of letter of acceptance
(1)	(2)	(3)	(4)	(5)
Lump Sum Price (APPENDIX E2)				



STAGE-1				
1	(a) Study of Conceptual drawings and Presentation of Design Alternatives. (b) Submission of Planning Criteria and complete programme/submission schedule.	3%	3%	2 to 4
2	On submission and Acceptance of Schematic Design & Drawings.	2%	5%	4 to 6
3	Completion of data base Reports for design after compiling data and drawings of all relevant topographical surveys and geotechnical investigations and derivation as well submission of final report for (a) DBR for Architectural Design. (b) DBR for Structural Design. (c) DBR for Plumbing. (d) DBR for E&M, HVAC, Solar, Firefighting & suppression and IBMS.	5%	10%	4 to 6
STAGE-2 (Liquidated Damages apply at this stage)				
4	E&M, HVAC, Firefighting, Solar, IBMS related Design Deliverables – GFCDs along with detailed design report, analysis/design models, 3D-BIM models, etc.	70%	80%	
a	Submission and approval of all electrical related drawings at all levels and its allied reports.	17%		24 to 40
b	Submission and approval of all HVAC related drawings at all levels and its allied reports.	15%		24 to 40
c	Submission and approval of all Firefighting and suppression system related drawings at all levels and its allied reports.	15%		24 to 40
d	Submission and approval of all IBMS related drawings at all levels and its allied reports.	10%		36 to 50
e	Submission and approval of all CSDs at all levels and its allied reports.	13%		36 to 50
5	Submission of all deliverables related to Technical Specifications, BoQ, Cost estimates for E&M and Lifts & Escalators.	8%	88%	6 to 8
STAGE-3				
6	Submission of "Originals" & Design Report.	2%	90%	52
7	Construction Support Activities for first year [#]	4%	94%	-
8	Construction Support Activities for second year [#]	4%	98%	-
9	Acceptance of "As-Built" Drawings and acceptance of design report.	2%	100%	-

E. For Walkthrough (3.8.8 of Section-I: Scope of Work of Part-II)

S.No.	Nature of Activity	Stage payment of lump Sum	Accumulative payment	Progress schedule weeks from date of issue of letter of acceptance
(1)	(2)	(3)	(4)	(5)
Lump Sum Price (APPENDIX E2)				
1	Walkthrough as mentioned in 3.8.8 of Section-I: Scope of Work of Part-II	100%	100%	24 to 36

Notes:

1. Payment against activities in Stage-2 of the above tables – A, B, C and D will be made after complete submissions of 3D-BIM models, Design Documents, analysis files/models alongwith GFCDs.
2. All payments mentioned above shall be made only after approval of the submissions, by the engineer-in-charge in consultation with the Maha-Metro.
3. The payment against construction support shall be released station wise at the end of respective year.
4. Construction support, if required, beyond the duration/contract period as envisaged for the services in the above tables A, B, C and D, will be paid at the rate 4% per annum + an escalation of 6% per annum over base rate of 4% .
5. Each activity for every station shall be billed articulately & presented for payment, with due concurrence of competent controlling officer of Maha-Metro.
6. The Invoices for the payment will be raised by the DDC at intervals of not less than a month.
7. Liquidated Damages will be recovered for delay of activities beyond respective Key-Dates-(KD) mentioned in the column no.5 of above table @ 0.1% per week subjected to the maximum of 10% of DDC's fees for each station.
8. DDC has to provide construction support activities as & when required by Maha-Metro. Failing to attend any call at site within 48 Hrs, which will be intimated to the DDC in writing by Maha-Metro, during construction of stations shall lead to imposition of damages at the rate of Rs. **10000/ (Ten Thousand)** each occasion upon the DDC. This is exclusive of LD limit describe above in payment schedule.

Construction of the stations under this contract are envisaged to be started in the year 2023 and the requirement of construction support is also expected to start from 2023. However, the start date of the construction support will be communicated to the successful tenderer after award of the contract.



