

Corrigendum-III**Revised/Corrected****NAGPUR METRO RAIL PROJECT
BID DOCUMENT
FOR****CONSTRUCTION OF SEVEN ELEVATED METRO STATIONS AND THREE AT GRADE STATIONS (NORTH SOUTH CORRIDOR) VIZ. CONGRESS NAGAR TO KHAPRI AND VIADUCTS BETWEEN CH:7/850 TO 8/030 AND CH:8/754 TO 9/692 IN REACH-1****Tender No.
NIC-04/2016****PART 1: BIDDING PROCEDURE
SECTION III:
Evaluation & Qualification Criteria****Nagpur Metro Rail Corporation Limited
Metro House, Bungalow No: 28/2,
Anand Nagar, CK Naidu Road,
Civil Lines, Nagpur-440001
Maharashtra, INDIA
Website: <http://www.metroinagpur.com>**

SECTION-III: Evaluation & Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with [ITB 35](#) and [ITB 37](#), no other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in [Section IV](#), Bidding Forms.

Wherever a Bidder is required to state a monetary amount, Bidders should indicate the USD equivalent using the rate of exchange determined as follows:

- For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year.
- Value of single contract - Exchange rate prevailing on the date of the contract.

Exchange rates shall be taken from the publicly available source identified in the [ITB 32.1](#). Any error in determining the exchange rates in the Bid may be corrected by the Employer.

1. Evaluation

In addition to the criteria listed in [ITB 35.2](#) the following criteria shall apply:

1.1 Assessment of adequacy of Technical Proposal with Requirements

The assessment of the Technical Proposal submitted by a Bidder shall comprise (a) evaluation of the Bidder's technical capacity to mobilize key equipment and key personnel to carry out the works, (b) manufacture / construction method, (c) manufacture / construction schedule (d) sufficiently detailed supply sources, in accordance with requirements specified in [Section VII](#) – Works Requirements.

1.2 Multiple Contracts - Not Applicable

1.3 Alternative Completion Times – Not Applicable

1.4 Technical alternatives – Not Applicable

1.5 Specialized Subcontractors

Only the specific experience of sub-contractors for specialized works permitted by the Employer will be considered. The general experience and financial resources of the specialized sub-contractors shall not be added to those of the Bidder for purposes of qualification of the Bidder.

2. Qualification

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
1.0 Eligibility							
1.1	Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Forms ELI – 1.1 and 1.2, with attachments
1.2	Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Bid
1.3	Agency Eligibility	Not being ineligible to the Agency financing, as described in ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Statement of Integrity (appendix to Letter of Bid)
1.4	Government Owned Entity of the Borrower country	Meet conditions of ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
2.0 Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract ¹ did not occur as a result of contractor’s default in the past five (5) years.	Must meet requirement ²	Must meet requirement	Must meet requirement ²	N/A	Form CON-2
2.2	Suspension Based on absence of Bid Security	Not under suspension based absence of a Bid Security pursuant to ITB 4.4 or withdrawal of a Bid pursuant ITB 19.9.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Application Submission Form
2.3	Pending Litigation	Applicant’s financial position and prospective long term profitability still sound according to criteria established in 3.1 below and	Must meet requirement	N/A	Must meet requirement	N/A	Form CON – 2

¹Non-performance, as decided by the Employer, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

²This requirement also applies to contracts executed by the Bidder as JV member.

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium			Docu- mentation
				(existing or intended)			
				All Parties Combined	Each member	Any one member	
		assuming that all pending litigation will be resolved against the Applicant					
3.0	Financial Situation and Performance						
3.1	Financial Capabilities	(i)The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 370 million (or USD equivalent on the day of bid submission) for the subject contract(s) net of the Bidder's other commitments	Must meet requirement	Must meet requirement	Must meet requirement as per their % share in JV	N/A	Form FIN-3.1 and FIN-3.3
i-a.	Bid Capacity	Evaluation of Bid Capacity The Bidders will be qualified only if their available bid capacity is more than the approximate cost of work as per NMRCL assessment. Available bid capacity will be calculated based on the following formula: Available Bid Capacity= 2*A*N – B Where, A = Maximum of the value of construction works executed in any one year during the last five financial years reckoned up to 31st March 2015 (updated to base date price level assuming 5% inflation per year compounded annually) N = Number of years prescribed for completion of the present work B = Value of existing commitments as on first day of the month of this Bid	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN-3.4

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		submission i.e. for on-going construction works during next 104 weeks. Proportionate value will be taken if it falls during the financial year. Note: 1. The available bid capacity should be more than the estimated cost of the proposed work. 2. A certificate issued from a chartered accountant certifying A and B value must be enclosed with the Technical bid					
		(ii) The Bidder shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 3.4
		iii) The audited balance sheets for the last 5 (five) years (FY 2010-11, 11-12, 12-13, 13-14 & 14-15) shall be submitted and must demonstrate the current soundness of the Applicant’s financial position and indicate its prospective long-term profitability. The Bidder should be a Profit (Net) making firm and should have made profit during any two of the last 5 financial years i.e. FY 2013-14 & FY 2014-15.	Must meet requirement	N/A	Must meet requirement	N/A	Form FIN – 3.1, with attachments
(ii-b)	Net Worth	Net worth of Bidder ending 31.03.15 should be minimum INR 1500million . In case of JV, Net worth will be evaluated only for the lead member.	Must meet requirement	N/A	N/A	Must meet requirement (for Lead Member only)	

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of INR 4400 million (or USD equivalent) equivalent calculated as total certified payments received for contracts in progress and/or completed within the last 5 (five) years Note: 1. Last five years shall be 2010-11 to 2014-15. In case of Companies, which follows Financial Year as Calendar Year (January to December), data for 2014 shall be treated equivalent to the data of FY 2014-15 and so on.	Must meet requirement	Must meet requirement	Must meet minimum [twenty] per cent [20%] of the requirement	Must meet at least [forty] per cent [40%] of the requirement (For Lead Member)	Form FIN – 3.2
3.3	CDR	The bidder having undergone Corporate Debt Restructuring (CDR) in last five years must submit their banker’s certificate stating that their account with the bank is “standard account” as on 31/03/2015.	Must Submit	N/A	Must Submit	N/A	
4.0	Experience						
4.1	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, for at least the last 10 (Ten) years , starting 1st March 2006 to 29 Feb. 2016 .	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP – 4.1
4.2 (a)	Specific Construction & Contract Management Experience	A minimum number of similar contracts specified below that have been satisfactorily and completed as a prime contractor, joint venture member ³ during last 10 (Ten) years i.e., up till 29.02.2016 i) Construction of Elevated / Underground /At grade Metro Stations only:-					Form EXP 4.2(a)

³JV must collectively satisfy 100 per cent of the criteria of clause mentioned above, for which purpose the client vetted/certified figures for each of the members shall be added together to arrive at the JV’s total number of stations for Technical Eligibility.

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		<p>(a) At least 05 (Five) Metro Stations out of which minimum 03 (Three) stations must be elevated & remaining 02 (Two) stations may be underground or at grade, in one single contract and viaduct⁴ length more than 800 m.</p> <p style="text-align: center;">OR</p> <p>(b) At least 07 (Seven) Metro Stations out of which minimum 04 (Four) stations must be elevated & remaining 03 (Three) stations may be underground or at grade, in two contracts and viaduct⁵ length more than 800 m in same two contract.</p> <p style="text-align: center;">OR</p> <p>(c) At least 09 (Nine) Metro Stations out of which minimum 05 (Five) stations must be elevated & remaining 04 (Four) stations may be underground or at grade, in three contracts and viaduct⁶ length more than 800 m in same three contract.</p> <p>Note: 1. The experience of construction of stations for High Speed Rail, Tramway, Sub-Urban rail stations shall not be considered as similar work.</p>	<p>(a) Must meet requirement</p> <p>(For b & c) Must meet requirement</p>	<p>(a) N/A</p> <p>(For b & c) Must meet requirement</p>	<p>(a) N/A</p> <p>(For b & c) Must meet minimum [twenty] per cent [20%] of the requirement</p>	<p>(a) N/A</p> <p>(For b & c) Must meet at least [forty] per cent [40%] of the requirement (For Lead Member)</p>	

⁴Viaduct length constructed independently or viaduct constructed in the station location shall also be considered.

⁵Viaduct length constructed independently or viaduct constructed in the station location shall also be considered.

⁶Viaduct length constructed independently or viaduct constructed in the station location shall also be considered.

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		2. Civil / Structural work of Elevated / Underground /At grade Metro stations, with or without EMP work shall be considered as similar work					
4.2 (b)	Key Experience	<p>For the above and any other contracts completed and under implementation as prime contractor, joint venture member on the period stipulated in 4.2 (a) above, a minimum construction experience in the following key activities successfully completed⁷:</p> <p>(i) Bidder should have executed minimum 4000 m length of piles of minimum diameter from 750mm to 1000 mm by Rotary Drilling Hydraulic rigs, in a continuous period of 12 months during the last five years ending 29.02.2016. It can be cumulative of any number of projects in continuous 12-month duration. (It may be noted that continuous period shall be only one single defined period within the above 5 years even for the JV/Consortium partners).</p> <p>(ii) Bidder should have executed minimum 50000 cu.m of concrete works in any 1 years during last 3 years.</p>	Must meet requirements	Must meet requirements	N/A	N/A	Form EXP – 4.2 (b)

⁷Volume, number or rate of production of any key activity can be demonstrated in one or more contracts combined if executed during same time period. The rate of production shall be the annual production rate for the key construction activity (or activities).

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
4.2 (c)	Quality & EHS Qualification Criteria	1. The Bidder must have Environmental Management Certificate ISO: 140001 or equivalent. 2. The Bidder must have Quality Management Certificate ISO: 9001/ DNV/ TUV/ JAS-ANZ/ equivalent 3. The Bidder must have Health and Safety Certificate OHSAS: 18001 The bidder must agree to deploy at least two key personnel having Environment expertise of minimum ten years in sites management measure and the second one in social works with min. 10 year experience.	Must meet requirement	N/A	N/A	Must meet requirement (Lead Member)	Form PER-2 (for CV of EHS personnel)

Special Notes:-

1. Bidders may associate with an EMP contractor as a sub-contractor (those agencies who have carried our similar EMP works for Metro stations. major infrastructure projects, malls, airports, hotels, hospitals etc.) after award of the work subjected to fulfil the eligibility criteria described in **Annexure-A to Addendum-II** and subsequent approval of **NMRCL**.
2. EMP contractor cannot be a JV/Consortium partner & his experience cannot be taken in to consideration.
3. JV/Consortium must collectively satisfy 100 per cent of the criteria of clause mentioned above Cl. 3 & 4, for which purpose the client vetted/certified figures for each of the members shall be added together to arrive at the JV's total number of stations for Technical Eligibility.
4. Full (100%) experience for previous works of the JV shall be considered, if the claiming member of the JV has at least 65% share in previous consortium/ JV for the relevant referred Work Experience, else proportionate quantum of experience of previous works up to the percentage share of participation in the previous JV shall

be considered. However if any member has less than **20%** share in previous JV/consortium, his experience shall not be considered for evaluation.

5. Viaduct constructed in any independent contract or viaduct constructed along with the station contract within the stations shall also be considered for evaluation under similar work experience for viaduct in proposed tender.
6. The JV/Consortium member having **maximum % contribution** in similar work past experience should be the Lead Member in proposed JV/Consortium.
7. Existing JV/Consortium already worked/working in other metro rail project & meeting the eligibility criteria, mentioned in Bid Document, can bid as a same JV. For such case work experience criteria of Single Entity shall be applicable.
8. In case of JV/Consortium, the proportionate experience pertain to construction of stations or similar items in numbers may be rounded off to nearest digit as per standard practice. Example= (i) 2.5 & above shall be rounded off as 3. (ii) 2.49 & below shall be rounded off as 2.
9. Bidder as a single entity or as JV/Consortium already working for Station construction in any other **Metro Rail Project** and who have completed **80%** of the awarded cost of the work (**Financially**), which should be explicitly mentioned in the Employer's certificate, shall be considered as **substantially completed** work against the eligibility condition of this proposed tender. Client/Employer's certification is must in this regard. NMRCL reserve the right to get such certificate validated from the Employer.

5. Personnel

The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements:

No.	Position	Minimum Requirement	Qualification	In Similar Works Experience (years)
1	Chief Project Manager (Team Leader)	1	Graduate / Diploma in Civil Engg.	Minimum total experience of 15 years out of which, minimum 03 years as In-charge of similar works
2	Project Manager	3	Graduate / Diploma in Civil Engg.	Minimum total experience of 12 years out of which, minimum 03 years as In-charge of similar works
3	Dy. Project Manager	3	Graduate in Civil Engg. / Diploma in Civil Engg.	Minimum 10 years for Degree & 15 years for Diploma, out of which minimum 2 years in similar work.
4	Quality Assurance (QA)- Engineer	1	Graduate in Civil Engg. / Diploma in Quality Assurance	Minimum total experience of 10 years out of which minimum 05 yrs. in QA (field) and at least one year as In-Charge.
5	Architect	1	B.Arch	Minimum 5 year experience in design or execution of commercial/ public building
6	Civil Engineer	6	Graduate or Diploma in Civil Engineering	Minimum 5 years for Degree & 8 years for Diploma in project execution works
7	Electrical engineer	1	Graduate in Electrical Engg. / Diploma	Minimum 5 years for Degree & 8 years for Diploma
8	Mechanical Engineer	1	Graduate in Mechanical Engg. / Diploma	Minimum 5 years for Degree & 8 years for Diploma
9	Plumbing Engineers	1	Graduate/ Diploma in Civil	Minimum 5 years in plumbing works of public

			Engg	buildings
10	Safety Manager	As per SHE Manual	As per SHE Manual	As per SHE Manual
11	Expert on Environmental, Health & Social	1	Graduate in Environmental Sciences	Should have minimum 10 years of experience out of which minimum 5 Years of Experience in similar Metro Rail / Highway / Airport development projects.
12	Expert on Social management	1	Master in Social Work (MSW)/ Graduate in relevant subjects	Should have minimum 10 years of experience out of which minimum 5 Years of Experience in similar Metro Rail / Highway / Airport development projects.
13	Project Management Engineer	1	Graduate in Civil Engg. / Diploma in Civil Engg.	Minimum experience of 5 years and should be expert in AutoCad&project management software. Preferably 5D BIM specialized

The above requirements are minimum and the contractors should be capable to deploy additional technical work force if required as per site condition.

The Bidder shall provide details of the proposed personnel and their experience records using Forms PER-1 and PER-2 included in Section IV, Bidding Forms.

6. Equipment

The Bidder must demonstrate that it has the key equipment listed hereafter:

No.	Equipment Type and Characteristics	Minimum Number required	Max permissible age in years
1	Piling equipment hydraulic rig	4	5
2	Fully automatic and computerized batching plant (2 nos. of 30 cum) minimum or equivalent capacity in different configuration at casting yard with an RO of suitable capacity for proper quality of water	60 cum/hr	10
3	Concrete pumps	6	10
4	Boom placers	2	10
5	Cranes / road cranes in casting yard / site of	3	15 (Mobile crawler

No.	Equipment Type and Characteristics	Minimum Number required	Max permissible age in years
	suitable capacity		cranes); 10 (tyre mounted hydraulic crane)
6	Cranes / road cranes of suitable capacity for launching / erection	5	15 (Mobile crawler cranes); 10 (tyre mounted hydraulic crane)
7	Gantry of suitable capacity in casting yard	2	15
8	Minimum number of pre-casting beds (typical)	5	NA
9	Launching cranes of suitable capacity (**)	4	10
10	Transit mixers	12	10
11	Trailers for carrying girders – 75T / 200T respective capacity	6	10
12	Lab testing equipment – fully equipped for site tests	As per requirement	--

(**) If the LGs are found to be short and not adequate to complete the works as per key dates, then further LGs to be arranged or alternately, other methods of launching keeping the road traffic going should be adopted to accelerate the Launching of girders

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Bidding Forms.

Note:

- (a) At the time of bidding contractor must demonstrate the possession of these plants & equipment and capable to mobilized within short notice without wasting prime working time.
- (b) In case contractor opts for short line method for casting, the no. of pre-Casting beds would increase accordingly.
- (c) These resources are for peak period of each activity. All plants and equipment need to be mobilized simultaneously; plants and equipment as required as per the progress of the work shall be brought at site in advance or as directed by Engineer in charge.

7. Domestic Preference (Deleted)

Not Applicable