

JAIPUR METRO RAIL CORPORATION LTD.

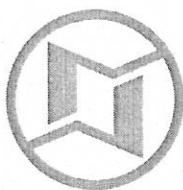
Bidding Document - NCB No.- JP/EW/IB/JFT-1

“NCB No.- JP/EW/IB/JFT-1: Supply, Installation, Testing and Commissioning of Ballastless Track of Standard Gauge from Chandpole to Badi Chaupar in Underground Sections on East-West Corridor of Jaipur Metro (Phase 1B) at Jaipur, Rajasthan, India”.

ADDENDUM No. 2

SUMMARY SHEET

| S. No. | Document | Page No. | Clause No. /Item No. | Addendum/ Corrigendum | Remarks |
|---------------|--|-----------------|---------------------------------|--------------------------------------|------------------------------|
| 1. | Invitation for Bid | 0-1R | Deadline for submission of Bids | Date extended | Replace Page 0-1R with 0-1R1 |
| 2. | Invitation for Bid | 0-3 | Para 4.1(ii) to 4.3.2 | To maintain continuity of paragraphs | Replace Page 0-3 with 0-3R |
| 3. | Invitation for Bid | 0-4R | 5 | Date extended | Replace Page 0-4R with 0-4R1 |
| 4. | Invitation for Bid | 0-5R | 8 | Date extended | Replace Page 0-5R with 0-5R1 |
| 5. | Part – 1 Bidding procedure section – 2 Bid Data Sheet (BDS) | 2-4R | ITB 22.1 | Date extended | Replace Page 2-4R with 2-4R1 |
| 6. | Part – 1 Bidding procedure section – 2 Bid Data Sheet (BDS) | 2-4R | ITB 25.1 | Date extended | Replace Page 2-4R with 2-4R1 |
| 7. | Part – 1 Bidding procedure section – 4 Bidding forms (BDS) Vol-II (Schedule of prices) Part II- Bill of Quantities | 32 | Item no. 9 | Item added | Replace Page 32 with 32R |
| 8. | Track structure with Derailment Guard in Circular Tunnel with MSS Cant 0-30 | | Part 2 Book 2 | Drawing provided | |
| 9. | Track structure with Derailment Guard in Circular Tunnel with MSS Cant 30-110 | | Part 2 Book 2 | Drawing provided | |



JAIPUR METRO RAIL CORPORATION LIMITED (JMRC)

Invitation for Bids

Date: 16 November 2016

Loan No. and Title 3062- IND, Jaipur Metro Rail Line-1-Phase-B Project

Contract No. and Title NCB No.- JP/EW/1B/JFT-1: Supply, Installation, Testing and Commissioning of Ballastless Track of Standard Gauge from Chandpole to Badi Chaupar in Underground Sections on East-West Corridor of Jaipur Metro (Phase 1B) at Jaipur, Rajasthan, India

Deadline for upto 1500 Hrs on 14 February 2017

Submission of Bids

1. INDIA has received financing from the Asian Development Bank (ADB) toward the cost of Jaipur Metro Rail Line 1-Phase B Project. Part of this financing will be used for payments under the contract named above. Bidding is open to Bidders from eligible source countries of the ADB.
2. Jaipur Metro Rail Corporation (JMRC) ("the Employer") invites sealed bids from the eligible bidders for the Supply, Installation, Testing and Commissioning of Ballastless Track of Standard Gauge from Chandpole to Badi Chaupar in Underground Sections on East-West Corridor of Jaipur Metro (Phase 1B) at Jaipur, Rajasthan, India- NCB No.- JP/EW/1B/JFT-1 ("the Works").
3. National Competitive Bidding will be conducted in accordance with ADB's Single - Stage: Two- Envelope bidding procedure and is open to all eligible Bidders as described in the bidding document.
4. Only eligible bidders with the following key qualifications should participate in this bidding:

4.1 Construction experience

- (i) Participation in at least one contract that **of similar work** has been successfully or substantially completed within the last seven years **ending on the last day of previous months of the tender submission and that is similar to the proposed works**, where the value of the Bidder's participation exceeds at least INR 22.62 crore. The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity,

2. For successfully or substantially completed works, value of work done shall be updated to 'the deadline for submission of bids' price level assuming 2% inflation per year. Substantially completed means 80% of the contract value.
3. The exchange rate of foreign currency shall be applicable to the deadline for submission of bids.
4. Documentary proof such as successfully or substantially completed certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. The offers submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by Chartered Accountant under his signature, stamp and membership number, Tax Deducted at Source (TDS) certificates for all payments received and copy of final/last bill paid by client shall be submitted.
5. Only the value of contract as executed by the Bidder/Member in its own name should be indicated. Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded.

4.2 Pending Litigation

All pending litigation and arbitration, if any, shall be treated as resolved against the Bidder and so shall in total not represent more than 60 percent of the Bidder's net worth calculated as the difference between total assets and total liabilities.

4.3 Financial Situation

- 4.3.1 Net worth: As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive. Bidder either in single entity or each partner of the JV/Consortium must meet requirement.
- 4.3.2 Average Annual Construction Turnover: As a minimum, the Bidders should have average annual construction turnover of INR 56.54 crore calculated as total certified payments received for contracts in progress or completed, within the last three years. Bidder, if in single entity, must meet requirement by itself. Bidder, if in JV/Consortium should meet following requirements:

- (a) Each partner must meet minimum 25% of the minimum requirement;
- (b) At least one partner must meet 40% of the minimum requirement and
- (c) All partners combined must meet the minimum requirement.

4.3.3 Financial Resources: The Bidder must demonstrate that it has the financial resources to meet current contract commitments, as defined in FIN-4 (Total Financial Requirements for Current Contract Commitments), plus the requirements for the Subject Contract of INR 7.07 crore –

- (i) **In case of single entity** must meet requirement.
- (ii) **In case of JV/Consortium** should meet following requirements:
 - (a) Each partner must meet minimum 25% of the minimum requirement;
 - (b) At least one partner must meet 40% of the minimum requirement and
 - (c) All partners combined must meet the minimum requirement.

4.4 Equipment requirement

For welding of Rails, the bidder shall have RDSO approved mobile Flash Butt Welding Plant with standardization of welding parameters for HH Rails along with final QAP approved by RDSO as per Addendum & Corrigendum slip No. 2 of Manual for Flash Butt Welding of Rails (Revision Jan. 2012) clause 5.6.2 as per Annexure – X & XI or shall have MOU with the owner of such welding plant owner and the same should be reflected under standard form mention in section 4- Bidding Forms.

5. Key details of the Bid are as under:-

| | | |
|--|---|---|
| Bid Security amount | : | Refer to the Bidding Document |
| Completion period of the Work | : | 12 months |
| Period of Bidding Documents on inspection and sale | : | From 16.11.2016 to <u>14.02.2017</u> (between 09:30 hrs and 18:00 hrs) on all working days and on <u>14.02.2017</u> (between 09:30 hrs and 15:00 hrs) |

6. To obtain further information and inspect the bidding documents, Bidder shall contact:

Mr. Ashwani Saxena, Director (Project)
Jaipur Metro Rail Corporation Limited,
3rd Floor, RSIC building, Udyog Bhawan,
Tilak Marg, C-Scheme,
Jaipur, Rajasthan, India
PIN - 302 005
Telephone: +91-141-5192 450, 455,458
Facsimile number: +91-141-5192 451
Electronic mail address: jmrctracktender1b@gmail.com

7. To purchase the bidding documents in English, eligible bidders should:

- write to address above requesting the bidding documents for: **“NCB No.- JP/EW/1B/JFT-1: Supply, Installation, Testing and Commissioning of Ballastless Track of Standard Gauge from Chandpole to Badi Chaupar in Underground Sections on East-West Corridor of Jaipur Metro (Phase 1B) at Jaipur, Rajasthan, India”.**
- Pay a non-refundable fee of INR 21,000 (Twenty one thousand) only in the form of ‘Demand Draft’ in favour of “Jaipur Metro Rail Corporation Ltd” payable at Jaipur.

Bidding document requested to be delivered by mail, will be dispatched by registered/speed post/courier upon payment of an additional amount of INR 5,000 for domestic applicants and INR 10,000 for overseas applicants. The Employer shall not be held responsible for the postal/courier delay, if any, in the delivery or non-delivery of the Bidding Documents.

8. Deliver your bid:

- to the address above
- on or before the deadline: up to 15.00 Hrs on **14.02.2017**
- together with a Bid Security as described in the Bidding Document

Bids will be opened immediately after the deadline for bid submission in the presence of bidders’ representatives who choose to attend.

| | |
|----------|---|
| | bind, the intended or existing Joint Venture. If the Joint Venture has not yet been formed, also include evidence from all proposed Joint Venture partners of their intent to enter into a Joint Venture in the event of a contract award in accordance with ITB11.2" |
| ITB 20.2 | The Bidder shall submit an acceptable authorization within 14 days. |

D. Submission and Opening of Bids

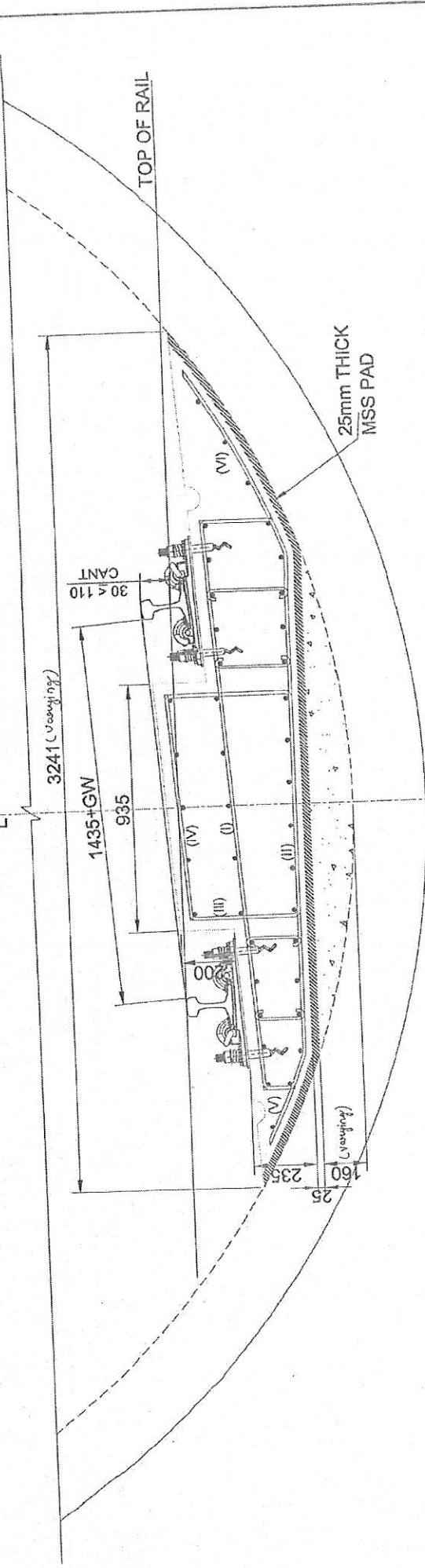
| | |
|--------------|--|
| ITB 21.1 | Bidders shall not have the option of submitting their Bids electronically. |
| ITB 21.1 (b) | Bidders shall not have the option of submitting their Bids electronically. |
| ITB 22.1 | <p>For <u>bid submission purposes</u> only, the Employer's address is:</p> <p>Attention: Mr. Ashwani Saxena, Director (Project) Jaipur Metro Rail Corporation Limited, 3rd Floor, RSIC building, Udyog Bhawan, Tilak Marg, C-Scheme, Jaipur, Rajasthan, India PIN - 302 005</p> <p>The deadline for bid submission is: Date: <u>14.02.2017</u> Time: 15:00 hrs</p> |
| ITB 25.1 | <p>The opening of the Technical Bid shall take place at:</p> <p>Jaipur Metro Rail Corporation Limited, 3rd Floor, RSIC building, Udyog Bhawan, Tilak Marg, C-Scheme, Jaipur, Rajasthan, India PIN - 302 005</p> <p>Date: <u>14.02.2017</u> Time: Immediately after the deadline for bid submission.</p> |
| ITB 25.1 | Bidders shall not have the option of submitting their Bids electronically. |

E. Evaluation and Comparison of Bids

| | |
|----------|---|
| ITB 34.1 | <p>The currency that shall be used for bid evaluation and comparison purpose to convert all bid prices expressed in various currencies into a single currency is: Indian Rupee (INR).</p> <p>The source of the selling exchange rate shall be: Reserve Bank of India.</p> <p>The date for the selling exchange rate shall be: 28 days prior to the deadline for submission of the Bids.</p> |
| ITB 35.1 | A margin of preference shall not apply. |

| Item no. | Description of Items | Unit | Total Qty. | Rate in INR | Rate in Foreign Currency | Amount in INR | Amount in Foreign Currency |
|----------|---|--------------------------|-------------|-------------|--------------------------|---------------|----------------------------|
| 5 | Painting of rail at Stations at viaduct, complete underground portion, main line turnouts and covered lines in Depots with Anti Corrosive Bitumen Black Paint as per IS:9862 | Track m | 5000 | | | | |
| 6 | Payments for all expenditure over and above for plinths height specified in tender drawing. | Cum | 50 | | | | |
| 7 | Installation of hand operating mechanism for 1 in 7 type Derailing Switch. | Nos. | 1 | | | | |
| 8 | Installation of Brackets & Check Rail on underground including core cutting of holes, grouting including transportation of materials on underground and drilling holes in check rails complete. | Track m | 100 | | | | |
| 9 | <u>Providing Derailment Guard in Tunnel as per approved drawing including cost of RMC of Grade M35 (Minimum cement content 410 Kg/cum), reinforcement, pumping, laying, shuttering, finishing, curing all leads & lifts etc. all complete as per the direction of Engineer-in-charge.</u> | | | | | | |
| | | <u>Track</u> <u>m</u> | <u>5000</u> | | | | |
| | Total Carried Forward to Grand Summary | | | | | | |

C of Tunnel / Track



TYPICAL CROSS-SECTION OF MSS TRACK SLAB
REINFORCEMENT IN CANT 30mm (INCLUDED) TO 110mm (INCLUDED)
(SCALE 1:15)

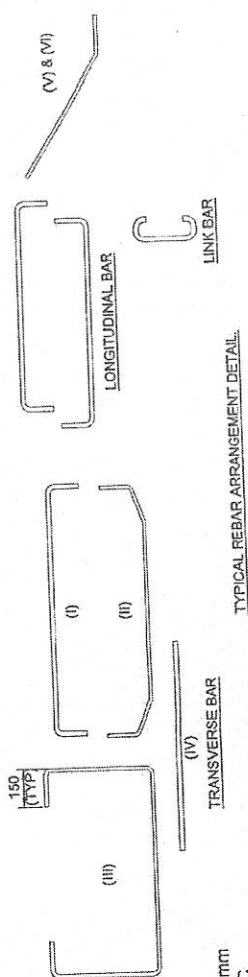
NOTE :-

- ALL DIMENSIONS ARE IN MM.
- CLEAR COVER FOR REINFORCEMENT
TOP AND SIDES - 40MM
BOTTOM - 25MM
- GRADE OF STEEL F6500, GRADE OF CONCRETE M35.
- MSS AS PER MANUFACTURE SPECIFICATION.]
- RAIL INCLINATION 1 IN 20.
- PANDROL FASTENING SYSTEM IS SHOWN INDICATIVELY. 2 BOLTS OR 4 BOLTS CONFIGURATION IS TO BE AS PER SUPPLIER RECOMMENDATION WITH RELEVANT JUSTIFICATION.
- SLAB DEPTH BELOW FASTENER IS TO BE MAINTAINED AT 235mm.
- THE SLAB THICKNESS FOR BOTH TANGENT AS WELL AS CANTED TRACK SHALL BE MAINTAINED MINIMUM 235mm.
- THE DEPTH OF FIRST POUR BASE CONCRETE SHALL BE ADJUSTED TO ACHIEVE THE DESIRED THICKNESS OF MSS TRACK SLAB.
- THIS DRAWING IS VALID FOR TRACK WITH CANT BETWEEN 30mm (INCLUDED) TO 110mm (INCLUDED).
- DRAIN SHOW ARE INDICATIVELY.
- LENGTH OF BARS LONGITUDINAL SHALL BE ADJUSTED SUITABLY AS PER SITE REQUIREMENT.
- LENGTH OF SLAB SHOULD NOT EXCEED 12m. A GAP OF 20MM SHOULD BE MAINTAINED BETWEEN CONSECUTIVE SLABS AND THE GAP FILLED WITH SUITABLE FILLER MATERIAL.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, PLUMBING, DRAINAGE, FIRE FIGHTING AND OTHER RELEVANT INTERFACE DRAWINGS.

BAR SCHEDULE

| BAR MARK | BAR DETAILS |
|------------|--------------|
| (I) | 12@150mm C/C |
| (II) | 12@150mm C/C |
| (III) | 12@150mm C/C |
| (IV) | 12@150mm C/C |
| (V) & (VI) | 12@150mm C/C |

- Shear bar 10 Nos (5 top & 5 bottom) - 12mm
- All Longitudinal bars are 12@150mm C/C
- Link bar 4 Nos - 10mm



TYPICAL REBAR ARRANGEMENT DETAIL

CLIENT:
DELHI METRO RAIL CORPORATION LTD.
Chief Manager
6, Jantar Mantar Road,
New Delhi-110001

| REV. | DATE | BY | DESCRIPTION |
|------|----------|-----|-------------|
| A | 10/02/16 | DRS | First Issue |

| QUALITY ASSURANCE | | | | | | | | | |
|---|----------|------------|----------|--------------------|----------|-----------|----------|----------|----------|
| The responsibility of the design, check and verification of drawings, specifications, and materials, and the coordination and control of the work with the design, construction and the contract. | | | | | | | | | |
| By Designer | | By Checker | | By Project Manager | | By Client | | | |
| DRG | CHK | DRG | CHK | DRG | CHK | DRG | CHK | DRG | CHK |
| 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 | 10/02/16 |

DELHI METRO RAIL PROJECT PHASE - III

| DRAWING TITLE | | TYPICAL CROSS-SECTION OF MSS TRACK SLAB REINFORCEMENT IN CANT 30mm (INCLUDED) TO 110mm (INCLUDED) | |
|----------------|--------------|---|--------------|
| DRAWING NUMBER | SKETCH - 016 | DRAWING NUMBER | SKETCH - 016 |
| CAD FILE | | CAD FILE | |

9/2/2017
12/2/2017