

## HARYANA RAIL INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

(A Joint Venture Govt. of Haryana and Ministry of Railways)

Plot no.143, Railtel Tower, Sector-44, Floor/ Room number: 5th floor, City: Gurugram, Zip code: 122003, Country: INDIA

Telephone: +91 9311478893, E-mail: [horc.etendering@gmail.com](mailto:horc.etendering@gmail.com)

**Tender No.:** HORC/HRIDC/T-1/2022

**Date:** 22.04.2022

**Reference:** Specific Procurement Notice dated 05.04.2022.

### CORRIGENDUM NO. 1

**Name of Work:** T-1: Laying of Track and track related works including supply of ballast, special sleepers, switches and crossings track fittings but excluding supply of Rails and line Sleepers in connection with laying of New BG Double Railway Line of HORC project from Km 32.00 to Km 61.5 and its connectivities to IR Network from Manesar to Patli Stations and New Patli to Patli & New Patli to Sultanpur Stations.

S. No.	Tender Document Part / Section/ Clause No.	Description of Existing Clause	Modified Description of Existing Clause / New Clause
1.	Financial Part	Financial Part	Existing Financial Part including BOQ is replaced and annexed as "Attachment-1" of this Corrigendum No. 1
2.	BQQ Excel Sheet	Bill of Quantities for quoting percentage rate against each Bill (MS Excel File).	Existing Bill of Quantities for quoting percentage rate against each Bill (MS Excel File) is replaced in this Corrigendum No. 1
3.	Specific Procurement Notice (SPN), Table, <b>Estimated Value of Tender</b>	INR 954.50 million	INR 958.20 million
4.	Part 1, Section II, TDS, Sub-Clause ITT 4.1	<b>Add the following after the last sentence of Clause 4.1</b> Lead Member must have majority share participation in the JV. No change in constitution or percentage share shall be permitted at any stage after the Tender submission, failing which the Tenderer shall be treated as nonresponsive.	<b>Existing TDS ITT 4.1 is replaced with the following:</b> Add the following after the last sentence of Clause 4.1 Lead Member must have majority share participation in the JV. No change in constitution or percentage share shall be permitted at any stage after the Tender submission, failing which the Tenderer shall be treated as nonresponsive.

S. No.	Tender Document Part / Section/ Clause No.	Description of Existing Clause	Modified Description of Existing Clause / New Clause
		Authorized Representative of JV/Consortium shall be from Lead Member of JV/Consortium.	Authorized Representative of JV/Consortium shall be from Lead Member of JV/Consortium.  ID created on <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a> . must be in the name of Tenderer. In case of JV/Consortium ID must be in the name of JV/Consortium. Digital Signature (signing authority) must be in the name of Authorised representative of the Tenderer or JV/Consortium.
5.	Part 1, Section III, EQC, Sub-Clause 3.3.1 (ii)	(ii) The Tenderers 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 i.e. its minimum financial resources specified in Form FIN – 3.3.3 shall be three times the total monthly financial resources requirement for its current contract commitments/ Works in progress specified in Form FIN – 3.3.4.	ii) The Tenderers 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 i.e. its minimum financial resources specified in Form FIN – 3.3.3 ( <i>Para (II)</i> ) shall be <i>equal to or more than</i> the total monthly financial resources requirement for its current contract commitments/ Works in progress specified in Form FIN – 3.3.4.
6.	Part 1, Section IV, Letter of Tender-Technical Part	Letter of Tender-Technical Part	The existing Letter of Tender-Technical Part is replaced and annexed as “Attachment -2” of this Corrigendum No. 1.
7.	Part 1, Section IV, Tender Form FIN 3.3.3	Form FIN 3.3.3: Financial Resources	The existing Form FIN 3.3.3 is replaced and annexed as “Attachment -3” of this Corrigendum No. 1.

**Attachment 1  
to  
Corrigendum No. 1  
Financial Part/ R1**

**Tender No. HORC/HRIDC/T-1/2022**

## Letter of Tender – Financial Part

***INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT***

*The Tenderer must prepare this Letter of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.*

*Note: All italicized text is to help Tenderers in preparing this form.*

**Date of this Tender submission:** *[insert date (as day, month and year) of Tender submission]*

**Tender No.:** *[insert tender reference number]*

**Alternative No.:** *[insert reference number if this is a Tender for an alternative]*

**To:** *[insert complete name of Employer]*

We, the undersigned, hereby submit the second part of our Tender, the Tender Price and Bill of Quantities. This accompanies the Letter of Tender – Technical Part.

In submitting our Tender, we declare that:

- (a) **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (b) **Tender Price:** The total price of our Tender is: *[insert the total price of the Tender in words and figures in INR];*
- (c) **Commissions, Gratuities, Fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

*(If none has been paid or is to be paid, indicate "none.")*

**Name of the Tenderer:** \* *[insert complete name of the Tenderer]*

**Name of the person duly authorized to sign the Tender on behalf of the Tenderer:** \*\**[insert complete name of person duly authorized to sign the Tender]*

**Title of the person signing the Tender:** *[insert complete title of the person signing the Tender]*

**Signature of the person named above:** *[insert signature of person whose name and capacity are shown above]*

**Date signed** *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

\*: In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer

\*\* : Person signing the Tender shall have the power of attorney given by the Tenderer. The power of attorney shall be attached with the Letter of Tender.

## Appendix A to Financial Part

### 1. Schedule of Cost Indexation

The formulae for price adjustment shall be as follows:

$$P_n = a + b \frac{L_n}{L_o} + c \frac{S_n}{S_o} + d \frac{C_n}{C_o} + e \frac{M_n}{M_o} + f \frac{PM_n}{PM_o} + g \frac{F_n}{F_o}$$

where:

“P<sub>n</sub>” is the adjustment multiplier to be applied to the estimated contract value in the relevant currency of the work carried out in period “n”, this period being a month unless otherwise stated in the Contract Data;

“a” is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

“b”, “c”, “d”, “e”, “f”, “g” are coefficients representing the estimated proportion of Labour, Steel components (including HTS strands and wires), Cement, Materials other than Cement and Steel, Plant, Machinery & Spares and Fuel & Lubricants respectively related to the execution of the Works as stated in the relevant table of adjustment data;

“L<sub>n</sub>”: Consumer Price Index for Industrial Workers – All India: Published in R.B.I Bulletin on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates);

“L<sub>o</sub>”: Consumer Price Index for Industrial Workers – All India: Published in R.B.I Bulletin on the Base Date;

“S<sub>n</sub>”: Whole Sale Price Index for ‘MS Wire rods’ individual commodity of group item (d) Mild Steel- Long products under (N) MANUFACTURE OF BASIC METAL, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT) on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates);

“S<sub>o</sub>”: Whole Sale Price Index for ‘MS Wire rods’ individual commodity of group item (d) Mild Steel- Long products under (N) MANUFACTURE OF BASIC METALS, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry Department for Promotion of Industry and Internal Trade (DPIIT) on the Base Date;

“C<sub>n</sub>”: Wholesale Price Index of Sub-Group “Cement, Lime & Plaster” as published in R.B.I Bulletin on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates);

“C<sub>o</sub>”: Wholesale Price Index of Sub-Group “Cement, Lime & Plaster” as published in R.B.I Bulletin on the Base Date;

“M<sub>n</sub>”: Wholesale Price Index - All Commodities as published in R.B.I Bulletin on the date 49 days

prior to the last day of the period (to which the particular Payment Certificate relates);

“Mo”: Wholesale Price Index - All Commodities as published in R.B.I Bulletin on the Base Date;

“PMn”: Whole Sale Price Index for the category ‘k. Machinery for mining, Quarrying and Construction under (R) MANUFACTURE OF MACHINERY AND EQUIPMENT, published by Office of Economic Adviser, Govt. of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT), on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates);

“PMo”: Whole Sale Price Index for the category ‘k. Machinery for mining, Quarrying and Construction under (R) MANUFACTURE OF MACHINERY AND EQUIPMENT, published by Office of Economic Adviser, Govt. of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT) , on the Base Date;

“Fn”: Wholesale Price Index- By Groups and Sub-Groups for the group Fuel & Power as published in R.B.I Bulletin on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates) and

“Fo”: Wholesale Price Index- By Groups and Sub-Groups for the group Fuel & Power as published in R.B.I Bulletin on the Base Date.

**Note:**

*Base Date is as defined in Sub-Clause 1.1.4 of GCC i.e. 28 days prior to the deadline for submission of Tender.*

## 2. Schedule of Adjustment Data

Table A provides the coefficients/details to Local currency.

**Table A. Local Currency**

<b>Index Code</b>	<b>Index Description</b>	<b>Source of Index</b>	<b>Base Value and Date</b>	<b>Weighting</b>
A	Non-Adjustable	-	-	a: 0.15
L	Labour	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	b: 0.25
S	Steel components (including HTS strands and wires)	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	c: 0.15
C	Cement	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	d: 0.05
M	Materials other than Cement and Steel	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	e:0.20
PM	Plant, Machinery & Spares	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	f: 0.10
F	Fuel & Lubricants	As specified in Clause 1 of Appendix A to Financial Part	As specified in Clause 1 of Appendix A to Financial Part	g:0.10
<b>Total</b>				<b>1.00</b>



**Table B. Foreign Currency (FC)**

Not applicable as Tenderer's are required to quote rates and prices only in INR.

**Table C. Summary of Payment Currencies**

Not applicable. The payment shall be made in INR only.

## **Appendix B to Financial Part: Bill of Quantities**

### **1. Preamble**

- 1.1 The Bills of Quantities (BOQ) shall be read in conjunction with the Instructions to Tenderers, the General Conditions of Contract, the Particular Conditions of Contract, the General Specifications, the Technical specifications, the Drawings and the Addenda (if any).
- 1.2 The quantities given in the Bills of Quantities are estimated and provisional and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
- 1.3 The rates quoted in the priced Bill of Quantities are for complete and finished items of the work in all respects. The rates and prices shall, except in so far as it is otherwise provided under the Contract, shall include all necessary survey work, plants, tools, machinery, labour, compliance of labour laws, supervision, materials, transportation, handling, loading & unloading, storage, sampling, testing, fuel, oil, consumables, electric power, water, all leads & lifts, dewatering, all temporary works including temporary accesses, staging, form works and false works, stacking, provision and maintenance of all temporary works area, construction of temporary store and buildings, fencing, barricading, lighting, drainage arrangements, erection & maintenance of inspection facilities above and below ground such as brick, concrete and steel etc.), restatement, remedy of any defects during the Defects Notification Period, safety measures for workmen and road users, preparation of design and drawings pertaining to temporary works, & traffic diversion works, mobilisation and demobilisation, establishment and overhead charges, labour camps, insurance cost for labour and works, contractor's profit, all taxes including GST, insurance, royalties, duties, cess, octroi, other levies and other charges together with all general risks, liabilities and obligations set out or implied in the Contract.
- 1.4 The cost of all the items as detailed in the General Specifications and the Technical Specifications shall be deemed to have been included in the rates and prices in the priced Bill of Quantities unless otherwise specified in the Contract.
- 1.5 General directions and descriptions of work and materials are not necessarily repeated nor summarised in the Bills of Quantities. References to the relevant sections of the Contract Documents shall be made before entering rates and prices in the priced Bill of

## Quantities.

- 1.6 Provisional Sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer, except for the Provisional Sum for the cost of the DB which requires no prior instruction from the Engineer in accordance with Sub-Clauses 13.4 [Provisional Sums] of the General Conditions.
- 1.7 The whole cost of complying with the provisions of the Contract shall be included in Bill Nos. in the priced Bill of Quantities.
- 1.8 The description of items in the BOQ are not exhaustive, and hence the Contractor shall be required to execute all necessary works required for completion of the concerned item of the BOQ in accordance with the Contract.
- 1.9 The rates shall be quoted percentage Excess (+)/ Less (-) against each Bill No. in the Bill of Quantities (Excel Workbook) uploaded on the e-procurement portal.
- 1.10 The rates quoted shall be comprehensive and must include cost for complying in all respects with the Bill of Quantities, Instruction to Tenderers, the General Conditions, the Particular Conditions, Specifications and Drawings and for all matters and things necessary for the proper construction, completion, and making good of any defect in of the whole of the Works.
- 1.11 No claims for additional payment will be allowed for any error or misunderstanding by the Contractor of the work involved.

## **2. Provisional Sums including Provision Sum for Contingency**

Provisional Sums shall be used as per Sub-Clause 13.4 [Provisional Sums] of the General Conditions.

## **3. Measurement and Payment**

- 1.1 The measurement shall be made as per Bill of Quantities, the General Specifications, the Technical Specifications, the Drawings and other relevant provisions of the Contract.

## **4. Procedures for Payment**

- 4.1 The Employer shall make interim payments to the Contractor in accordance with the provisions of Sub-Clause 14.7 [Issue of Interim Payment Certificates] of the General Conditions, as certified by the Engineer on the basis of the progress achieved for the items of works/stages of the works.
- 4.2 The Contractor shall base his claim for interim payment in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates] of the General Conditions for various items of work on the basis of actual progress of work executed till the end of the month

for which the payment is claimed in relation to the Contractor's total executed quantity, supported with documents and updated programme in accordance with the Works Requirements.

- 4.3 The Employer may carry out necessary test checks, either directly or through an independent agency, of the Works done by the Contractor for which payment has been accepted and certified by the Engineer. The payment shall depend upon the outcome of such test checks.
- 4.4 Format for the Contractor's application for payment shall be agreed between the Engineer and the Contractor.
- 4.5 All necessary supplementary details to support progress claims, including all certified Request for Inspection in hard bound copy, shall be included with application for payment. Sketches, drawings, approvals, calculations, test reports etc. shall accompany an application for payment to be substantiated by the Contractor, certified by the Engineer and submitted to the Employer.
- 4.6 Even if no work is executed during the month, or the Contractor does not choose to issue an application for payment, a 'NIL' application shall be submitted.
- 4.7 The Employer may deploy external agencies, other than the Engineer, to cross check the work done by the Contractor. If at a later stage it is discovered that excess payment has been released to the Contractor or the work is found to be defective, suitable recoveries would be affected from the first available bill of the Contractor.

## **5. Methodology for Claiming Payment**

- 5.1 The Contractor shall prepare his monthly application for payment in the agreed format in two hard copies and one soft copy. This shall be accompanied by supplementary details in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates] of the General Conditions. All hard copies shall bear the original signatures of the Contractor's Representative and be submitted to the Engineer.
- 5.2 If these are found in order, in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] of the General Conditions, then the Engineer shall forward two certified copies of the application along with certified supplementary details to the Employer, with his recommendation for payment; otherwise, all documents shall be returned to the Contractor for rectification and resubmission.

## **6. Work Items**

The Bill of Quantities contains the following Bill Nos.,  
Bill No. 1: Ballast Supply

- Bill No. 2: P. Way Supply (Special PSC Sleepers)
- Bill No. 3: P. Way Supply (Rubber Pads)
- Bill No. 4: P. Way Supply (Other than Steel Items-Misc.)
- Bill No. 5: P. Way Supply (Steel Items- ERC)
- Bill No. 6: P. Way Supply (Steel Items- Switches)
- Bill No. 7: P. Way Supply (Steel Items- Metal Liners)
- Bill No. 8: P. Way Supply (Steel Items- CMS Crossing)
- Bill No. 9: P. Way Supply (Steel Items-Misc)
- Bill No. 10: P. Way Linking (Track Installation)
- Bill No. 11: P. Way Linking (Training out of Ballast)
- Bill No. 12: P. Way Linking (Transportation of Rails and Sleepers)
- Bill No. 13: P. Way Linking (Installation-Misc.)
- Bill No. 14: P. Way Linking: Supply and Installation Works-Misc.

# Bill of Quantities

(Please refer BOQ on e-procurement portal)

<input type="button" value="Validate"/> <input type="button" value="Print"/> <input type="button" value="Help"/>		<b>Item Rate BoQ</b>							
<b>Tender Inviting Authority:</b> Haryana Rail Infrastructure Development Corporation Ltd									
<b>Name of Work:</b> Laying of Track and track related works including supply of ballast, special sleepers, switches and crossings track fittings but excluding supply of Rails and line Sleepers in connection with laying of New BG Double Railway Line of HORC project from Km 32.00 to Km 61.5 and its connectivities to IR Network from Manesar to Patli Stations and New Patli to Patli & New Patli to Sultanpur Stations									
<b>Contract No:</b> HORC/HRIDC/T-1/2022									
<b>Name of the Bidder/ Bidding Firm/ Company:</b>									
<b>Bill Nos. (R1)</b> (NATIONAL COMPETITIVE TENDERING - RATES ARE TO BE GIVEN IN RUPEES (INR) ONLY)									
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Tenderers are allowed to fill the relevant columns with their own Name and Values only)									
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT	NUMBER #	NUMBER #	UNIT
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Estimated Rate in Rs. P	Excess(+)/ Less(-)	PERCENTAGE RATE (%) to be entered by the Bidder	TOTAL AMOUNT With Taxes	Remarks
1	Bill No. 1: Ballast Supply	item1	1.00	Nos	34,27,70,000.00	Select			
2	Bill No. 2: P. Way Supply (Special PSC Sleepers)	item2	1.00	Nos	7,10,88,876.00	Select			INR Zero Only
3	Bill No. 3: P. Way Supply (Rubber Pads)	item3	1.00	Nos	3,55,84,303.13				INR Zero Only
4	Bill No. 4: P. Way Supply (Other than Steel Items-Misc.)	item4	1.00	Nos	84,19,900.00				INR Zero Only
5	Bill No. 5: P. Way Supply (Steel Items- ERC)	item5	1.00	Nos					INR Zero Only
6	Bill No. 6: P. Way Supply (Steel Items- Switches)	item6	1.00	Nos		Select			INR Zero Only
7	Bill No. 7: P. Way Supply (Steel Items- Metal Liners)	item7	1.00	Nos	3,48,66,000.00	Select			INR Zero Only
8	Bill No. 8: P. Way Supply (Steel Items- CMS Crossing)	item8	1.00	Nos	3,21,80,407.00	Select			INR Zero Only
9	Bill No. 9: P. Way Supply (Steel Items-Misc.)	item9	1.00	Nos	2,44,05,915.00	Select			INR Zero Only
10	Bill No. 10: P. Way Linking (Tie)	item10	1.00	Nos	7,38,45,950.00	Select			INR Zero Only
11	Bill No. 11: P. Way Linking (Installation-Misc.)	item11	1.00	Nos	5,66,89,500.00	Select			INR Zero Only
12	Bill No. 12: P. Way Linking (Transportation of Rails and Sleepers)	item12	1.00	Nos	4,33,42,200.00	Select			INR Zero Only
13	Bill No. 13: P. Way Linking (Installation-Misc.)	item13	1.00	Nos	6,16,36,150.00	Select			INR Zero Only
14	Bill No. 14: P. Way Linking: Supply and Installation Works-Misc.	item14	1.00	Nos	1,81,45,868.00	Select			INR Zero Only
<b>Total in Figures</b>									-
<b>Quoted Rate in Words</b>									INR Zero Only

\*Tenderer is only required to fill the information in the boxes highlighted with cyan colour in BOQ (Excel sheet)

**Bill No. 1 : Ballast Supply /R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
1	NS-1	Supply of Ballast				
1 (a)	NS-1(a)	Supply of machine-crushed stone ballast on cess as per RDSO specifications for track ballast: IRS-GE-1 of June, 2016 from outside railway limits stacked in specified quantities alongside the proposed alignment on either side of track, in yards and at locations as per site requirement as directed by the Engineer. Note 1: Payment will be made on actual stack measurement for gross quantities without any deduction for voids in following stages: (i) 95% on receipt at site, acceptance, measurement, account, proper storage and protection against loss, damage or deterioration; and (ii) balance 5% after training out. Note 2: i) Wherever sufficient railway land is not available, contractor will have to arrange land for supply and stacking of ballast at his own cost for which extra payment as per item no. NS-1 (b) will be admissible. ii) The rate also includes levelling, dressing of ground for stacking of ballast.	90000.00	Cum	1646.00	148140000
1 (b)	NS-1(b)	Extra over item No. NS-1 (a) if ballast is to be stacked in private land in case of sufficient HORCL land is not available	20000.00	Cum	40	800000
1 (c)	NS-1(c)	Supply of machine-crushed stone ballast in depot as per RDSO specifications for track ballast: IRS-GE-1 of June, 2016 from outside railway limits duly stacked. Note 1: Payment will be made on actual stack measurement for gross quantities without any deduction for voids in following stages: (i) 95% on receipt at site, acceptance, measurement, account, proper storage and protection against loss, damage or deterioration; and (ii) balance 5% after training out. Note 2: The rate also includes levelling, dressing of ground for stacking of ballast. Note 3 : The ballast is to be supplied in the earmarked plots of depots at proposed Dhulawat, Chandla Dungerwas, Manesar and New Patli stations.	130000.00	Cum	1491.00	193830000
<b>Total for Bill No. 1</b>						<b>342770000.00</b>



**BILL No.2: P.WAY SUPPLY (SPECIAL PSC SLEEPERS)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
2	NS-2	Supply of Special PSC Sleepers				
2(a)	NS-2(a)	Supplying at site of work including leading, loading, unloading and stacking PSC turnout sleepers and approach sleepers for fanshaped layout of 60 Kg 1 in 12 turnout for B.G 60 Kg. (UIC) rail to RDSO Drg. No. T-4218 (for general layout) and drawings thereof with latest alterations if any , complete set with contractor's labour, materials, tools & Plant, equipment and machinery, transport etc complete .	70	Set	698344.00	4,88,84,080.00
2 (b)	NS-2(b)	Supplying at site of work including leading, loading, unloading and stacking PSC turnout sleepers and approach sleepers for fanshaped layout of 60 Kg 1 in 8.5 turnout for B.G 60 Kg. (UIC) rail to RDSO Drg. No. T-4865 (for general layout) and drawings thereof with latest alterations if any , complete set with contractor's labour, materials, tools & Plant, equipment and machinery, transport etc complete .	7	Set	470110.00	32,90,770.00
2 (c )	NS-2(c)	Supplying at site of work including leading, loading, unloading and stacking of special PSC Monoblock Sleepers (pre-tensioned type) for B.G. 1 in 8½ Derailing Switch as per RDSO Drg. No.-T-6068 to suite 60 kg rails as per RDSO Design and IRS Specifications No. T-45-96 (2nd Edition) as amended from time to time with contractor's labour, materials, tools & Plant, equipment and machinery, transport etc complete .	3	Set	248478.00	7,45,434.00
2 (d)	NS-2(d)	Supplying at site of work including leading, loading, unloading and stacking PSC sleepers for SEJ as per RDSO Drawing No. T-4149 for 60 kg rail.	74	set	32913.00	24,35,562.00
2 (e )	NS-2(e)	Supplying at site of work including leading, loading, unloading and stacking of special PSC wider base sleepers for bridges with provision for guard rails as per RDSO Drawing No. T-8672 for 60 KG rail.	2800	Each	5071.00	1,41,98,800.00
2 (f)	NS-2(f)	Supplying at site of work including leading, loading, unloading and stacking of special PSC wider base sleepers for bridge approaches with provision for guard rails as per RDSO Drawing No. T-8673 to T-8680 for 60 KG rail.	30	Set	51141.00	15,34,230.00
<b>Total for Bill No. 2</b>						<b>7,10,88,876.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the employer's / Engineer's Representative, required for maintenance purposes.

**BILL No.3: P. WAY SUPPLY (Rubber Pads)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>3</b>	<b>NS-3</b>	<b>Supply of Rubber Pads</b>				
3 (a)	NS-3(a)	Supply of 10 MM thick Composite Grooved Rubber Sole Plate (CGRSP) to RDSO Drg. No. T-8528 for wider sleepers	270000	Each	107.00	2,88,90,000.00
3 (b)	NS-3(b)	Supply of GRSP Set for Turnout 1 in 12 with Thick Web Switch (TWS) 60 Kg (as contained in three drawings of Layout assembly, Switch and Crossing- RDSO Drg. No. T-6154, T-6155 & T-4220) complete set as per IRS specifications for placing Grooved Rubber Sole Plate beneath rails No. T-47-2006 with up to date corrigendum, if any.	70	Set	75215.00	52,65,050.00
3 (c)	NS-3(c)	Supply of Grooved Rubber Sole Plates for Turnout 1 in 12 for layout drawing no. T-4218 with latest alterations if any, complete set for the turnout as per IRS specifications for Grooved Rubber Sole Plates (6mm thick) for placing beneath rails Sl.no. T-47-2006 with up to date corrigendum, if any. Note: Details of GRSP are contained in three drawings of Layout assembly, Switch and Crossing- RDSO Drg. No. T-4218, T-4219 & T-4220 respectively	10	Set	75215.00	7,52,150.00
3 (d)	NS-3(d)	Supply of Grooved Rubber Sole Plates for Turnout 1 in 8 1/2 for layout drawing no. T-4865 with latest alterations if any, complete set for the turnout as per IRS specifications for Grooved Rubber Sole Plates (6mm thick) for placing beneath rails Sl.no. T-47-2006 with up to date corrigendum, if any. Note: Details of GRSP are contained in three drawings of Layout assembly, Switch and Crossing- RDSO Drg. No. T-4865, T-4966 & T-4967 respectively	7	Set	57310.00	4,01,170.00
3 (e)	NS-3(e)	Supply of GRSP Set for 60 Kg Derailing Switch(as contained in the drawing of Derailing Switch - RDSO Drg. No. T-6068) complete set as per IRS specifications for placing Grooved Rubber Sole Plate beneath rails No. T-47-2006 with up to date corrigendum, if any.	3	Set	9377.71	28,133.13
3 (f)	NS-3(f)	Supply of GRSP 6 mm thick for SEJ as per RDSO Drg. No. T-4159	1050	Each	236.00	2,47,800.00
<b>Total for Bill No. 3</b>						<b>3,55,84,303.13</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the employer's /Engineer's Representative, required for maintenance purposes.

**BILL No.4: P.WAY SUPPLY (Other than Steel items-Misc.)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
4	NS-4	<b>Supply of Guard Rails of 60 Kg, 52 Kg rail sections</b> for ballasted deck bridges including all fittings (excluding rail screw ) required as per RDSO drawing. Rails will be issued free of cost by the Employer.	3800	Meter	535.00	20,33,000.00
5	NS-5	Manufacturing and Supply of heavy duty BG motor trolley (Diesel) fit for track circuiting with all accessories at project site as per the instructions of Engineer-in-charge. The heavy duty motor trolley should be of the following specification: 1. The chassis of the trolley should be of size 1800 mm X 2000 mm (approx.) made of heavy steel section. 2. The wheel dia should be 400 mm 3. The wheel base should be 1200 mm. 3. The axle length should be approx. 1.86 m. 4. The minimum carrying capacity of the trolley should be approximately 1 MT including man and material. 5. The Diesel Engine capacity should be at least 9-10 HP at 3600 RPM. 6. It should have seating capacity for at least 8 persons. 7. The trolley should be able to run up to a speed of 40 to 50 KMPH on level track. 8. The brake should be mechanically adjustable hand brakes. 9. The fuel tank capacity (Diesel) should be 5 -6 lts. 10. The battery should be of 12 volts for efficient lighting arrangements and for instant self start. 11. The trolley should consist of foot rest. 12. The approximate weight of the trolley should not be more than 350 kg. 13. The seats should be provided with 4" cushion with rexine cover. 14. The trolley should be provided with separate turn-able type Driver's seat for ease of driving in reverse direction.	1	Each	524636.00	5,24,636.00
6	NS-6	Manufacturing and Supply of BG push trolley fit for track circuiting with all accessories at project site as per the instructions of Engineer-in-charge. The push trolley should be of the following specifications. 1. The chassis frame and seats/bench made from RHS Steel section. 2.The trolley roof should be collapsible with water proof material. 3. The axles should be made of steel insulated at wheels. 4. The trolley lifting arrangement should be with handles provided for easy handling. 5. The trolley should be detachable in parts for ferrying it on train. 6. The trolley should be provided with box to carry SSE/P.Way materials and attachments for carrying gauge cum level instrument.	3	Each	156420.00	4,69,260.00
7	NS-7	Manufacturing and supply of Self Propelled Light Weight Trolley as per RDSO Specification No. TM/SM/28 Rev. 01 of 2004 with latest amendment	2	Each	153664.00	3,07,328.00
8	NS-8	Supply of GFN Liners to RDSO Drg. No. T-3706.	28700	Each	18.00	5,16,600.00
9	NS-9	Supply of GFN Liners (60 Kg) to RDSO Drg. No. T-6938 and T-6939 for wider sleepers	13400	Set	52.00	6,96,800.00
10	NS-10	Supply of End cut GFN liner - 60 kg to RDSO Drg. No. T-6938 and T-6939. Note-End cut is to be done for glued joint as per RDSO drawing No. T-4511 with latest alteration complete.	2500	set	52.00	1,30,000.00
11	NS-11	<b>Supply of glued insulated rail joints G3 L 6.5 M</b> long with 10 MM thick end post on PSC sleepers for 60 Kg rail section as per RDSO Drg No. T-2572. Rails will be issued free of cost by the Employer @ 6.5 M for each joint.	175	Each	21385.00	37,42,375.00
<b>Total for Bill No. 4</b>						<b>84,19,999.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.

c) Quality Assurance documents.

d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's /Engineer's Representative, required for maintenance purposes.

<b>Bill No. 5: P.WAY SUPPLY (Steel Items- ERC)/R1</b>						
<b>S. No.</b>	<b>NS item No</b>	<b>Description of Item</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate in INR</b>	<b>Amount (INR)</b>
<b>12</b>	<b>NS-12</b>	<b>Supply of ERC</b>				
12 (a)	NS-12(a)	Supply of ERC MK -V to RDSO Drg. No.T-5919	600000	Each	132	79200000
12 (b)	NS-12(b)	Supply of ERC "J" to RDSO Drg. No.T-8258	10000	Each	135	1350000
<b>Total for Bill No.5</b>						<b>8,05,50,000.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's / Engineer's representative, required for maintenance purposes.

**Bill No. 6: P.WAY SUPPLY (Steel Items- Switches)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>13</b>	<b>NS-13</b>	<b>Supply of Switches</b>				
13 (a)	NS-13(a)	Supply of 60 kg 1 in 12, 10125 mm thick web switches confirming RDSO Drg. No. T-6154 /T- 6155 with latest alterations, if any complete with all parts as listed in the drawing with check rails (excluding fish plates, Fish bolts & nuts, GRSPs, Liners and ERCs). Notes: 1) Rails required for fabrication of stock rails will be issued free of cost by the Employer. 2) Asymmetric rails required for fabrication of TWS will be arranged by the Contractor and is included in the cost of the item.	70	Set	776660.90	54366263
13 (b)	NS-13(b)	Supply of 60 kg 1 in 12, 10125 mm O.R. curved switches confirming RDSO Drg. No. T-4218 /T- 4219 with latest alterations, if any complete with all parts as listed in the drawing with check rails (excluding fish plates, Fish bolts & nuts, GRSPs, Liners and ERCs). Note: Rails will be issued free of cost by the employer.	10	Set	302101	3021010
13 (c)	NS-13(c)	Supply of 60 kg 1 in 8.5, 6400mm Overriding Curved Switch confirming to RDSO Drg. No. T-4965/T-4966 with latest alteration, if any complete with all parts as listed in the drawing with check rails (excluding fish plates, Fish bolts & nuts, GRSPs, Liners and ERCs). Note: Rails will be issued free of cost by the Employer.	6	Set	150009	900054
13 (d)	NS-13(d)	Supply of 60 kg 1 in 8.5, 6400mm Overriding Curved Switch for symmetrical split layout confirming to RDSO Drg. No. T-5353/T-5354 with latest alteration, if any complete with all parts as listed in the drawing with check rails (excluding fish plates, Fish bolts & nuts, GRSPs, Liners and ERCs). Note: Rails will be issued free of cost by the Employer.	1	Set	150009	150009
13 (e)	NS-13(e)	Supply of 60 KG 1 in 8½ Derailing Switch conforming to RDSO Drg No. 6068 with latest alteration, if any complete with all parts as listed in the drawing including GRSPs (excluding fish plates, fish bolts & nuts, Liners and ERCs). Note: Rails will be issued free of cost by the employer.	3	Set	101943	305829
13 (f)	NS-13(f)	<b>Fabricating &amp; supplying of 60 Kg improved SEJ</b> with 80mm max. gap as per Drawing No. RDSO/T-6902 with latest alteration including all fixtures and fastenings etc. complete as directed by Engineer-in-charge. Rails will be supplied free of cost by the Employer.	75	Set	212881	15966075
<b>Total for Bill No.6</b>						<b>7,47,09,240.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's / Engineer's representative, required for maintenance purposes.

**Bill No. 7: P.WAY SUPPLY (Steel Items- Metal Liners)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>14</b>	<b>NS-14</b>	<b>Supply of Metal Liners</b>				
14 (a)	NS-14(a)	Supply of Metal Liners for use with ERC MK-V on 25 T concrete sleepers to RDSO Drg. No. T-8616 and T-8617	265000	Set	124	32860000
14 (b)	NS-14(b)	Supply of Metal Liners to RDSO Drg No. T-3740	42000	Each	33	1386000
14 (c)	NS-14(c)	Supply of MS Cut liner to RDSO Drg. No. T-8616/T-4511 and T-8617/T-4511	5000	Set	124.00	620000
<b>Total for Bill No.7</b>						<b>3,48,66,000.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's / Engineer's representative, required for maintenance purposes.

**Bill No. 8: P.WAY SUPPLY (Steel Items-CMS crossing)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>15</b>	<b>NS-15</b>	<b>Supply of CMS crossing</b>				
15 (a)	NS-15(a)	Supply of 60 kg CMS Crossing for 1 in 8 ½ PSC Layout conforming to RDSO Drg No. T-4967 with latest alterations complete with all parts as listed in the drawing (excluding fish plates, fish bolts & nuts, GRSPs, Liners and ERCs).	7	Set	344911	2414377
15 (b )	NS-15(b)	Supply of 60 kg CMS Crossing for 1 in 12 PSC Layout conforming to RDSO Drg. No. T-4220 with latest alterations complete with all parts as listed in the drawing (excluding fish plates, fish bolts & nuts, GRSPs, Liners and ERCs).	70	Set	425229	29766030
<b>Total for Bill No.8</b>						<b>3,21,80,407.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's / Engineer's representative, required for maintenance purposes.



**Bill No. 9: P.WAY SUPPLY (Steel Items-Misc.)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
16	NS-16	Supply of 60 KG, 1 m long Fish plates as per RDSO Drawing No. T -5916	5760	Each	2788	16058880
17	NS-17	Supply of joggled fish plates (2 Nos. per set) with 4 pair clamps, 4 Nos. Bolts & Nuts and 8 Nos. special washers for 60 KG rail as per RDSO Drawing No. T-5849	850	Set	6321	5372850
18	NS-18	Supply of rail screws to RDSO Drg. No.T-4153	12600	Each	55.00	693000
19	NS-19	Supply of Plate screw to RDSO Drg. No.T-3912	16500	Each	50.00	825000
20	NS-20	Supply of Plate screw to RDSO Drg. No.T-3915	2670	Each	50.00	133500
21	NS-21	Supply of Plate screw to RDSO Drg. No.T-3916	1485	Each	50.00	74250
22	NS-22	Supply of fish bolts with nuts for 60 KG rails as per RDSO Drawing No.T-1899.	8640	Each	108.00	933120
23	NS-23	Supply of Single Coil Spring Washer as per RDSO Drg.No.T-10773	45500	Each	6.93	315315
<b>Total for Bill No.9</b>						<b>2,44,05,915.00</b>

**Payment Conditions for items of this Bill:**

(1) 90% payment shall be made on receipt, acceptance, accountal and taking into custody of complete materials. The invoices shall be accompanied by the following :

- a) Supplier's challan and manufacturer's challan.
- b) Inspection certificate issued by Employer's/Engineer's nominated inspecting agency.
- c) Quality Assurance documents.
- d) Indemnity bond for entire cost of material supply.

(2) The remaining 10 % payment shall be made after commissioning of the portion of the work or handing over of the material to the Employer's / Engineer's representative, required for maintenance purposes.

**BILL No.10 : P.WAY LINKING (Track Installation)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>24</b>	<b>NS-24</b>	<b>Track Installation</b>				
24 (a)	NS-24(a)	Installation of BG track with wider 60 kg PSC sleepers as per drawing no. RT-8527 and 60 kg service rails as per methodology specified in Sub-Clause 2.3.4 of the Technical Specifications, Section VII of Tender Documents or any other methodology approved by the Employer in all locations e.g. straight, curves, bridges, level crossings, yards etc. including installation of SEJ and glued joints, initial packing, two rounds of through packing and picking-up of slacks as detailed in note ii below, pairing of new rail panels, removal of service rails and through rail renewal with 60 kg new rail panels/free rails, leading released service rails to new locations as required for further track linking work and depositing the service rails at the nominated location within the project area after completion of works.  Note: i. 50% of the rate shall be paid after placement of the sleepers, service rails, fastening, initial squaring, initial alignment (generally corrected by eye sight) and correcting sleepers spacing and kutch packing. ii. Next 20% of the rate shall be paid after initial and 1st manual/off-track tamper packing, lifting, levelling, aligning of the track and making fit for movement of moped trolley/motor trolley/material trolley/ballst lorry. iii. Next 10% of the rate shall be paid after 2nd manual packing including picking up of slacks between 1st and 2nd packing and bringing the parameters within the prescribed tolerance limits to make track fit for 45 Kmph for working of track machines/material trains/wiring trains etc., and is certified so by the Engineer. iv. Next 10% of the rate shall be paid after through rail renewal with new rail panel/free rail. v. Balance 10% of the rate shall be paid after picking up of slacks etc for making the fit for CRS inspection.	80000	Track Meter	811	64880000
24 (b)	NS-24(b)	Third or subsequent manual Through Packing of PSC Sleeper Track (BG), for any sleeper density and picking of slacks for next 10 days for making the track fit for raising the speed from 45 kmph to 75 kmph as certified by the Engineer.  NOTES: 1. Full ballast cushion shall be available as per final plan for the track. 2. General lift is normally 25 mm and isolated lift may be up to 50 mm.	25000	Track Meter	97	2425000
24 (c)	NS-24(c)	<b>Installation of PSC fan shape turnouts, derailing switches</b> 60 KG / 52 KG including lead rails as per RDSO layout drawings including katcha packing with bars or off track tampers for 20 KMPH speed. Activities of rail cutting, drilling of holes, welding of joints and transportation are not included in this item and shall be paid separately under relevant items.				
	NS-24(c)(i)	Turnouts 1 in 12	70	Each	78322	5482540
	NS-24(c)(ii)	Turnouts 1 in 8-1/2	7	Each	74427	520989
	NS-24(c)(iii)	Derailing switches	3	Each	18705	56115
24 (d)	NS-24(d)	<b>Assembly and laying of points and crossings 1 in 16, 1 in 12, 1 in 8.5, Derailing switch under Line block by Railway's T-28 (Ameca) machine</b> including removal of ballast, removing and refixing ERC clips, drilling of holes, cutting of rails, screening of ballast, short leading of rails and sleepers by hydra and JCB, dismantling of track, levelling of ballast, approach connection, ballasting, katcha packing, alignment correction, hire charges for drilling machine, cutting machine, gas cutting sets, crane, JCB inclusive of caution watchman and blacksmith etc. including supply of wooden blocks, consumables, labour, etc. as directed by Engineer-in-charge with all lead and lifts and as directed by the Engineer-in-charge.	2	Each	240653	481306
<b>Total for Bill No. 10</b>						<b>73845950.00</b>

**NOTE:**

- 1) In case of work being executed under traffic block, extra payment will be made for the item of work over and above the accepted rate of the item @ 50% of the accepted rate of the item for day time working under traffic block and @ 100% of the accepted rate of the item for night time working under traffic block for BOQ item no. NS-24 (a) & NS-24 (c) . Rates include lighting arrangement as per requirement and to the satisfaction of the Engineer
- 2) Rates for all the items of this bill except those mentioned in note 1) above include day as well as night working and lighting arrangement as per requirement and to the satisfaction of the Engineer.
- 3) Track laying -
  - a) For mechanized laying of track only service rails will be made available by the Employer. All other materials such as wooden blocks, fish plates, rail screw etc. will have to be arranged by the contractor. The rails will be provided at convenient location within the project jurisdiction. All leads, lifts and transportation, etc. shall have to be done by contractor including depositing back after completion of works at his own cost.
  - b) Manual linking of track may be permitted by the Engineer where mechanical linking is not feasible due to constraints in working. Only 90% of the accepted rates shall be payable in case of Manual linking.

4) During the maintenance of track after commissioning, all arrangement for transportation of labour, T&P etc will have to be done by contractor at his own cost. Necessary T&P for track maintenance will be produced by the contractor including consumables. The rate includes all such requirements.

5) The payment of rail cuts and drilling holes will be done as per final layout of mainline/loop line /sidings and turnouts etc. Rail cuts/ hole drilling required for temporary working will not be paid.

**BILL No.11: P.WAY LINKING (Training out of Ballast)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>25</b>	<b>NS-25</b>	<b>Leading/Training out of Ballast</b>				
25 (a)	NS-25 (a)	<p><b>Leading of ballast stacked on the formation or on the cess upto 50m lead and putting it in track/formation, from measured stacks by contractor's own mechanical means such as JCB/Dozer or by manual means</b> uniformly in following phases: (i) Laying of first layer to form level bed for sleepers with top surface dressed including mechanical compaction; (ii) Filling ballast in cribs and making up shoulders; and (iii) Recouping shortages after each packing and finally making profile as per IRPWM.</p> <p><b>Note:</b></p> <p>1. Payment shall be by pre stack measurements.</p> <p>2. Item NS-25 (a) shall be payable if the total lead involved is upto 50m. Item NS-25 (c ) shall be payable if the total lead involved exceeds 50m. Item NS-25 (a) and NS-25 (c ) are mutually exclusive and only one of them shall be payable.</p> <p>3. The complete ballast from the measured stacks, ordered by Engineer for dumping in track, is to be put into track. The left over ballast after lifting by mechanical means shall be lifted manually and put in the track. If any quantity of ballast is not lifted after Engineer's directions, then the Engineer shall assess the quantity left over on the ground and recover the cost of supply of that much quantity of ballast and also deduct such quantity from the stack measurements for payment under the item. The decision of Engineer regarding quantity of left over ballast shall be final and binding on the contractor.</p>	90000	Cum	160	14400000
25 (b)	NS-25(b)	<p><b>Training out ballast from ballast depots</b> by railway hoppers/wagons (haulage/wagon charges to be borne by Employer) from measured stacks including loading into hoppers/wagons and unloading on linked track in regulated manner to recoup shortages including redistribution and dressing up immediately after unloading for safe passage of trains and finally making profile as per IRPWM. (Note - Demurrage charges for not completing the loading in free time prescribed by Railway will have to be borne by the Contractor.)</p>	5000	Cum	147	735000
25 (c)	NS-25 (c)	<p>Leading of ballast from measured stacks by means of contractor's own road lorry or/and rail wheel lorry that can run on BG track including loading, leading and unloading either by mechanical means or manually by contractor at required site and putting the same into track/formation in following phases: (i) Laying of first layer to form level bed for sleepers with top surface dressed including mechanical compaction; (ii) Filling ballast in cribs and making up shoulders; and (iii) Recouping shortages after each packing and finally making profile as per IRPWM (All labour, lorry, fuel, consumables etc. by contractor).</p> <p><b>Note:</b></p> <p>1. Payment by pre stack measurements.</p> <p>2. Item NS-25 (a) shall be payable if the total lead involved is upto 50m. Item NS-25 (c ) shall be payable if the total lead involved exceeds 50m. Item NS-25 (a) and NS-25 (c ) are mutually exclusive and only one of them shall be payable.</p> <p>3. The complete ballast from the measured stacks, ordered by the Engineer for dumping in track, is to be put into track. The left over ballast after lifting by mechanical means shall be lifted manually and put in the track. If any quantity of ballast is not lifted after Engineer's directions, then the Engineer shall assess the quantity left over on the ground and recover the cost of supply of that much quantity of ballast and also deduct such quantity from the stack measurements for payment under the item. The decision of Engineer regarding quantity of left over ballast shall be final and binding on the contractor.</p> <p>4. The rates for item includes the cost of re-handling of ballast if any, required.</p>				
	NS-25 (c )(i)	(i) Total Lead exceeding 50 m but up to 5km	130000	Cum	315	40950000
	NS-25 (c )(ii)	(ii) Extra for total lead beyond 5km	6500	Cum	93	604500
<b>Total for Bill No. 11</b>						<b>5,66,89,500.00</b>

**NOTE:**

Rates for all the items of this bill include day as well as night working and lighting arrangement as per requirement and to the satisfaction of the Engineer.

**BILL No.12 : P.WAY LINKING (Transportation of Rails and Sleepers)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
<b>26</b>	<b>NS-26</b>	<b>Transportation of Rails and Sleepers</b>				
26 (a)	NS-26(a)	<b>Transportation of rails</b> (supplied by Employer) from point of issue to their final location of laying in track				
	NS-26(a) (i)	Average lead, from the place of issue upto the middle point of location of laying in each KM, upto 10 KM	2400	MT	478	1147200
	NS-26(a)(ii)	Incremental rate for lead beyond 10 KM under item <i>NS-26(a) (i)</i> above	696000	MT KM	10	6960000
26 (b)	NS-26(b)	Transportation of PSC line sleepers ( <i>wider base</i> ) from the place of issue (in case of sleepers issued free of cost by Employer) to their final location of laying. Note: (1)100% payment shall be made on transportation to designated site as directed by employer/engineer. (2) If the sleepers to be issued free of cost by the employer are made available at the sleeper plant and loading of sleepers is done by concrete sleeper plant then the rate quoted in the item shall be applicable subject to recovery @ Rs.10/- per sleeper. (3) Rate includes multiple handlings. Nothing extra shall be paid for multiple handlings				
	NS-26(b) (i)	<b>Lead upto 2 KM</b>	135000	Sleeper	87	11745000
	NS-26(b)(ii)	<b>Incremental rate for lead beyond 2 KM for every km additional lead upto 20 kms</b> over item <i>NS-26(b) (i)</i> above	2430000	Sleeper KM	3	7290000
	NS-26(b)(iii)	Incremental rate for lead beyond 20 KM for every KM additional lead over item <i>NS-26(b) (i) &amp; NS-26(b) (ii)</i> above	8100000	Sleeper KM	2	16200000
<b>Total for Bill No. 12</b>						<b>4,33,42,200.00</b>

**BILL No.13 : P.WAY LINKING (Installation-Misc.)/R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
27	NS-27	<b>Cutting of 60 KG, 52 KG, 90 R rails</b> with contractor's Abrasive Disc Cutter complete including men, material, fuel etc. true to square.	1700	Each	511	868700
28	NS-28	<b>Drilling 26.5 MM, 32 MM diameter holes</b> with Rail Drilling Machine in web of 60 KG, 52 KG, 90 R rails in track or on cess at correct locations including chamfering.	4500	Each	123	553500
29	NS-29	<b>Slewing of B.G. track</b> comprising 60 KG, 52 KG, 90 R rails on all types of sleepers to any density under traffic block upto a lateral slew of 150 MM or part thereof including removing and relocating existing ballast, packing with bars or off track tampers to achieve alignment, longitudinal levels and cross levels for running trains at a minimum speed of 20 KMPH on restoring traffic after the block and dressing up to correct profile.	1000	Track Meter	206	206000
	NS-29(a)	<b>Incremental rate over item NS-30 for slewing beyond 1st stage</b> of 150 MM for each 100 MM or part thereof if done in the same traffic block	500	Track Meter	81	40500
30	NS-30	<b>Pre-tamping and post tamping works, reconditioning of tamping tools, and providing all consumables for first-round of packing</b> by Employer's heavy on track tampers and dynamic track stabiliser of straight/curved main line and loop line track, sidings, derailing switches, and turnouts. Note: 1. For the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves, etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over shall be done at contractor's expenses without payment of extra cost. 3. Railways heavy on track machines along with crew/operator shall be made available without any hire charges. 4. 80% payment will be made if Dynamic track stabiliser not used.	85000	Track Meter	41	3485000
31	NS-31	<b>Pre-tamping and post tamping works, reconditioning of tamping tools, and providing all consumables for second-round</b> of packing by Employer's heavy on track tampers and dynamic track stabiliser of straight/curved main line and loop line track, derailing switches, and turnouts for raising speed to 100 Kmph. Note: 1. For the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves, etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over shall be done at contractor's expenses without payment of extra cost. 3. Railways heavy on track machines along with crew/operator shall be made available without any hire charges. 4. 80% payment will be made if Dynamic track stabiliser not used.	85000	Track Meter	27	2295000
32	NS-32	<b>Pre-tamping and post tamping works, reconditioning of tamping tools, and providing all consumables for third/final-round</b> of packing by Employer's heavy on track tampers and dynamic track stabiliser of straight/curved main line and loop line track, derailing switches, and turnouts for raising speed to sectional speed. Note: 1. For the purpose of payment: a. Length of turnout assembly, measured from stock rail joint to heel of crossing, shall be multiplied by 1.5 for conversion to equivalent ordinary track; and b. Derailing switches, bridges, level crossings, curves, etc shall be considered as ordinary track. 2. Transfer of machines from the existing running lines to the place of work and back to the running lines after the work is over shall be done at contractor's expenses without payment of extra cost. 3. Railways heavy on track machines along with crew/operator shall be made available without any hire charges. 4. 80% payment will be made if Dynamic track stabiliser not used.	85000	Track Meter	21.6	1836000
33	NS-33	<b>Anticorrosive painting of 60 KG, 52 KG rails.</b> Painting to be done prior to installation on sleepers including touching of paints in areas damaged during fixing.	85000	Track Meter	81	6885000
34	NS-34 (a)	<b>Flash butt welding of 60 KG rails up to 39 m length</b> , as per manual for flash butt welding of rails 1996, in track or outside track, in depot or in mid section for making panels including removing and refixing the fittings, creating required gap by pulling the rails, handling of rails. Ultrasonic testing of welded joints shall be paid separately.  Note:The payment for the item shall be made in the following stages: i) 70% payment on completion of welding of joint ii) 20% payment on completing of grinding of joint iii) 10% payment on completion of USFD test	300	Each	4393	1317900
34	NS-34 (b)	<b>Flash butt welding of 60 KG rails for 260 m panels</b> , as per manual for flash butt welding of rails 1996, in track or outside track, in depot or in mid section for making panels including removing and refixing the fittings, creating required gap by pulling the rails, handling of rails. Ultrasonic testing of welded joints shall be paid separately.  Note:The payment for the item shall be made in the following stages: i) 70% payment on completion of welding of joint ii) 20% payment on completing of grinding of joint iii) 10% payment on completion of USFD test	320	Each	18197	5823040
35	NS-35	<b>Provision of Buffer stop of 60 KG, 52 KG, 90 R rail section</b> as per plan including painting with luminous paint etc. as directed by the engineer. Note: Rail required for this item will be issued free of cost by the Employer.	12	Each	55528	666336

36	NS-36	<b>De-stressing of LWR/CWR track</b> with 60 KG rails at appropriate rail temperature as per LWR manual and as per directions of the engineer including adjustment of gap at SEJ, squaring & correct spacing of sleepers disturbed during the work, including greasing of ERC as per IRPWM. Payment for cutting of rails shall be made separately under relevant item.	80	Track Km	30395	2431600
37	NS-37	<b>Laying of Sand humps / Snag dead ends</b> as per RDSO standard drawing No: T-347 complete, with contractor's materials (excluding rails and PSC sleepers, fittings and fastenings which will be issued free of cost by the Employer within the Project area), machinery and labour. Sand hump will be treated as a complete item including laying of track beyond back of crossing, making brick channels, duly filled with clean sand including dressing/raising of earth work as per the requirement at site, complete as per the standard railway drawings and specifications.	6	Each	244128	1464768
38	NS-38	<b>Lifting of track in stages of maximum 75 MM</b> at a time under traffic block including making up formation and one round of katcha packing for getting required longitudinal and cross levels to make the track fit for 20 KMPH as per provisions in IRPWM Para 638 and as directed by the Engineer. (Rate will be for each stage lifting by 75 MM).	500	Track Meter	41	20500
39	NS-39	<b>Lowering of track in stages of maximum 75 MM</b> at a time under traffic block including removing ballast, cutting of formation and disposing of surplus cut spoils as directed by the engineer and one round of katcha packing for getting required longitudinal and cross levels to make the track fit for 20 KMPH speed as per provisions in IRPWM Para 639 and as directed by the Engineer. Existing ballast shall be put back into the track after screening without any extra payment and shortage of ballast will be recouped and paid for under the relevant item. (Rate will be for each stage of lowering by 75 MM).	500	Track Meter	330	165000
40	NS-40	<b>Painting of station number, super elevation and versine at each station of curve</b> on the inside web of outer rail with stencils of specified height in black enamel paint on surface of specified length painted with two coats of yellow enamel paint over a primer coat painted after cleaning the surface free from dust and dirt.	1100	Station	97	106700
41	NS-41	<b>Dismantling of existing BG track, turnouts, derailing switches, dead ends, sand humps, etc.</b> of any rail section and any type of sleepers of any density and transporting all released material including sleepers, rails, switches, crossings and fittings & fastenings to the nearest station or manned level crossing or road loading point as directed by the Engineer.				
	NS-41(a)	Plain track including SEJ and Glued Joints and track at level crossing, bridge & bridge approaches and sharp curves with check rails	500	Track Meter	184	92000
	NS-41(b)	Turnouts 1 in 12	6	Each	27862	167172
	NS-41(c)	Turnouts 1 in 8 1/2	4	Each	23576	94304
	NS-41 (d)	Derailing switches	2	Each	15976	31952
	NS-41 (e)	Sand Humps complete with rails, sleepers and fastenings and fixtures and levelling the area.	2	Each	22601	45202
42	NS-42	<b>Scarifying, digging existing caked Ballast</b> upto the depth as directed by the Engineer, removal and screening of Ballast, removal and disposal of muck, dressing of formation to the required profile and putting back the screen ballast in track.	500	Per Track meter	116	58000
43	NS-43	<b>USFD testing of 60 KG, 52 KG rail welds</b> (Flash Butt / SKV) as per RDSO Manuals and submitting reports on proforma as directed by the Engineer.	1000	Each	213	213000
44	NS-44	<b>Painting of particulars of 1 in 12 and 1 in 8 ½ turnouts and derailing switches</b> including turn in curves on the inside web of outer rail with stencils of specified height in black enamel paint on surface of specified length painted with two coats of yellow enamel paint over a primer coat painted after cleaning the surface free from dust and dirt.	80	Turn Out	1363	109040
45	NS-45	<b>Fouling marks</b> of size 1500x250x225 MM in M20 grade cement concrete including engraving the letters "FM", white washing with two coats and painting the letters in black enamel paint indicating the numbers of vehicles duly fixed at site.	20	Each	838	16760
46	NS-46	<b>Maintenance of track after commissioning</b> at normal sectional speed till track is handed over to the Railway by deploying 1 gang of 25 suitable persons headed by qualified P. Way supervisor. Attention to track to be done as per requirement to keep the track parameters within prescribed limits as per IRPWM for the sectional speed. Note: In case additional/less gang deployment is done as per direction of the engineer, the payment shall be appropriated proportionately	168	Week	150789	25332552
47	NS-47	<b>Running and maintenance of HORCL/HRIDC Trolley</b> , including consumables maintenance etc. with contractor's men, materials, tools & plants and as directed by Engineer-in-charge. Note: 1. Log book to be maintained duly obtaining the signature of the inspecting officials. 2. For light motor trolley, one motor trolley driver and three labour to be provided.				
	NS-47 (a)	Light motor trolley	90	Day	2437	219330
	NS-47(b)	Extra over above item for operating heavy duty motor Trolley	45	Day	324	14580
48	NS-48	Unloading of free rails/short welded rail panels/long welded rail panels from railway BFR/BRH/any other wagon during traffic line block with contractors, men, crane or any other approved means with all tools and plants and consumables at required location complete as directed by Engineer-in-charge	9900	MT	330	3267000
49	NS-49	Loading / unloading of Employer's P-way material of all types to / from any type of Railway wagons, truck, trailer etc.	100	MT	298	29800
50	NS-50	Collection and removal of P. Way materials viz. PSC sleeper, rails, etc. from the proposed alignment, loading, into Contractor's vehicles, leading to the nearest crossing station as directed, unloading and stacking in a neat and countable manner as directed by Engineer-in-Charge. Note: Weight of PSC sleepers will be taken as 275 Kg & rails, P way fittings etc., as 95% of standard weight	50	MT	464	23200
51	NS-51	Providing rail post for curve/SEJ/LWR reference post or detonator post by cutting rail to suitable length and fixing in 1:3:6 cement concrete foundation of size 0.30m x 0.30m x 0.60m including required excavation and painting two coats with enamel paints of approved quality and colour and marking sign and chisel marks with all tools, plants, machinery, cutting of rail, labour, equipment etc complete as per provisions of manual and instruction of Engineer-in-charge. Note: Rails will be issued free of cost by the employer.	550	Each	563	309650

52	NS-52	Insertion of glued joints 52/60 kg in traffic block including transportation from depot at station to site of work cutting, removal of existing rail from track and stacking of released rail as directed by Engineer-in-charge with all tools, plants & labour etc complete. Cutting of rails, drilling holes, welding of joints will be paid separately in relevant BOQ item.	100	Each	401	40100
53	NS-53	Renewal of existing any type of sleeper with PSC sleeper including deep screening of existing ballast under traffic including removing of the core and excavation below the bottom of sleepers upto 200 mm including initial kutcha packing, 1st packing and 2nd packing and picking up of slacks to keep the track safe and fit for traffic as per IR P. Way Manual and proper stacking of released materials as per directions of Engineer-in-charge with contractor's labour, tools, plants, lead and lift all complete. The work is to be carried out as per IR P. Way Manual Note: 1. Released fittings are to be handed over to open line as directed by Engineer-in-charge and rates of transportation of fittings are deemed to be included in the item. 2. In case of turnout, each turnout sleeper will be considered as 1.5 number of ordinary line sleeper. 3. Lifting of track shall be paid under relevant BOQ item.	500	Each	281	140500
54	NS-54	Renewal of existing single/SWR/LWR rails in track with new single/SWR/LWR rails and fixing all fitting on existing sleeper of any density with gauge face greasing of rails as per IR P. Way Manual including keeping released rails safely on cess and other released material as directed by Engineer-in-charge (work to be done under traffic block and railway supervision). Note: Transportation of rails, cutting of rails, making fish bolt holes shall be paid in relevant BOQ items both for released and new rails.	500	Track m	65	32500
55	NS-55	Shifting of P. Way materials such as rails, sleepers, points and crossings, fastenings etc. and stacking at the nominated place upto 250 m lead as directed by Engineer-in-Charge including all lift, labour, tools and machinery etc. complete				
	NS-55(a)	For lead upto 50 m	150	MT	170	25500
	NS-55(b)	Extra for lead for every 50 m or part thereof beyond initial 50 m lead	150	MT	25	3750
56	NS-56	First and second manual through packing of points and crossing including gauging, fittings recoument, elimination of sag and to the required alignment as per provisions of Indian Railways Permanent Way Manual for raising the speed from 20 kmph to 45 kmph. NOTE: The rate includes 1st through packing on 2nd day after relaying on Day 1 (laying of turnout will be paid separately under relevant item of BOQ), 2nd through packing on 3rd day and Picking up of slacks, as required, from 4th to 9th day.				
	NS-56(a)	1 in 8-1/2 Points & Crossing	7	Each	19252	134764
	NS-56(b)	1 in 12 Points & Crossing	70	Each	26233	1836310
	NS-56 (c)	Derailing Switch	3	Each	5080	15240
57	NS-57	General cess dressing up to 1.5m width on both sides from toe of ballast including scarifying the toe ballast, making good the ballast toe line and vegetation uprooting from central line of track and extending upto 1.5m beyond the toe of ballast.  NOTE: Item is to be operated for Preparation of CRS inspection on identified locations with the personal approval of CPM/HRIDC.	1000	Running Metre	23	23000
58	NS-58	Patrol man for security patrolling whenever required for protection of track with all contractor's labour, tools and plants etc. complete and as directed by Engineer for a duration of 12 hours.  NOTE: 1. Following equipment are to be arranged by contractor for each patrol man: • H.S. Flags green – 1no.(standard size) • H.S. flags red – 2nos. .(standard size) • Torch (3 cell) – 1no. • Staff for flags – 1no. • Whistle thunder – 1no., protective cloth to withstand the climate, Gum boots, Haver sack. 2. Item is to be operated for Preparation of CRS inspection on identified locations with the personal approval of CPM/HRIDC.				
	NS-58(a)	For Day shift	100	Each	712	71200
	NS-58(b)	For Night shift	50	Each	884	44200
59	NS-59	Profiling of Track: Boxing of ballast to the profile as per IRPWM after final packing including adjusting the excess ballast available on track with all contractor's labour, tools, plants, lead lifts, complete and as directed by Engineer. Note: Item is to be operated for Preparation of CRS inspection on identified locations with the personal approval of CPM/HRIDC.	40000	Track Mete	27	1080000
<b>Total for Bill No. 13</b>						<b>6,16,36,150.00</b>

**NOTE:**

- 1) In case of work being executed under traffic block, extra payment will be made for the item of work over and above the accepted rate of the item @ 50% of the accepted rate of the item for day time working under traffic block and @ 100% of the accepted rate of the item for night time working under traffic block for BOQ item no. NS-41. Rates include lighting arrangement as per requirement and to the satisfaction of the Engineer
- 2) Rates for all the items of this bill except those mentioned in note 1) above include day as well as night working and lighting arrangement as per requirement and to the satisfaction of the Engineer.
- 3) The welds found defective in USFD, shall have to be replaced by the contractor at his own cost.
- 4) Track laying -
  - a) For mechanized laying of track only service rails will be made available by the Employer. All other materials such as wooden blocks, fish plates, rail screw etc. will have to be arranged by the contractor. The rails will be provided at convenient location within the project jurisdiction. All leads, lifts and transportation, etc. shall have to be done by contractor including depositing back after completion of works at his own cost.
  - b) Manual linking of track may be permitted by the Engineer where mechanical linking is not feasible due to constraints in working. Only 90% of the accepted rates shall be payable in case of Manual linking.
- 5) During the maintenance of track after commissioning, all arrangement for transportation of labour, T&P etc will have to be done by contractor at his own cost. Necessary T&P for track maintenance will be produced by the contractor including consumables. The rate includes all such requirements.



6) The payment of rail cuts and drilling holes will be done as per final layout of mainline/loop line /sidings and turnouts etc. Rail cuts/ hole drilling required for temporary working will not be paid.

**Bill No. 14: P.Way Linking: Supply and Installation Works- Misc./R1**

S. No.	NS item No	Description of Item	Qty	Unit	Rate in INR	Amount (INR)
60	NS-60	Alumino thermit welding of 60kg 90 UTS (R 260/T12) rail joints or combination joints of 60kg/52kg rail by pre-heat (SKV) welding technique using compressed air petrol/LPG for preheating, three piece pre-fabricated moulds (Zircon washed) single shot crucible fitted with automatic tapping thimbles with all labour, materials including supply of portion, tools and plants, aligning of rails, placing & fixing of mould, preheating, welding, mechanised trimming, grinding with profile grinder (including riser), testing, marking, painting with one coat of high build epoxy paint (two pack conforming to RDSO specification no. M&C/PCN-111/88) on the welded area up to 10 cm on either side. The work is to be completed in all respects as per IRS: T-19-2012 with latest updates and in accordance with "RDSO Manual for Fusion Welding of Rails by Alumino Thermic Process with up to date correction Slips in free rails or 3/10/20 rail panels. The work to be done under supervision of trained welding supervisor and carried out by trained welder having valid competency certificate from RDSO/TPP, Lucknow. Ultrasonic testing of welded joints shall be paid separately under relevant items. Note: 1) In case only portion is supplied by the contractor but welding is not done, the rate shall be payable @ 60% of the item rate. 2) In case welding portion is supplied free of cost by the Employer, the rate shall be payable @ 40% of the item rate. 3) The above provision in note (1) & (2) shall be operated with the specific approval of CPM/HRIDC.	1200	Each	12256	14707200
61	NS-61	<b>Supplying and fixing Boards for LWR and curves</b> , made of 16 gauge M.S. Sheet with ISA 40x40x5 MM frame and ISA 75x75x6 MM posts as per drawings duly painted and lettered with luminous paint.	75	Each	3728	279600
62	NS-62	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type-IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class-2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25mmx25mmx3mm along with theft resistant measures, mounted and fixed with 2 nos. M.S. angles of size 35mmx35mmx5mm to a vertical post made up of ISMC 100x50 @9.56kg/m welded with base plate of size 100mmx100mmx5mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical ISMC support to be painted in black and white colours). Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including fixing in ground with 1:2:4 cement concrete base of 450mmx450mmx450mm including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge. Note – In case fixing is not done and supply is taken, the rate to be paid @ 80%.				
62 (a)	NS-62(a)	Caution Indicator board of fish tail type as per Annexure 8/4 para 807 and 808 of IRPWM of size 400x1400 mm with support length of 3650mm	4	Each	12358	49432
62 (b)	NS-62(b)	Termination Indicator boards as per Annexure 8/4 para 807 and 808 of IRPWM of size 1.0m dia with support length of 3850mm	4	Each	14554	58216
62 (c)	NS-62(c)	Speed Indicator board as per Annexure 8/4 para 807 and 808 of IRPWM of size 1.0m side triangle for various speeds of 10, 20, 30, 45, 60, 75, 80, 90 kmph with support length of 3600 mm	10	Each	11482	114820
63	NS-63	<b>Supplying and fixing hard wood wooden distant blocks</b> of size 250x125mm & 855 mm in length between one side rail of track and platform wall at 30m interval along the length of platform with contractor's material, labour, tools and equipment complete as per specifications	200	Each	5062	1012400

64	NS-64	<p>Fabricating of in situ Glued Insulated Rail Joints G3 (L) type as per RDSO drawing no. T-2572 for broad gauge 60 Kg rail section as per MANUAL FOR GLUED INSULATED RAIL JOINTS (Revised 1998) with latest amendments including contractor's labour, materials, loading, unloading and transportation, rail cutting, cleaning of ends, drilling of holes in rails, hole chamfering etc. complete. The work will be executed in running lines during block period as per directions of Engineer incharge at site.</p> <p>Note:  (1) 90% payment shall be made on fabrication of joint and its passing of dimensional and insulation resistance tests. Balance 10% payment shall be released after passing of Pull Out test for the lot.  (2) The contractor shall get the above work executed through agencies/vendors approved by RDSO for manufacture and supply of glued insulated rail joints.  (3) The input materials shall be procured from RDSO approved suppliers only.  (4) Dimensional accuracy and insulation resistance of each of the fabricated in situ glued joint shall be tested in order to ensure that it is conforming to the Manual.  (5) Pull Out test for at least one glued joint from every 50 nos. of glued joints shall be carried out in lab as detailed in manual of glued joint. No payment shall be made for transportation from site of work to lab, testing of joint and bringing back the rails after dismantling of tested joint.  (6) The defect liability period for the glued joint shall be 90 days from date of in situ fabrication and the contractor has to attend/repair the glued joint in case any defect arises during the defect liability period.</p>	50	Each	27396	1369800
65	NS-65	<p>Supplying &amp; fixing of M-25 grade RCC gradient post and km post as per standard type plan of Northern Railways (NR) at nominated places (i.e at every grade change point and every full kilometre location). All materials will be arranged by the contractor including fixing, painting, with all lead, lift, labour and T&amp;P, ascent, descent for completing the job . The rates are inclusive of cost of all materials such as cement, Reinforcement steel, binding wire, shuttering, aggregate, water, paint, excavation for foundation concrete and back filling, transportation of posts to site and fixing in position inclusive of all lift &amp; lead, taxes, royalties etc. complete. Reinforcement steel including cutting, straightening, hooking, bending, binding, placing and keeping and maintaining in position will be arranged by contractor at his own cost.</p>	200	Each	2500	500000
66	NS-66	<p>Earthwork in excavation manually in formation, side drains etc., in the alignment including leading usable cut spoils up to 200M and making formation in filling using the cut spoils, site clearances, setting out and demarcation, disposing off surplus unusable cut spoils as per directions of the Engineer and top and side dressing to provide final formation as per designed profile. The rate shall not include cutting of trees with girth above 30CM and compaction, which shall be paid separately.</p>	200	cum	272	₹54,400.00
<b>Total for Bill No.14</b>						₹1,81,45,868.00

**Attachment 2  
to  
Corrigendum No. 1  
Letter of Tender -Technical Part  
Tender No. HORC/HRIDC/T-1/2022**

## Letter of Tender – Technical Part

**INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT**

*The Tenderer must prepare this Letter of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.*

*Note: All italicized text is to help Tenderers in preparing this form.*

**Date of this Tender submission:** *[insert date (as day, month and year) of Tender submission]*

**Tender No.:** HORC/HRIDC/T-1/2022

To:

Chief Project Manager,  
Haryana Rail Infrastructure Development Corporation Limited (HRIDC),  
Plot no.143, 5<sup>th</sup> floor,  
Railtel Tower, Sector-44  
Gurugram – 122003  
Tel: +91 9311478893

We, the undersigned, hereby submit our Tender, in two parts sealed separately, namely: (a) the Technical Part; and (b) the Financial Part.

In submitting our Tender, we declare that:

- (a) **No Reservations:** We have examined and have no reservations to the Tender Document, including Addenda issued in accordance with ITT 8;
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITT 4;
- (c) **Tender-Securing Declaration:** We have not been suspended nor declared ineligible by the Employer based on execution of a Tender-Securing or Proposal-Securing Declaration in the Employer's Country in accordance with ITT 4.7;
- (d) **Conformity:** We offer to execute in conformity with the Tender Document and in accordance with the implementation and completion specified in the construction schedule, the following Works: *[insert a brief description of the Works]*;

\_\_\_\_\_;

- (e) **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission

deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- (f) **Performance Security** If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tender Document;
- (g) **One Tender Per Tenderer:** We are not participating, as a Tenderer, either individually or as a Joint Venture member, in more than one Tender in this tendering process, and meet the requirements of ITT 4.3;
- (h) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment or any ineligibility imposed or recognized by the Bank. Further, we are not ineligible under the Employer's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (i) **State-Owned Enterprise or Institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITT 4.6];*
- (j) **Binding Contract:** We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (k) **Employer Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- (l) **Prohibited Practice:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Prohibited Practice; and
- (m) **Inspection and Audit:** We agree to permit the Bank or its representative to inspect our accounts and records and other documents relating to the tender submission and to have them audited by auditors appointed by the Bank.
- (n) *We declare and certify that we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.*
- (o) *We declare that the information and documents submitted along with the tender by us are correct and we are fully responsible for the correctness of the information and documents, submitted by us.*

**Name of the Tenderer:** \* *[insert complete name of the Tenderer]*

**Name of the person duly authorized to sign the Tender on behalf of the Tenderer:**  
\*\**[insert complete name of person duly authorized to sign the Tender]*

**Title of the person signing the Tender:** *[insert complete title of the person signing the Tender]*

**Signature of the person named above:** *[insert signature of person whose name and capacity are shown above]*

**Date signed** *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

\*: In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer

\*\* : Person signing the Tender shall have the power of attorney given by the Tenderer. The power of attorney shall be attached with the Letter of Tender

**Attachment 3  
to  
Corrigendum No. 1**

**FORM FIN 3.3.3**

**Tender No. HORC/HRIDC/T-1/2022**



**Form FIN-3.3.3:****Financial Resources**

[Ref. ITT Sub-Clause 17.2 and Section III, EQC Sub-Clause 3.3.1 (i) &amp; (ii)]

Tenderer's Name: \_\_\_\_\_

Date: \_\_\_\_\_

JV Member's Name \_\_\_\_\_

Tender No. and title: \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

**(I) Sources of Finance for the subject Contract [Ref. Section III, Sub-Clause 3.3.1 (i)]**

Tenderers and each member of JV should specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction *cash flow demands of the subject contract* i.e. **Package T-1**.

Financial Resources for Subject Contract i.e. Package T-1		
No.	Source of financing	Amount (INR equivalent)
1		
2		
3		
4		
	<b>Total Sources of Finance for the subject Contract -(A)</b>	

**(II) Sources of Finance for works currently in progress and for future contract commitments [Ref. EQC 3.3.1 (ii)]**

Tenderers and each member of JV should specify sources of finance to meet the **cash flow requirements on works currently in progress and for future contract commitments** for the contracts mentioned in **Form FIN 3.3.4**. The total sources of finances specified in the table given below shall be more than three times the total monthly financial resources requirement specified in **Form FIN – 3.3.4**.

Financial Resources for Current Contract Commitments/Works in Progress		
No.	Source of financing	Amount (INR equivalent)
1		
2		
3		

<b>Financial Resources for Current Contract Commitments/Works in Progress</b>		
<b>No.</b>	<b>Source of financing</b>	<b>Amount (INR equivalent)</b>
4		
	<b>Total Sources of Finance for works currently in progress and for future contract commitments – (B)</b>	

**(III) Grand Total of Sources of Finance ( i.e Sources of Finance for the subject Contract and Sources of Finance for works currently in progress and for future contract commitments combined)**

<b>No.</b>	<b>Total Source of financing</b>	<b>Amount (INR equivalent)</b>
1	<b>Total Sources of Finance for the subject Contract – (A)</b>	
2	<b>Total Sources of Finance for works currently in progress and for future contract commitments – (B)</b>	
	<b>Grand Total of Sources of Finance– (C) = (A) + (B)</b>	

**Notes:**

(i) *In case, sources of finances specified in (I) above is inadequate to meet the requirements of Sub-Clause 3.3.1 (i) of Section III, EQC, any additional source of finance available in (II) above after meeting the requirement of Sub-Clause 3.3.1 (ii ) of Section III, EQC will be considered for evaluation of available sources of finances to meet the requirement of Sub-Clause 3.3.1 (i) of Section III, EQC .*

*Similarly, if sources of finances specified in (II) above is inadequate to meet the requirements of Sub-Clause 3.3.1 (ii) of Section III, EQC, any additional source of finance available in (I) above after meeting the requirement of Sub-Clause 3.3.3 (i) of Section III, EQC will be considered for evaluation of available sources of finances to meet the requirement of Sub-Clause 3.3.1 (ii) of Section III, EQC.*

(ii) *The Tenderer is not required to submit any document as documentary evidence along with the Tender Documents. All information furnished in this Form shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor.*

(iii) *The Form duly certified by a Chartered Accountant/Company Auditor/Statutory Auditor shall also be signed by Tenderer's Authorized representative.*

(iv) *The above documents shall reflect the financial situation of the legal entity or entities comprising the Tenderer and not the Tenderer's parent companies, subsidiaries, or affiliates.*

**Tenderer's Authorized Representative**

Signature: .....

Date: .....

Company stamp: .....

**Chartered Accountant/Company Auditor/Statutory Auditor**

Certified that the information furnished above is correct.

Signature: .....

Name:

Position:

Date:

Company:

Company stamp:

Membership No:

Address:

Contact No:

Email ID: