

**JAIPUR METRO RAIL CORPORATION LTD.****Bidding Document - NCB No.- JP/EW/I/JFT-1**

"NCB No.- JP/EW/I/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.1****SUMMARY SHEET**

S. No.	Document	Page No.	Clause No. /Item No.	Addendum/ Corrigendum	Remarks
1.	Invitation for Bid	0-1	Deadline for submission of Bids	Date extended	Replace Page 0-1 with 0-1R
2.	Invitation for Bid	0-1	4.1 (i)	Clause modified	Replace Page 0-1 with 0-1R
3.	Invitation for Bid	0-2	4.1 (ii)	Clause modified & Added	Replace Page 0-2 with 0-2R
4.	Invitation for Bid	0-4	5	Date extended	Replace Page 0-4 with 0-4R
5.	Invitation for Bid	0-5	8	Date extended	Replace Page 0-5 with 0-5R
6.	Part-1 Bidding procedure Section-2 Bid Data Sheet (BDS)	2-2	ITB 7.4	2 <sup>nd</sup> Pre-Bid meeting date	Replace Page 2-2 with 2-2R
7.	Part-1 Bidding procedure Section-2 Bid Data Sheet (BDS)	2-3	ITB 19.1	Bid security amount modified	Replace Page 2-3 with 2-3R
8.	Part-1 Bidding procedure Section-2 Bid Data Sheet (BDS)	2-4	ITB 22.1	Date extended	Replace Page 2-4 with 2-4R
9.	Part-1 Bidding procedure Section-2 Bid Data Sheet (BDS)	2-4	ITB 25.1	Date extended	Replace Page 2-4 with 2-4R
10.	Part-1 Bidding procedure Section-3 Evaluation and qualification criteria (EQC)	3-6	2.4.1	Clause modified	Replace Page 3-6 with 3-6R
11.	Part-1 Bidding procedure Section-3 Evaluation and qualification criteria (EQC)	3-7	2.4.2	Clause modified	Replace Page 3-7 with 3-7R
12.	Part-1 Bidding procedure Section-4 Bidding forms (BDF) -	4-25	Form EXP-1	Clause modified & Added	Replace Page 4-25 with 4-25R

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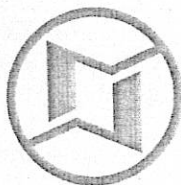
S. No.	Document	Page No.	Clause No. /Item No.	Addendum/ Corrigendum	Remarks
	Vol.-I				
13.	Part-1 Bidding procedure Section-4 Bidding forms (BDF) – Vol.-I	4-26	Form EXP-2	Clause modified & Added	Replace Page 4-26 with 4-26R
14.	Part-1 Bidding procedure Section-4 Bidding forms(BDF) – Vol.-II (Schedules of prices) Part I- General Principles	11	2.2.2 (Item 2)	Clause modified	Replace Page 11 with 11R
15.	Part-1 Bidding procedure Section-4 Bidding forms(BDF) – Vol.-II (Schedules of prices) Part II- Bill of Quantities	29	Item 2	Clause modified	Replace Page 29 with 29R
16.	Part-1 Bidding procedure Section-4 Bidding forms(BDF) – Vol.-II (Schedules of prices) Part II- Bill of Quantities	29	Item 1	Total Quantity modified	Replace Page 29 with 29R
17.	Part-1 Bidding procedure Section-4 Bidding forms(BDF) – Vol.-II (Schedules of prices) Part II- Bill of Quantities	29	Item 2	Total Quantity modified	Replace Page 29 with 29R
18.	Part-II Requirements Section 6- Employer's requirements (ERQ) Vol. II- Particular specifications	PS 29 of 215	6.1.2	Clause modified	Replace Page PS 29 of 215 with PS 29R of 215
19.	Part-III Conditions of Contract and Contract Forms Section 8 – Particular conditions of contract (PCC)	8-19	47	Clause Deleted	Replace Page 8-19 with 8-19R

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**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 30 January 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,



methods, technology or other characteristics as described in Section 6 (Employer's Requirements).

OR

- (ii) Participation in at least two contracts of similar work that have 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 total value of both the works 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, methods, technology or other characteristics as described in Section 6 (Employer's Requirements).

In case of a Joint Venture, all partners must meet requirement as follows:

Either one partner must meet requirement or any two partners must each demonstrate one (1) successfully or substantially completed contract of similar size and nature.

"Similar work" for the contract shall be the work of installation of ballasted /ballastless track on MRTS or main lines of passenger Railway Systems including High Speed Rail.

In addition, the Bidders have past experience of installation of ballastless track length equal to 2 km. on MRTS or main line of passenger system including high speed Rail in last seven year ending on the last day of previous month of tender submission. This experience may be from single work, a sum of experience of ballastless track on multiple works and can be different partners of the bidder in case of JV/Consortium. In case of double/multiple line, each line will be counted separately.

Please note that the experience on ballasted/ballastless track on a system having design axle load less than 12 Tons, or portions of work having design speed less than 70 Kmph or Tramways shall not be considered. Components of ballastless track works in sidings, spurs, steel girder and other non-passenger portions shall also not be considered.

Notes:

1. Value of successfully completed portion of any ongoing work up to period of bid preparation will also be considered for qualification of construction experience criteria. Substantially completed means 80% of the contract value.

- (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 <b><u>30.01.2017</u></b> (between 09:30 hrs and 18:00 hrs) on all working days and on <b><u>30.01.2017</u></b> (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,  
3<sup>rd</sup> 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 **30.01.2017**
- 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.



ITB 7.4	<p>A Pre-Bid meeting shall take place.</p> <p>Date: <b>12.01.2017</b></p> <p>Time: 15:00 hrs</p> <p>Place:</p> <p style="padding-left: 40px;">Jaipur Metro Rail Corporation Limited, 3rd Floor, RSIC building, Udyog Bhawan, Tilak Marg, C-Scheme, Jaipur, Rajasthan, India PIN - 302 005</p> <p>A site visit by the Employer will be conducted on the request of bidder.</p>
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### C. Preparation of Bids

ITB 10.1	The language of the Bid is: English
ITB 11.2 (g)	<p>In accordance with ITB 12 and ITB 14, the schedules shall be submitted with the bid, including the priced Bill of Quantities for admeasurements contracts.</p> <p>The Bidder shall submit with its Technical Bid with the following additional documents:</p> <ul style="list-style-type: none"> <li>i Tender index: The bidder shall include with its bid an index which cross refers all of the employers requirements elaborated in these documents to all the individual sections within this bid for the technical package. The bid package must be clearly presented, all pages number and aid out in a logical sequence with main and sub headings to facilitate evaluation.</li> </ul>
ITB 11.3 (d)	<p>The Bidder shall submit with its Price Bid with the following additional documents:</p> <ul style="list-style-type: none"> <li>i Tender index: The bidder shall include with its bid an index which cross refers all of the employers requirements elaborated in these documents to all the individual sections within this bid for the financial package. The bid package must be clearly presented, all pages number and aid out in a logical sequence with main and sub headings to facilitate evaluation.</li> </ul>
ITB 12.1	<p><b>[For admeasurement contracts:]</b></p> <p>The units and rates in figures entered into the Bill of Quantities and Day work Schedule should be typewritten or if written by hand, must be in print form. Bill of Quantities and Day work Schedule not presented accordingly may be considered nonresponsive.</p>
ITB 13.1	Alternative bids shall not be permitted.
ITB 13.2	Alternative times for completion shall not be permitted.
ITB 13.4	Alternative technical solution shall not be permitted.

ITB 14.5	The price quoted by the bidder shall be fixed.
ITB 15.1	<p>The currencies of the Bid shall be as follows:</p> <ul style="list-style-type: none"> <li>(a) The price shall be quoted either in the currency of the Bidder's home country, or in any fully convertible currency of up to three foreign currencies.</li> <li>(b) A Bidder expecting to incur a portion of its expenditures in the performance of the Contract in more than one currency, and wishing to be paid accordingly, shall so indicate in the Schedule of Prices and the Letter of Price Bid.</li> <li>(c) If some of the contract expenditures related to Design, Installation and Other Services are to be incurred in the Employer's country, such expenditures shall be quoted in either foreign and/or local currency, depending upon the currency in which the costs are to be incurred.</li> <li>(d) Bidders may be required by the Employer to clarify their local and foreign currency requirements, and to substantiate that the amounts included in the Price Schedules are reasonable and responsive to ITB 18.1 in which case a detailed breakdown of its foreign currency requirements shall be provided by the Bidder.</li> <li>(e) During the performance of the contract, the foreign currency portions of the outstanding balance of the Contract Price may be adjusted by agreement between the Employer and the Contractor to reflect any changes in foreign currency requirements for the contract. Any such adjustment shall be effected by comparing the amounts quoted in the bid with the amounts already used in the Facilities and the Contractor's future needs for imported items.</li> </ul>
ITB 18.1	The bid validity period shall be 120 days.
ITB 19.1	The Bidder shall furnish a bid security in the amount of INR 53.00 lakhs (Fifty three lakhs ).
ITB 19.2	The ineligibility period will be: - Not applicable
ITB 19.4	Any bid not accompanied by an irrevocable and callable bid security shall be rejected by the Employer as nonresponsive. However, if a bidder submits a bid security that deviates in form, and/or period of validity, the Employer shall request the Bidder to submit a compliant bid security within 14 days of receiving such a request. Failure to provide a compliant bid security within the prescribed period of receiving such a request shall cause the rejection of the Bid.
ITB 20.1	In addition to the original Bid, the number of copies is:- Two
ITB 20.2	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of : -</p> <p>"An organizational document, board resolution or its equivalent, or power of attorney specifying the representative's authority to sign the Bid on behalf of, and to legally bind, the Bidder. If the Bidder is an intended or an existing joint venture, the power of attorney should be signed by all partners and specify the authority of the named representative of the Joint Venture to sign on behalf of, and legally</p>



	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:</p> <p>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><b>The deadline for bid submission is:</b> Date: <u>30.01.2017</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>30.01.2017</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.

## 2.4 Construction Experience

### 2.4.1 Contracts of Similar Size and Nature

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Participation in at least <b>one contract of similar work</b> that has been successfully or substantially completed within the last seven years <u>ending on the last day of previous months of the tender submission and that is similar to the proposed works</u> , where the value of the Bidder's participation exceeds at least <b>INR 22.62 crore</b> . The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6 (Employer's Requirements).	Must meet requirement	must meet requirement	Not applicable	must meet requirement	Form EXP -1

OR

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Participation in at least <b>two contracts of similar work</b> that have been successfully or substantially completed within the last seven years <u>ending on the last day of previous months of the tender submission and that is similar to the proposed works</u> , where the <b>total</b> value of <b>both the works</b> of the Bidder's participation exceeds at least <b>INR 22.62 crore</b> . The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6 (Employer's Requirements).	Must meet requirement	must meet requirement as follows:  Either one partner must meet requirement or any two partners must each demonstrate one (1) successfully or substantially completed contract of similar size and nature.	Not applicable	Not applicable	Form EXP -1

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## 2.4.2 Construction Experience in Key Activities

(May be complied with by specialist subcontractors. Employer shall require evidence of subcontracting agreement from the Bidder. A specialist subcontractor is a specialist enterprise engaged for highly specialized processes, which the main contractor cannot provide.)

Criteria		Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
<p>For the above or other contracts executed during the period stipulated in 2.4.1 above, a minimum construction experience in the following key activities:</p> <p>Contract shall have the experience for the work of installation of ballasted /ballastless track work on MRTS or main lines of passenger Railway Systems including High Speed Rail System including installation of ballastless track for a minimum length of 2 km.</p> <p>In case of double/multiple line, each line will be counted separately.</p> <p>The experience of installation of tracks on a system having design axle load less than 12 Tons, or portions of work having design speed less than 70 Kmph or Tramways shall not be considered.</p> <p>Components of ballastless track works in sidings, spurs, <u>steel girder</u> fur and other non-passenger portions shall also not be considered.</p>	Must meet requirements	Must meet requirements <sup>a</sup>	Not applicable	Not applicable	Form EXP-2



**Form EXP – 1: Contracts of Similar Size and Nature**

Fill up one (1) form per contract.

Contract of Similar Size and Nature		
Contract No ..... of .....	Contract Identification	
Award Date		Completion Date
Total Contract Amount	US\$	
If partner in a Joint Venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criterion 2.4.1 of Section 3		
	<p>Contract shall have the experience for the work of installation of ballasted /ballastless track work on MRTS or main lines of passenger Railway Systems including High Speed Rail System including installation of ballastless track for a minimum length of 2 km.</p> <p>In case of double/multiple line, each line will be counted separately.</p> <p>The experience of installation of tracks on a system having design axle load less than 12 Tons, or portions of work having design speed less than 70 Kmph or Tramways shall not be considered.</p> <p>Components of ballastless track works in sidings, spurs, <u>steel girder</u> and other non-passenger portions shall also not be considered.</p> <p>Note: In case bidder claims experience for a project undertaken as a member of JV, the particular firm's position in the JV needs to be clearly brought out in the clients' certificate or Joint Venture MOU/Agreement.</p>	

**Form EXP - 2: Construction Experience in Key Activities**

Fill up one (1) form per contract.

Contract with Similar Key Activities		
Contract No ..... of .....	Contract Identification	
Award Date		Completion Date
Total Contract Amount	US\$	
If partner in a Joint Venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
<b>Description of the key activities in accordance with Criterion 2.4.2 of Section 3</b>		
<p>Bidder shall have the experience for the work of installation of ballasted /ballastless track work on MRTS or main lines of passenger Railway Systems including High Speed Rail System including installation of ballastless track for a minimum length of 2 km.</p> <p>In case of double/multiple line, each line will be counted separately.</p> <p>The experience of installation of tracks on a system having design axle load less than 12 Tons, or portions of work having design speed less than 70 Kmph or Tramways shall not be considered.</p> <p>Components of ballastless track works in sidings, spurs, <u>steel girder</u> and other non-passenger portions shall also not be considered.</p> <p>Note: In case bidder claims experience for a project undertaken as a member of JV, the particular firm's position in the JV needs to be clearly brought out in the clients' certificate or Joint Venture MOU/Agreement.</p>		

		<p>b) The purchaser shall appoint Inspecting authority for pre-dispatch/pre-shipment inspection &amp; testing of materials as per approved inspection and testing plan at purchaser's cost. Where no procedure for testing is specified, the supplier shall propose suitable standard or particular procedures for Purchaser's Approval.</p> <p>c) In addition to the inspection and testing by inspecting authority, the purchaser or his authorized representative may also witness the tests and/or conduct test checks to be organized by supplier for validation of test/inspection by inspecting authority. The expense of such tests shall be borne by the supplier.</p> <p>d) Periodically, during the Contract the purchaser/his authorized representative may conduct inspections of manufacturing activities at the premises of the supplier and those of his sub suppliers. Such inspections shall include quality procedure checks, witness inspections, both routine and prototype, and shall also be for the purpose of monitoring progress. During each inspection suitably qualified staff shall be provided by the supplier.</p>
2.2.2	Item 2	<p><b>Clearance and transportation of imported UIC 60 head hardened rails IRS-T-12-2009 18 m long from CIF, Port in India to storage area site in Jaipur including <i>Custom duty</i>, Port handling charges etc.</b></p> <ul style="list-style-type: none"> <li>The supplier shall be responsible for all loading, unloading, including custom clearance, port handling and transportation up to purchaser's area in Jaipur including stacking.</li> <li>The supplier shall obtain insurances completed up to purchaser's storage areas in Jaipur.</li> </ul>
2.2.3	Item 3	<p><b>Manufacturing and Supply of Standard Gauge Turnouts and Scissor - X - Over with UIC 60 rails as per technical specifications and as per drawings approved by purchaser.</b></p>
	Item 3.1	<p><b>1 in 9 turnout (ballastless)</b></p> <p>The price shall include the cost of supplying of Turnouts as per Employer's Requirements, mainly consisting but not limited to:</p> <ul style="list-style-type: none"> <li>Cost of developing, manufacturing &amp; supplying of Turnouts including cost of deployment of all plant, machinery required</li> </ul>



## 2.2 Bill No. SPM 1: Supply of Permanent Way Material

Item no.	Description of Items	Unit	Total Qty.	Rate in INR	Rate in Foreign Currency	Amount in INR	Amount in Foreign Currency
1	Supply of Head Hardened Rails (UIC 60, IRS-T-12-2009, 1080 Grade HH)	MT	506				
2	Clearance and transportation of imported UIC 60 head hardened rails IRS-T-12-2009 18 m long from CIF, Port in India to storage area site in Jaipur including <b>Custom duty</b> & Port handling charges etc.	MT	506				
3	Manufacturing and Supply of Standard Gauge Turnouts and Scissor - X - Over with UIC 60 rails as per technical specifications and as per drawings approved by purchaser						
3.1	1 in 9 turnout (ballastless)	Set	2				
4	Insulated Glued joints						
4.1	Insulated Glued Joints G3 (L) type as per RDSO drg no. T-5843	Nos.	8				
5	Joggled fishplate with Clamps for UIC 60 Rail	Per Joint	20				

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## CHAPTER 6

## MATERIAL &amp; WORKMANSHIP: MATERIALS AND COMPONENTS

6.1 Material6.1.1 **Material to be supplied by the Employer**

Check Rails with bracket and other fittings required for SG Corridor are available in JMRCL Operational Depots/JMRCL Stores within Jaipur. Contractor shall arrange transportation of same from JMRCL Operational Depots/Store to work site of Phases-1B Corridor. No extra payment shall be paid for transfer of these materials.

Spare HH Rails 1080 grade, Turnouts, Fastening and other items supplied under SPM1 are required to be handed over to O&M / Jaipur MRTS. No additional payments shall be made for handling, re-handling, loading unloading, transportation or for any other activities involved while handing over of these spare to O&M / Jaipur MRTS.

6.1.2 **Materials procured by the contractor**

The 1080 grade HH rails, Turnouts with its fittings, MSS, Buffer stop and Fastening System 336 shall be imported by the Contractor as CIF Mumbai port. The contractor shall be responsible for all the remaining activities on arrival of these materials at Mumbai port such as their clearances & taking delivery of these materials including coordination with the customs authorities, shipping lines, port authorities etc. complete. ~~The contractor shall be responsible for project import registration for availing the concessional custom duty.~~ The contractor shall also be responsible for their safe transportation from Mumbai port to site at Jaipur without causing any damage to them duly taking proper care & precaution & following appropriate methods including loading, unloading, local transport and temporary storage at Mumbai (if required), handling / re-handling, coordination with port and transport authorities, obtaining necessary transport permit including demurrage (if any), transit insurance and proper stacking/storage with proper accountal etc. as directed by engineer.

6.2 Rails6.2.1 **Rail Sections**

- 1) The rail section shall be as per Table 1

Table 1

Item	Rail type	Rail profile
(i) Standard Rails on main line	UIC 60, IRS-T-12-2009,	UIC 861-3
(ii) All glued insulated joints on main lines and depot lines	1080 grade, head hardened	
(iii) All turnouts of main line		
Check rails on level crossing,	IRS 52 kg type (may be second hand released rails)	IRS 52 kg type

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		contractor submits policy for shorter period /annual renewable policy, the same shall be renewed before its expiry date. In such situation, the performance guarantee (5% of contract value) shall be retained till required validity period. The contractor's submission of such shorter period /renewable policy shall be constructed as their irrevocable consent for retention of the performance guarantee.
46	Additional Clause	<b>Extension of time of completion</b> The site shall be made available progressively and if some part is not made available then the extension of time shall be allowed only to the work/KD of that particular part.
47	Additional Clause	<del>"Similar work" for this contract shall be the work of installation of ballasted /ballastless track work on MRTS or main lines of passenger Railway Systems including High Speed Rail System including installation of ballastless track for a minimum length of 2 km.</del> <del>In case of double/multiple line, each line will be counted separately.</del> <del>The experience of installation of tracks on a system having design axle load less than 12 Tons, or portions of work having design speed less than 70 Kmph or Tramways shall not be considered.</del> <del>Components of ballastless track works in sidings, spurs and other non-passenger portions shall also not be considered. <b>DELETED</b></del>