

NAGPUR METRO RAIL PROJECT
BID DOCUMENT
FOR

Construction of METRO Train Depot at MIHAN (North-South Corridor) & HINGNA (East-West Corridor) including Civil & E&M Works for Nagpur Metro Rail Corporation Limited

Tender No.
N1C-05/2016

PART 1: BIDDING PROCEDURE
SECTION III:
Evaluation & Qualification Criteria



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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. 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			Documentation
				(existing or intended)			
				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	N/A	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							

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
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 assuming that all pending litigation will be resolved against the Applicant	Must meet requirement	N/A	Must meet requirement	N/A	Form CON-2
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	Must meet requirement	Must meet requirement.	Must meet requirement proportion to the % Share in the JV*.	Lead Member Should satisfy at least 51% of the requirement*.	Form FIN-3.1 and FIN-3.3

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 (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		estimated as INR 238 million (or USD equivalent on the day of bid submission) for the subject contract(s) net of the Bidder's other commitments.					
i-a.	Bid Capacity	<p>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 2016 (updated to base date price level assuming 5% inflation per year compounded annually for indian project and 2% for foreign project.) N = Number of years prescribed for completion of the present work B = Value of existing commitments as on first</p>	Must meet requirement	Must meet requirement	Must meet requirement proportion to the % Share in the JV*.	Lead Member Should satisfy at least 51% of the requirement*.	Form FIN-3.4

Revised Evaluation & Qualification Criteria
(Corrigendum-V: Part-C)

NMRCL

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Part-1: Bidding Procedure
Section-III: Evaluation &
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No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		<p>day of the month of this Bid submission i.e. for on-going construction works during next 104 weeks. Proportionate value will be taken if it falls during the financial year.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. The available bid capacity should be more than the 2850 Million (INR). 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	Must meet requirement proportion to the % Share in the JV*.	Lead Member Should satisfy at least 51% of the requirement*.	Form FIN – 3.4
		iii) The audited balance sheets for the last 5 (five) years (FY 2011-12, 12-13, 13-14, 14-15 & 15-16) shall be submitted and must demonstrate the current soundness of the Applicant's financial position and indicate its prospective long-term profitability.	Must meet requirement	Must meet requirement	N/A	Lead Member must meet requirement	Form FIN – 3.1, with attachments

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No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium (existing or intended)			Documentation
				All Parties Combined	Each member	Any one member	
		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 2011-12, 12-13, 13-14, 14-15 & 15-16)					
(ii-b)	Net Worth	Net worth of Bidder ending 31.03.16 should be minimum INR 950 million . In case of JV, Net worth will be evaluated only for the lead member.	Must meet requirement	Must meet requirement	N/A	Lead Member Must meet requirement.	
3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of INR 2850 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 2011-12 to 2015-16. In case of Companies, which follows Financial Year as Calendar Year (January to December), data for the year 2015 shall be treated equivalent to the data of FY 2015-16 and so on.	Must meet requirement	Must meet requirement	Must meet requirement proportion to the % Share in the JV*.	Lead Member Should satisfy at least 51% of the requirement*.	Form FIN – 3.2
3.3	CDR	The bidder having undergone Corporate	Must Submit	N/A	Must Submit	N/A	In case,

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No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium			Documentation
				(existing or intended)			
				All Parties Combined	Each member	Any one member	
		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 31/03/2016.					CDR has not been undergone by the bidder then under taking to this effect shall be submitted.
4.0	Experience						
4.1	General Construction Experience	Experience under construction contracts in the role of prime contractor or JV member, for at least the last 10 (Ten) years, starting 1st March 2006 to 31 March 2016.	Must Submit.	N/A	Must Submit.	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 30.04.2016 i) Construction of					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>Metro Depot / **Similar Works:</p> <p>(a) Should have received at least INR. 2280 Million in one Single Contract comprising of metro depot or metro construction works which should have been substantially completed civil construction works.</p> <p style="text-align: center;">OR</p> <p>(b) Should have received at least INR. 1425 Million each Collectively in two contracts. Out of the two contracts, one contract must cover at least one substantially completed Metro Construction work and the second contract may be **Similar Works:</p> <p style="text-align: center;">OR</p> <p>(c) Should have received at least INR. 1140 Million each in three contracts. Out of the three contracts, one contract must cover at least one</p>	<p>(a) Must meet requirement</p> <p>(For b & c) Must meet requirement</p>	<p>(a) Must meet requirement.</p> <p>(For b & c) Must meet requirement</p>	<p>Must meet requirement proportion to the % Share in the JV*.</p> <p>(For b & c) Must meet requirement proportion to the % Share in the JV*.</p>	<p>Lead Member Should satisfy at least 51% of the requirement*.</p> <p>(For b & c) Lead member must meet at least 51% of the requirement*.</p>	

No.	Subject	Requirement	Single Entity	Joint Venture/ Consortium			Documentation
				(existing or intended)			
				All Parties Combined	Each member	Any one member	
		substantially completed Metro Construction work and the second and third contract may be** Similar Works:					
4.2 (b)	Key Experience	Deleted					
4.2 (c)	Quality & EHS Qualification Criteria	<p>1. The Bidder must have Environmental Management Certificate ISO: 14001</p> <p>2. The Bidder must have Quality Management Certificate ISO: 9001/ DNV/ TUV/ JAS-ANZ/ equivalent</p> <p>3. The Bidder must have Health and Safety Certificate OHSAS: 18001</p> <p>The bidder must agree to deploy at least one key personnel having Social & Environment expertise of minimum ten years in sites management measure pertain to Social & Environment issues.</p>	Must meet requirement	Must meet requirement	N/A	Lead member Must meet requirement.	Form PER-2 (for CV of EHS personnel)

2. Special Notes:-

* Indicates that in the above qualification table, serial no 3 and 4.2(a), in case the eligibility criteria set forth therein is fulfilled fully by the lead member of the proposed JV/Consortium, then other JV/ Consortium members if having more than 20% share will have to satisfy the criteria proportional to their share. JV/ Consortium member with less than 20% share will not be required to satisfy the same.

3. ****Similar works** for this contract shall mean the construction work including All Civil construction of Metro Station /Metro Depots / Oil Depots/ Railway Workshops/ Airport / Oil Refineries/Industrial Unit/IT Park for Central Govt./State Government/ PSU/ Urban Local Bodies/Private Corporates registered with NSE/BSE in India or other industrial units/ plant of comparable magnitude and similar activities of work having piling, Pre-fabricated /Pre-Engineered / fabricated Steel structures and Sheds, Architectural finishes, EMP works which may/may not include installations of Machinery and Plants & Equipment involving interface with all systems”.

4. Substantially completed Metro Construction means the Construction of stations works, Viaduct Construction works and Depot Construction work must have been completed at least 90%. Client certificate should clearly mention extent of completion.

5. Bidders may associate with an E&M contractor as a sub-contractor (those agencies who have carried out similar E&M works for Metro stations, major infrastructure projects, malls, airports, hotels, hospitals etc.) after award of the work subjected to the approval of NMRCL. For eligibility criteria of E&M Sub-Contractor, Ref: Annexure-III-A.

6. EMP contractor cannot be a JV/Consortium partner & his experience cannot be taken in to consideration.

7. 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.

8. 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.

9. The JV/Consortium member having maximum % contribution in past experience of similar works, should be the Lead Member in proposed JV/Consortium and share of such lead member should not be less than 51%.
10. Existing JV/Consortium already worked /working in other metro rail /**similar work & meeting the eligibility criteria, mentioned in Section-III of Bid Document, can bid as a same JV. For such case work experience criteria of Single Entity shall be applicable.
11. Bidder as a single entity or as JV/Consortium already working for Metro Rail Project / **Similar construction work as specified above, who have completed **90%** of the awarded work (Financially), shall be considered as substantially completed work against the eligibility condition of this proposed tender. Client certification is must in this regard which should be explicitly mentioned in the Employer's certificate. NMRCL reserve the right to get such certificate validated from the Employer.
12. The value of the previous work shall be updated to base date price level assuming 5% inflation per year for Indian project & 2% for foreign project.
13. No MOU with E&M Sub-contractor required at the time of bidding.
14. Successful contractor shall apply along with the credential of E&M Sub-Contract and obtain approval of NMRCL for engagement of E&M Sub-Contractor.
15. In case the bidder for this work is already awarded other works in NMRCL, then the eligibility criteria for such bidders shall be:
 - a. Receipt from similar work for work experience claimed under single contract should be more than the sum of INR 2280 Million Plus 80 % of value of outstanding work at NMRCL.

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- b. The receipt from similar work for work experience claimed under two contracts should be more than the sum of INR 1425 Million Plus 50 % of value of outstanding work at NMRCL added to both the contracts separately.
- c. Receipt from similar work for work experience claimed under three contracts should be more than the sum of INR 1140 Million Plus 40% of value of outstanding work at NMRCL added to the three contracts separately.

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 in Civil Engg.	Minimum total experience of 15 years out of which, minimum 05 years as In-charge of similar works
2	Project Manager	6	Graduate in Civil Engg.-02 No Graduate in Mechanical Engg.-02 No Graduate in Electrical/Electronic Engg.-02 No	Minimum total experience of 10 years out of which, minimum 03 years as In-charge of similar works
3	Dy. Project Manager	6	Graduate / Diploma in Civil Engg./Mechanical Engg./Electrical Engg	Minimum 8 years for Degree & 12 years for Diploma, out of which minimum 2 years in similar work.

4	Quality Assurance (QA)- Engineer	2	Graduate in Civil Engg. / Diploma in Quality Assurance- 1no Graduate in Electrical/Mechanical Engg. / Diploma in Quality Assurance- 1no	Minimum total experience of 10 years out of which minimum 05 yrs. in QA (field) and at least one year as In-Charge.
5	Civil Engineer	8	Graduate or Diploma in Civil Engineering	Minimum 5 years for Degree & 8 years for Diploma in project execution works
6	Electrical engineer	4	Graduate in Electrical Engg. / Diploma	Minimum 5 years for Degree & 8 years for Diploma
7	Mechanical Engineer	4	Graduate in Mechanical Engg. / Diploma	Minimum 5 years for Degree & 8 years for Diploma
8	Safety Manager	2	As per SHE Manual	As per SHE Manual
9	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.

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	2	5
2.	Fully automatic and computerized batching plant (2 nos. of 30 cum) minimum or equivalent capacity in different configuration at casting yard with	60 cum/hr	10

No.	Equipment Type and Characteristics	Minimum Number required	Max permissible age in years
	an RO of suitable capacity for proper quality of water		
3.	Concrete pumps	2	10
4.	Cranes / road cranes in casting yard / site of suitable capacity	4	15 (Mobile crawler cranes); 10 (tyre mounted hydraulic crane)
5.	Vibratory rollers	4	15 (Mobile crawler cranes); 10 (tyre mounted hydraulic crane)
6.	Motor Grader	4	
7.	Water Tanker	10	
8.	Hydraulic Excavator	4	
9.	Loader Excavator/Back hoe	8	
10.	Transit mixers	8	10
11.	Welding Machine	10	
12.	Lab testing equipment – fully equipped for site tests	As per requirement	--

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