



**RAILTEL CORPORATION OF INDIA LTD.**

(A Govt. of India Enterprise)

**Territory Office**

Plot No. 17, 1<sup>st</sup> Floor, Raghunath Nagar,  
Near Shahpura Police station,  
Bhopal MP - 462039

**Western Region Office**

Western Railway Microwave Complex  
Senapati Bapat Marg,  
Near Railway Sports Ground,  
Mahalaxmi, Mumbai – 400013

**Corporate Office**

Plate-A, 6<sup>th</sup> Floor, Office Tower-2,  
NBCC Building, East Kidwai Nagar,  
New Delhi - 110023

**Tender**

For

“Selection of System Integrator for Design, Supply,  
Installation, testing and commissioning of Distributed  
Electronic Interlocking system along with associated Signal  
& Telecom arrangement at Bhopal station.”

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15      dated: 20.12.2023

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**NOTICE**

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

RailTel Corporation of India Ltd invites Tender's via E-Mail with password protected folder from reputed firms for work mentioned in the Scope of this Tender. The technical and commercial (price) bids shall be submitted through E-Mail at [bpltooffice@railtelindia.com](mailto:bpltooffice@railtelindia.com) in password protected folder as separate PDF documents up to the end date & time mentioned below.

| Sr. No. | Description                                                                                                                                                                                                      | Estimated Cost                                                               | Last date & Time for Bid Submission | Date & Time for Bid Open | Completion Period                     |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------|--------------------------|---------------------------------------|
| 1       | “Selection of System Integrator for Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station.” | As per tender document attached<br><br>As per Tender No: BPLNWKS2023-24SIG18 | 26.12.2023<br>10:00 Hrs.            | 26.12.2023<br>10:30 Hrs. | As per Tender No: BPLNWKS2023-24SIG18 |

**Note:** In case of any discrepancy or ambiguity in any clause/specification pertaining to scope of work area, Tender no. BPLNWKS2023-24SIG18. “Selection of System Integrator for Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station.”. will be sacrosanct (**Copy at annexure–VIII**).

**PRICE BID**

**Please Refer BoQ – Annexure -VIII**

Bidder should quote price for end-to-end SOW wrt–Tender Ref: RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023 and subsequent corrigenda. “Selection of System Integrator for Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station.”

**Note:** In case of any discrepancy or ambiguity in any clause/specification pertaining to scope of work area, the Tender no. BPLNWKS2023-24SIG18. “Selection of System Integrator for Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station.” will be sacrosanct **(Copy at annexure–VIII).**

1. The details are as under:

|   |                                                  |                                            |
|---|--------------------------------------------------|--------------------------------------------|
| 1 | Issue date of “Invitation for Tender document”   | 20.12.2023                                 |
| 2 | Last date for submission of Tender by applicants | 26.12.2023<br>10:00 Hrs.                   |
| 3 | Opening of Tenders                               | 26.12.2023<br>10:30 Hrs.                   |
| 4 | Tenders Submission Mode                          | By email (with password protected)         |
| 5 | Completion Period                                | As per tender ref. no. BPLNWKS2023-24SIG18 |

Tender and all corrigenda will be made available at RailTel Corporation of India’s portal <https://www.railtelindia.com>. Tender fee- Rs. 10,000/- +GST & EMD of Rs. 10,86,800/- as per tender clause. **(For Bank detail Refer Annexure VII)**

Note: For bid submission, tenderer will have to submit signed and stamped printed copy of the tender document.

1. RailTel intends to look for an empanelled BIDDER who can help us with Bid Submission & have the ability to take up the work on turnkey basis and who has good connect with the customer and local environment. The bidder shall bear all costs associated with the preparation, submission / participation in the bid. RailTel in no way will be responsible or liable for these costs regardless of the conduct or outcome of the bidding process.
2. Bidders shall necessarily furnish the details of the valid SD/PBG/Tender fee/fee applicable submitted at time of empanelment for consideration of their offer.
3. Undertaking stating that bidder accept to execute SOW of Tender on fully Back-to-Back basis.
4. Copy of power of attorney issued in favor of signatory
5. The bidder responding to this Tender shall give an undertaking that, if they are successful, then they will not participate directly or with other direct bidder
6. A pre bid agreement will be signed with successful bidder on non-judicial stamp of adequate value as per final bid value. Format will be shared with successful bidder only
7. The Bidder should have average annual turnover from IT / ITES/ICT of ₹ 18 crores in the last 3 Years (i.e., for FY 2020-21, FY 2021-22, FY 2022-23)
8. The Bidder must provide acceptance (with documents) on the following:

All payments shall be paid on Bidder back-to-back basis. RailTel shall make payment to selected Business Associate after receiving payment from the end customer for the successful completion portion. In case of any penalty or deduction made by the end customer, the same shall be deducted from the selected BIDDER.

The BIDDER should have the pre-requisite experience for similar type of work.

Bidder will submit No deviation certificate. Bidder will submit non-blacklisted certificate.

Partner will be chosen as per the policy guidelines of RailTel Corporation of India Ltd. Further evaluation will be carried out.

Please submit your proposal latest by upto 26.12.2023 10:00 Hrs.

“All Bidders are required to submit their bids (complete in all aspects) within the time and date as specified in Section 2 (Fact Sheet). The Bids received after the due date and the specified time (including the extended period if any) for any reason whatsoever, shall not be entertained”.

Prospective bidders are required to direct all communications related to this Invitation for

Tender document, through the following Help Desk:

|             |                                                                          |
|-------------|--------------------------------------------------------------------------|
| Contact (1) | Ms. Aanchal I Raaj                                                       |
| Designation | AGM/Bhopal                                                               |
| Email       | <a href="mailto:aanchal@railtelindia.com">aanchal@railtelindia.com</a>   |
| Telephone   | +917552428644                                                            |
| Mobile      | +919717644122                                                            |
| Contact (2) | Shri. Anand Kumar                                                        |
| Designation | Deputy General Manager/Marketing                                         |
| Email       | <a href="mailto:anandnkn@railtelindia.com">anandnkn@railtelindia.com</a> |
| Telephone   | +917552428644                                                            |
| Mobile      | +919004444107                                                            |

|        | <b>Check List</b>                                                                                                                                                |                   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Sl. No | Document                                                                                                                                                         | Remarks (Yes/ No) |
| 1      | Offer Letter                                                                                                                                                     | Annexure I        |
| 1      | Proof of Submission of PBG/SD/Tender Empanelment Fee submitted against Empanelment with RailTel                                                                  |                   |
| 2      | Copy of LoA/LOI issued by RailTel for confirmation of empanelment.                                                                                               |                   |
| 3      | Undertaking stating that bidder accept to execute SOW of Tender on fully Back-to-Back basis.                                                                     |                   |
| 4      | The bidder responding to this Tender shall give an undertaking that, if they are successful, then they will not participate directly or with other direct bidder |                   |
| 5      | Compliance certificate format                                                                                                                                    | Annexure II       |
| 6      | Financial capacity Format                                                                                                                                        | Annexure III      |
| 7      | Format for Declaration for acceptance of all Terms & Conditions                                                                                                  | Annexure IV       |
| 8      | Non blacklisted                                                                                                                                                  | Annexure V        |
| 9      | No deviation certificate                                                                                                                                         | Annexure VI       |
| 10     | RailTel's bank account detail to deposit EMD                                                                                                                     | Annexure VII      |
| 11     | Tender Document – BPLNWKS2023-24SIG18                                                                                                                            | Annexure VIII     |

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15

dated: 20.12.2023

**ANNEXURE-I:**

**OFFERLETTER**

(To be on company letter head)

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15

dated: 20.12.2023

To,  
Principal Executive Director  
RailTel Corporation of India Limited  
Western Railway  
Microwave Complex  
Senapati Bapat Marg,  
Near Railway Sports Ground,  
Mahalaxmi, Mumbai-400013

Dear Sir,  
Sub: Participation in the Tender.

Having examined the Invitation Tender document bearing the reference number Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023 released by your esteemed organization, we undersigned, hereby acknowledge the receipt of the same and offer to participate in conformity with the said Invitation for Tender document.

I/We fully understand the terms and conditions as contained in the EOI document and we agree that the same shall apply to our tender and I/We shall be bound by them.  
EMD & Tender document cost details are as follows: -

Tender document cost: - .....  
EMD :- .....

We hereby declare that all the information and supporting documents furnished as a part of our response to the said Invitation for Tender document, are true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us, our Tender is liable to be rejected.

Date:

Signature with seal—

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

**Annexure II**

**Compliance Certificate**

To,  
Principal Executive Director  
RailTel Corporation of India Limited  
Western Railway Microwave Complex  
Senapati Bapat Marg,  
Near Railway Sports Ground,  
Mahalaxmi, Mumbai-400013

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

Dear Sir,

This is in response to the Invitation for Tender for the “Selection of System Integrator for Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station.” in Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023 We have applied against Tender issued by RailTel Corporation of India Ltd. We hereby covenant, warrant and confirm. We hereby comply with all the terms and conditions/stipulations as contained in the Invitation for Tender document.

Date:  
(in the box)

Signature with seal



Name:  
Designation:

**Annexure- III****Financial capacity Format**  
**(to be issued by practicing Chartered Accountant on its letter head)****TO WHOM IT MAY CONCERN**

Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

This is to certify that M/s ..... having its office at ..... are in the business of ..... for ..... Completed years (considered upto 31<sup>st</sup> March 2023) and the date of incorporation is \_\_\_\_\_. Their annual financial Turnover during the preceding three years or from date of incorporation (in case of date of incorporation is within Three years of March) are as given below:

| <b>Financial Year</b> | <b>Turnover<br/>(in Rs Cr)</b> | <b>Profit / Loss<br/>(in Rs Cr)</b> |
|-----------------------|--------------------------------|-------------------------------------|
| <b>2020-2021</b>      |                                |                                     |
| <b>2021-2022</b>      |                                |                                     |
| <b>2022-2023</b>      |                                |                                     |

This is further certified that the above Turnover is in line with the Turnover declared by the Firm in their Income Tax Returns filed under PAN.....

Place.....

Signature.....

Name.....

**Annexure-IV**

**Performa for Declaration of acceptance for all Terms & Conditions**

Declaration for acceptance of all Terms & Conditions of the

Tender Ref :- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

1. We M/s (\_\_\_\_\_) having registered office at (Address) \_\_\_\_\_ agree to all the Terms & Conditions of the Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023 issued by RailTel.
2. Our offer will remain valid for 90 days from the date of opening of the Tender.
3. We confirm that we have the necessary resources & capabilities to undertake the work as specified in the schedule of work as per all terms and conditions given in the above Tender. We have also understood the process of submitting bid to RAILTEL and Instructions given in the above Tender. Further, we confirm that we shall execute the work against this price discovery for scope as specified in this Tender.
4. We also agree that RailTel has the right to reject all Tender, in part or in full without assigning any reason whatsoever.
5. This Tender along with other documents as stipulated in Tender together with your written acceptance thereof shall constitute a binding contract between us.

Date:-

**Name of the Company:-**

**Signature & Seal:-**

**Annexure-V**

**Non - Blacklisting Certificate Declaration**

To,  
Principal Executive Director  
RailTel Corporation of India Limited  
Western Railway  
Microwave Complex  
Senapati Bapat Marg,  
Near Railway Sports Ground,  
Mahalaxmi, Mumbai-400013

Sub: Undertaking of no deviation from Tender/ RFP terms and condition  
Tender Ref:- RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

We hereby undertake and submit the declaration that our firm/company is not debarred/black listed for future business with any Central/State Government organization/CPSU/SPSU in India.

In case, at any stage if the above declaration is found false or incorrect, the Purchaser shall be free to take any punitive/legal action against us, as may be deemed fit, which shall be acceptable / binding on us and the consequences shall be to our account.

Date:

Name & Signature of  
Authorized Representative:

Company Seal:

Name of Bidder:

Full Address:

Telephone No.:

**Annexure-VI**

Format for Statement of No Deviation from the RFP

To,  
Principal Executive Director  
RailTel Corporation of India Limited  
Western Railway  
Microwave Complex  
Senapati Bapat Marg,  
Near Railway Sports Ground,  
Mahalaxmi, Mumbai – 400013

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

Sub: Undertaking of no deviation from Tender/RFP terms and condition

Tender Ref: - RCIL WR-BPL/MKTG(EB)/Dec.- 1/15 dated: 20.12.2023

Dear Sir,

This is to confirm that the proposal/bid submitted by <<\_\_\_\_\_>>, is in complete agreement with the RFP/Tender and any of the corrigendum(s) or amendment(s) issued thereon and there is no deviation whatsoever.

Date:

Name & Signature of  
Authorized Representative:

Company  
Seal:

Name of Bidder:

Full Address:

Telephone No.:

Annexure -VII



**Mahalaxmi Branch  
Mahalaxmi Chambers  
22, Bhulabhai Desai Road  
MUMBAI: 400 026  
Tel. No. No.23512895 / 23517234 Fax No.23516948**

LT No:MAH/RCIL/2010

Date: 21/10/2010

To,  
The Sr. Manager (Finance)  
Railtel Corporation Of India Limited  
Mahalaxmi,Mumbai

Dear Sir,

Sub:- Bank Details For your collection account.

We are in receipt of your letter no. RCIL/WR/Fin/Bank Matters dated 20.10.2010  
Requesting bank details for your collection account no. 317801010036605. Details are below:-

Account No.- 317801010036605

A/c Name- Railtel WR collection A/c

Bank Name- UNION BANK OF INDIA

Branch name- Mahalaxmi, branch

Branch address- 22, bhulabhai desai Road, Mahalaxmi chambers,  
Mahalaxmi, Mumbai-400026

IFSC Code- UBIN0531782

Swift Code- UBININBBLOP

Thanking You

Your's faithfully

*Pushpa Tiwari*  
Pushpa Tiwari  
Manager



**Annexure -VIII**

BPLNWKS2023-24SIG18

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** BPLNWKS2023-24SIG18

**Closing Date/Time:** 26/12/2023 15:00

**SR. DSTE/CO/BHOPAL** acting for and on behalf of The President of India invites E-Tenders against Tender No **BPLNWKS2023-24SIG18** Closing Date/Time 26/12/2023 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

|                                    |                                                                                                                                                                             |                                                    |                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|
| <b>Name of Work</b>                | Design, Supply, Installation, testing and commissioning of Distributed Electronic Interlocking system along with associated Signal & Telecom arrangement at Bhopal station. |                                                    |                   |
| <b>Bidding type</b>                | Normal Tender                                                                                                                                                               |                                                    |                   |
| <b>Tender Type</b>                 | Open                                                                                                                                                                        | <b>Bidding System</b>                              | Two Packet System |
| <b>Tender Closing Date Time</b>    | 26/12/2023 15:00                                                                                                                                                            | <b>Date Time Of Uploading Tender</b>               | 30/11/2023 14:18  |
| <b>Pre-Bid Conference Required</b> | No                                                                                                                                                                          | <b>Pre-Bid Conference Date Time</b>                | Not Applicable    |
| <b>Advertised Value</b>            | 187350434.32                                                                                                                                                                | <b>Tendering Section</b>                           | SNT SIG           |
| <b>Bidding Style</b>               | Single Rate for Tender                                                                                                                                                      | <b>Bidding Unit</b>                                | Above/Below/Par   |
| <b>Earnest Money (Rs.)</b>         | 1086800.00                                                                                                                                                                  | <b>Validity of Offer ( Days)</b>                   | 90                |
| <b>Tender Doc. Cost (Rs.)</b>      | 0.00                                                                                                                                                                        | <b>Period of Completion</b>                        | 12 Months         |
| <b>Contract Type</b>               | Works                                                                                                                                                                       | <b>Contract Category</b>                           | Expenditure       |
| <b>Bidding Start Date</b>          | 12/12/2023                                                                                                                                                                  | <b>Are Joint Venture (JV) firms allowed to bid</b> | Yes               |
| <b>Ranking Order For Bids</b>      | Lowest to Highest                                                                                                                                                           | <b>Expenditure Type</b>                            | Capital (Works)   |

**2. SCHEDULE**

| S.No.                     | Item Code                            | Item Qty | Qty Unit | Unit Rate | Basic Value  | Escl.(%) | Amount       | Bidding Unit |
|---------------------------|--------------------------------------|----------|----------|-----------|--------------|----------|--------------|--------------|
| <b>Schedule 01-Supply</b> |                                      |          |          |           |              |          | 142871556.19 |              |
| 01                        | Please see Item Breakup for details. |          |          |           | 142871556.19 | AT Par   | 142871556.19 |              |
|                           | <b>Description:-</b> Supply          |          |          |           |              |          |              |              |

| S.No.                        | Item Code                            | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount      | Bidding Unit |
|------------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-------------|--------------|
| <b>Schedule 02-Execution</b> |                                      |          |          |           |             |          | 31370896.03 |              |
| 02                           | Please see Item Breakup for details. |          |          |           | 31370896.03 | AT Par   | 31370896.03 |              |
|                              | <b>Description:-</b> Execution       |          |          |           |             |          |             |              |

| S.No.                                        | Item Code                                  | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount     | Bidding Unit |
|----------------------------------------------|--------------------------------------------|----------|----------|-----------|-------------|----------|------------|--------------|
| <b>Schedule 03-Supply &amp; Installation</b> |                                            |          |          |           |             |          | 5407027.31 |              |
| 03                                           | Please see Item Breakup for details.       |          |          |           | 5407027.31  | AT Par   | 5407027.31 |              |
|                                              | <b>Description:-</b> Supply & Installation |          |          |           |             |          |            |              |

| S.No.                           | Item Code                            | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount     | Bidding Unit |
|---------------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|------------|--------------|
| <b>Schedule 04-Store Supply</b> |                                      |          |          |           |             |          | 7700954.79 |              |
| 04                              | Please see Item Breakup for details. |          |          |           | 7700954.79  | AT Par   | 7700954.79 |              |
|                                 | <b>Description:-</b> Store Supply    |          |          |           |             |          |            |              |

**3. ITEM BREAKUP**

|                 |                    |
|-----------------|--------------------|
| <b>Schedule</b> | Schedule 01-Supply |
| <b>Item- 01</b> | Supply             |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** BPLNWKS2023-24SIG18

**Closing Date/Time:** 26/12/2023 15:00

| S No. | Item No | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit    | Qty  | Rate        | Amount      |
|-------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-------------|-------------|
| 1     | 01      | Design, manufacture and supply of Hot Standby Architecture Electronic Interlocking (EI) system complete as per RDSO specification No. RDSO/SPN/203/2011 version 2.0 with latest amendment and TAN No. STS/E/TAN/3008 dated 31.03.2013 or latest & STS/E/TAN/3012 Ver. 3.0 dated 28.06.2021 or latest and all latest applicable TAN issued by RDSO and as per Technical Requirement & Tentative Signalling Concept mini Plan given in the tender document comprising of approximately 1681 Input and output working bits including readback bits, future modification bits & spare bits but excluding system Monitoring bits, system required loading spare Bits/Cards required for satisfactory system/card working or any other provision shall be catered for before supply of system. The tenderer shall calculate the exact requirements of all the I/O bits based on Tentative Signalling Concept mini Plan, OEM requirement among others before supply of EI items consisting of Central Processing Equipment with One Distributed Architecture (Object Controller) i.e., 1 (Central cabin) + 1 (End cabin) distributed configuration to be supplied from RDSO approved sources only. EI system shall be provided to operate from main & standby dual VDU control terminal. EI system shall mainly consists of Central processing unit, interface equipment, inter-EI communication equipment, Microprocessor equipment, Counters, Counter Box, interface relays (QN1, QNA1, QBCA1, QSPA1, QL1, QECX (LED ECR's), 120 seconds Q-series timer relay and any other Relays required for interfacing), inbuilt event logger, inbuilt power supply equipment, EI interconnecting cables, cabinet type dust free racks, (EI rack/Relay rack) as per requirement, indoor cables & Jumper wires, wires, fuses, fixtures, mounting arrangements, Power supply DC-DC converters for various supplies required for EI system, Housing arrangement, ladder/cable ducts, screwless disconnecting type terminals, FDMS for Main and stand by path of OFC etc. along with all accessories necessary to make complete EI system functional. Design of EI system should be compatible as per outdoor interlocking requirement, based on approved signal interlocking plan, selection table & locking table etc. of the station yard. NOTE: 1. Complete details description of this item is attached in separate Annexure-I. 2. The EI material under this schedule shall be supplied based on number of bits given in the item description above or as calculated by tenderer based on attached Tentative Signalling Concept mini Plan, whichever is higher. | Station | 1.00 | 86326074.00 | 86326074.00 |
| 2     | 02      | Supply of Portable workstation for data input and configuration with necessary software/Programs/Accessories/ Simulation for Functional testing, diagnostics, and trouble shooting and commissioning of EI system with A3 colour printer as per Annexure-II attached. One set shall comprise of 2 No. Workstation and 2 No. A3 colour Printer with necessary software and accessories, if any. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Set     | 1.00 | 154587.58   | 154587.58   |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** BPLNWKS2023-24SIG18

**Closing Date/Time:** 26/12/2023 15:00

|   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |      |           |           |
|---|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------|-----------|
| 3 | 03 | Supply of documents (Manuals for installation, testing, commissioning and maintenance of the system) one set consists of 6 sets of following drawings per station: (i) Manual for installation, testing, Commissioning and maintenance of the system for Technicians/Jr Engineers. (installation & Maintenance level) (ii) Functioning and system overview (higher management level) (iii) Completion documents as per extant practice of WCR. (iv) Design and supply of circuits and plans to suit layout given in the signalling plan for hot standby arch. Electronic Interlocking system. All plans and wiring diagrams shall be prepared on autocad drawing and supplied with CD. This will include supply of ST/LT, Control cum indication panel/VDU diagram, square sheet, wiring diagram (Application logic and interface circuit), Fuse analysis, contact analysis, Tag Block Analysis, EI earthing diagram, power supply distribution / Power equipment arrangement (with program switch), auto changeover diagram (if required) and all other relevant drawings. Soft copy of all documents in CD/DVD or pen drive will also have to be submitted by contractor. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                         | Station | 1.00 | 41298.11  | 41298.11  |
| 4 | 04 | Supply of Instruments and tool kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations as per schedule item 1 of EI above. (This includes tools required for EI maintenance like crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractors, temperature controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/cabinet for technicians and JE for testing, maintenance and repair at site). Each set comprises of the following: i) Crimping tools for all types of special cable assembly used in EI system. ii) Insertion tools for all types of Special cables assembly used in EI system. iii) Removal tools for all types of Special cables assembly used in EI system. iv) Digital multimeter (Fluke 111 or better) v) Steel cabinet/Almirah/ size 1980mm height, 915 mm width and 485 mm depth (Make Godrej, Jalaram or similar) of good quality to store tools, spare cards and documents. vi) Steel book rack Size: 1850mm*900mm*316mm (H*W*D) for keeping documents (Make Godrej, Jalaram or similar). vii) Clamp earth tester viii) Clamp current meter. Note: Any other Tools required for trouble shooting and repair and recommended by OEM shall be supplied by contractor free of cost Note: Tool kit supplied by contractor will have to be certified by OEM in form of Annexure that these tools are sufficient for maintenance/Repair/Troubleshooting. Per Unit = set. (Material inspected by Consignee) | Set     | 2.00 | 119875.39 | 239750.78 |
| 5 | 05 | Supply of high speed E1 card suitable to insert in data loggers and FEP for interlinking Data loggers & FEP of make supplied under this work. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers | 2.00 | 30248.22  | 60496.44  |
| 6 | 06 | Supply of Protocol converter for interfacing the data logger and the EI system suitable for data logger supplied under this work. Any other items like Connector/Cable etc. required to connect EI to datalogger will have to be supplied by Contractor at his own cost. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Numbers | 3.00 | 47387.28  | 142161.84 |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** BPLNWKS2023-24SIG18

**Closing Date/Time:** 26/12/2023 15:00

|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        |          |            |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|------------|
| 7  | 07 | Supply of powder coated Main Cable Termination rack complete with scaffolding, fixtures & accessories including square bars for mounting 8-way terminal / WAGO terminal blocks, ladders, string rods, frame, base assembly, insulators, J bolt, nut/bolts & fasteners (Bakelite strips) etc. Siemens type or equivalent & as per extant practice on W.C. Rly. Typical part list as per Annexure-III attached. Rack should be made of first class steel powder coated painting and rack manufacturer's certificate should be submitted. All runway for cables / wires shall be provided with PVC sleeve of proper size. (Material inspected by RITES) | Numbers | 10.00  | 53181.92 | 531819.20  |
| 8  | 08 | Supply of EI powder coated Relay Rack Assembly complete with all accessories compatible with EI supplied under this work. This item is to be supplied in addition to Relay racks to be supplied with EI. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                           | Numbers | 5.00   | 98313.96 | 491569.80  |
| 9  | 09 | Supply of relay QN1 (Non AC immunized relay), 8F/8B (24V/50V) along with plug board (Base plate), retaining clips and connectors conforming to BRS:930, IRS:S34 & IRS:S23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                              | Numbers | 240.00 | 5398.45  | 1295628.00 |
| 10 | 10 | Supply of QNA1 (AC immunised relay), 12F-4B and 8F-8B, 24V DC along with plug board (Base plate), retaining clips and connectors conforming to BRS:931A, IRS:S34 & IRS:S23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                             | Numbers | 580.00 | 6820.45  | 3955861.00 |
| 11 | 11 | Supply of QNNA1 (AC immunised relay), twin relays along with plug board (Base plate), retaining clips and connectors confirming to BRS:931A, IRS:S34 & IRS:S23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Numbers | 80.00  | 4168.30  | 333464.00  |
| 12 | 12 | Supply of QNA1K (AC immunised relay), 6F/6B, 24VDC along with plug board (Base plate), retaining clips and connectors conforming to BRS:931A, IRS:S34 & IRS:S23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers | 40.00  | 6214.15  | 248566.00  |
| 13 | 13 | Supply of Universal AC LED ECR of Q series type "QECX61" suitable for AC LED for all signal aspect, Front & back contacts Metal to Carbon type complete with plugboard retaining clip & connectors conforming to BRS: 941A, IRS:S-34 and S-23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 10.00  | 5113.54  | 51135.40   |
| 14 | 14 | Supply of Relay AC Immune, Plug in type, Style QBCA-1, DC Biased Point Contactor, 24V DC, 2F DC, 2HF-4B Contacts (Front Contacts Heavy Duty and Back Contacts Metal to Carbon) Complete with Plug Board, Retaining Clips and Connectors, Conforming to BRS 943, IRS:S-34 and IRS:S-23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                  | Numbers | 20.00  | 6424.05  | 128481.00  |
| 15 | 15 | Supply of QBAT Track Relay (AC immunised relay), 9 Ohm, 2F/2B, along with plug board (Base plate), retaining clips and connectors as per RDSO/SPN/84 Ver 2.0. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Numbers | 20.00  | 8281.76  | 165635.20  |
| 16 | 16 | Supply of Track Relay QTA2 (AC immunised relay), 9 Ohm, 2F/1B along with plug board (Base plate), retaining clips and connectors conforming to BRS:939A & 966 Appendix F2, IRS:S-34 & IRS:S-23. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                         | Numbers | 80.00  | 7315.69  | 585255.20  |
| 17 | 17 | Supply of Key Lock Relay AC immunized with different ward combinations (Five set of same ward plate for Point Machine to be supplied with each relay) of Siemens Make working on 24V DC or functional equivalent. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers | 45.00  | 15706.54 | 706794.30  |
| 18 | 18 | Supply of Limit switch New Top Roller type with 2 NO + 2 NC contacts Model No. 102TPRA. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Numbers | 4.00   | 862.07   | 3448.28    |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
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|    |    |                                                                                                                                                                                                                                                                                                                                                            |           |      |            |            |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|------------|------------|
| 19 | 19 | Supply of universal earth leakage detector for 8 channel for monitoring 110 V AC, 24 V DC, 60V DC & 110 V DC as per RDSO spec. No. RDSO/SPN/256/2002 with latest amendment. (Material inspected by RDSO)                                                                                                                                                   | Set       | 4.00 | 157445.52  | 629782.08  |
| 20 | 20 | Supply of PVC indoor cable 1x60x0.6 mm dia having colour coding of insulation of inner core shall be six colours viz. Blue, Red, Grey, Green, Brown & Black and shall be confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured from RDSO approved sources/firms. (Material inspected by Consignee)                 | Kilometre | 1.00 | 215723.27  | 215723.27  |
| 21 | 21 | Supply of PVC indoor cable 1x40x0.6 mm dia having colour coding of insulation of inner core shall be four colours viz. Yellow, White, Pink & Viloet and shall be confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured by RDSO approved sources/firms. (Material inspected by Consignee)                           | Kilometre | 1.00 | 150402.43  | 150402.43  |
| 22 | 22 | Supply of PVC indoor cable 1x24x1 mm dia having colour coding of insulation of inner core shall be six colours viz. Blue, Red, Grey, Green, Brown & Black and shall be confirming to RDSO specification IRS:S: 76/89 with latest amendments. (Material inspected by RDSO)                                                                                  | Kilometre | 4.00 | 217337.65  | 869350.60  |
| 23 | 23 | Supply of flexible cable single core multistrend copper conductors, 1x10 sq. mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured by RDSO approved sources/firms. (Material inspected by RDSO)                                                                                                                 | Kilometre | 4.00 | 128773.44  | 515093.76  |
| 24 | 24 | Supply of flexible cable single core multistrend copper conductors, 1x25 sq. mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured by RDSO approved sources/firms. (Material inspected by Consignee)                                                                                                            | Kilometre | 2.00 | 128773.44  | 257546.88  |
| 25 | 25 | Supply of flexible cable single core multistrend copper conductors, 1x16 sq. mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured by RDSO approved sources/firms. (Material inspected by RDSO)                                                                                                                 | Kilometre | 4.00 | 128773.44  | 515093.76  |
| 26 | 26 | Supply of flexible cable single core multistrend copper conductors, 1x6 sq. mm confirming to RDSO specification IRS:S: 76/89 with latest amendments. Material to be procured by RDSO approved sources/firms. (Material inspected by Consignee)                                                                                                             | Kilometre | 3.00 | 81812.94   | 245438.82  |
| 27 | 27 | Supply, wiring, installation and commissioning of Block proving with Axle counters per specification no. IRS:S 105/2012 with latest amendment using UFSBI & Block panel suitable for 25 KV AC RE area for single line operation. This includes supply of additional Modem 2 No. and Auto changeover unit 2 No with each Pair. (Material inspected by RDSO) | Pair      | 1.00 | 1150500.00 | 1150500.00 |
| 28 | 28 | Supply of double line block instrument complete with block bell equipment, HMT set with induction coil & condensor, 3 position polarised relay, filter unit etc. for working in RE area as per RDSO specification IRS:S 22/91, IRS TC 44/88, IRS AS- 68/69 with latest amandment. (Material inspected by RDSO)                                             | Numbers   | 1.00 | 180000.00  | 180000.00  |
| 29 | 29 | Supply of block bell unit in 25KV AC RE area as per RDSO Spec. No. IRS:TC-44/88 with latest amendment for SGE Double line block instrument. (Material inspected by RDSO)                                                                                                                                                                                   | Numbers   | 1.00 | 10256.49   | 10256.49   |

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|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |            |             |
|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|------------|-------------|
| 30 | 30 | Supply of block filter unit used in 25KV AC for RE area as per RDSO spec IRS:S-68/89 with latest amendment for SGE Double line block instrument. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Numbers | 1.00   | 69304.31   | 69304.31    |
| 31 | 31 | Supply of 3 position Polarised Relay. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 2.00   | 24745.00   | 49490.00    |
| 32 | 32 | Supply of Wooden block counter of size 700mm x 700mm X 900mm made of teak wood frame and 10 mm thick water proof ply with formica finish on top and all four sides having two compartment inside and two doors on opposite sides. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Numbers | 2.00   | 25230.42   | 50460.84    |
| 33 | 33 | Supply of VF tapping transformer as per IRS/TC/22/76 of impedance ratio 600:470. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 8.00   | 1662.80    | 13302.40    |
| 34 | 34 | Supply & screen printing of SWR/Laminated board/System information board/ failure information board on white formica of 1200x600x3mm as per instruction of site engineer. Proportionate payment will be made if size of board get increased or decreased. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Numbers | 12.00  | 5918.10    | 71017.20    |
| 35 | 35 | Supply of High frequency Digital Axle Counter Multi Section type complete system including central evaluator(s), final track clearance relay for each track section, Reset boxes, LV boxes, detection points, housing for track side electronics and all other accessories fully wired to the ultimate capacity and fully equipped to the configuration specified as per RDSO specification No. RDSO/SPN/176/2013 (ver. 3) or latest and OEM specification for 08 Detection Points & 06 Track Sections. This includes supply of one No. diagnostic system with each set as per Annexure-IV & Tools kit as per list approved/provided by OEM required for maintenance of MSDAC system. The system to be supplied under this item shall be compatible with the existing MSDAC installed at site. (Material inspected by RDSO) | Set     | 4.00   | 3327638.85 | 13310555.40 |
| 36 | 36 | Supply of low maintenance Lead Acid Secondary Cells 2V/80 Amp Hr. as per spec. IRS 88/93 with latest amendments. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Numbers | 250.00 | 2129.52    | 532380.00   |
| 37 | 37 | Supply of Track feed battery chargers of 10A rating conforming to Spec. No. IRS:S.89/93 with latest amendment. Charger shall be suitable for charging 80 AH battery. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Numbers | 80.00  | 4074.15    | 325932.00   |
| 38 | 38 | Supply of track lead junction boxes as per Drg. No. RST11509 made from fiber glass along with terminal blocks. The TLJB should be Black in colour. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers | 210.00 | 1856.16    | 389793.60   |
| 39 | 39 | Supply of B type choke conforming to Spec. No. IRS.S.65/83 with latest amendments. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Numbers | 80.00  | 6443.29    | 515463.20   |
| 40 | 40 | Supply of adjustable Track Feed Resistance, 30 ohms as per RDSO Drg. No. SA-20161-66M/M with latest amendments (with Phenolic moulded base). (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Numbers | 80.00  | 2279.77    | 182381.60   |
| 41 | 41 | Supply of Hydrometer Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Numbers | 12.00  | 363.29     | 4359.48     |
| 42 | 42 | Supply of Shunt Signal Post with Base (GI Pipe of 80 mm Dia., Medium class, IS Specification IS:1239 Pt-1/1990). (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 25.00  | 4036.47    | 100911.75   |
| 43 | 43 | Supply of Signal No. plates as per WCR Standard practise & drawing. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers | 120.00 | 732.33     | 87879.60    |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
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|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|------------|
| 44 | 44 | Supply of A/AG/C/P/G board as per RDSO Drg. No. SA 23455-56 RST-52 11445 & SA 23476-77 as applicable. (Material inspected by Consignee)                                                                                                                                                                                                                                                             | Numbers | 35.00   | 801.52   | 28053.20   |
| 45 | 45 | Supply of Block section limit board as per RDSO Drg No SA 2375 (Adv). Paint and retro reflective arrangement as per WCR standard practice. (Material inspected by Consignee)                                                                                                                                                                                                                        | Numbers | 2.00    | 2787.25  | 5574.50    |
| 46 | 46 | Supply of Stop Board as per RDSO Drg No. 7235/B. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                  | Numbers | 1.00    | 2623.55  | 2623.55    |
| 47 | 47 | Supply of Pad locks Godrej make or similar / Hand Cuff Locks with common key as per instruction of engineer incharge. (Material inspected by Consignee)                                                                                                                                                                                                                                             | Numbers | 240.00  | 399.80   | 95952.00   |
| 48 | 48 | Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspect Complete without lenses, lamps and signal transformer as per RDSO Drg No. SA 23001/A/M Adv. Alt- S and as per Spec. No. RDSO/SPN/194/2006 Rev. 2.0 or latest and FRP material as per RDSO Spec No. RDSO/SPN/151/1997 or latest. (Material inspected by RITES)        | Numbers | 35.00   | 27988.80 | 979608.00  |
| 49 | 49 | Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspect Complete without lenses, lamps and signal transformer as per RDSO Drg. No. SA 23001/A/M (Adv.) and as per Spec. No. RDSO/SPN/194/2006 Rev.2.0 or latest and FRP material as per RDSO Spec. No. RDSO/SPN/151/1997 or latest. (Material inspected by Consignee)      | Numbers | 13.00   | 30432.86 | 395627.18  |
| 50 | 50 | Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signalling suitable for RE area FOUR Aspect Complete without lenses, lamps and signal transformer as per RDSO Drg. No. SA 23001/A/M Adv. Alt-S and as per Spec. No. RDSO/SPN/194/2006 Rev. 2.0 or latest and FRP material as per RDSO Spec. No. RDSO/SPN/151/1997 or latest. (Material inspected by Consignee) | Numbers | 12.00   | 31320.80 | 375849.60  |
| 51 | 51 | Supply of Offset bracket 5-1/2" suitable for 140mm outer dia of main signal. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                      | Numbers | 18.00   | 1491.57  | 26848.26   |
| 52 | 52 | Supply of Offset Bracket 3-1/2" for shunt signal. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                 | Numbers | 32.00   | 805.37   | 25771.84   |
| 53 | 53 | Supply of position light shunt signal Unit as per RDSO No. SA23840. (Material inspected by RITES)                                                                                                                                                                                                                                                                                                   | Numbers | 49.00   | 14285.27 | 699978.23  |
| 54 | 54 | Supply of 1-Way Junction type Route Indicators as per RDSO No. SA23401. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                           | Numbers | 8.00    | 25331.75 | 202654.00  |
| 55 | 55 | Supply of 2-Way Junction type Route Indicators as per RDSO No. SA23401-6 as per IRS:S-66/84 amndt-1 or latest. (Material inspected by RITES)                                                                                                                                                                                                                                                        | Numbers | 30.00   | 35677.63 | 1070328.90 |
| 56 | 56 | Supply of Calling-on Unit as per RDSO Drg No. 24351(Adv.) Alt1 or latest. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                         | Numbers | 35.00   | 3807.74  | 133270.90  |
| 57 | 57 | Supply of Multi Lamp Route indicator (LED Double Digit) from 1 to 19 with white LED (With housing) specification. Make Efftronics or similar. OEM Warranty certificate along with Test report to be submitted at the time of supply. (Material inspected by Consignee)                                                                                                                              | Numbers | 4.00    | 52968.81 | 211875.24  |
| 58 | 58 | Supply of GI pipe as per Spec. No. IS 1239 (Part-1)/1990 medium class normal bore of 100 mm, nominal mass of Tube 12.5 Kg (+/-) 10% per meter and complying parameters of specification along with one coupler per every 6 meters. (Material inspected by RITES)                                                                                                                                    | Metre   | 4500.00 | 1496.47  | 6734115.00 |

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|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------|------------|
| 59 | 59 | Supply of Double Walled Corrugated pipe fire resistant and anti- rodent made u p o f Polyethylene o f Size 103.5 mm inner dia and 120mm outer dia in 6M straight length as per RDSO specification No. RDSO/SPN/204/2011 with latest amendment along with one coupler per every 6 meters. (Material inspected by RITES)                        | Metre     | 3000.00  | 570.67   | 1712010.00 |
| 60 | 60 | Supply of half round RCC Pipe with 300mm outer dia & 250mm inner dia, 1 mtr in length along with collars as per IS No. 458/2003 of NP type. Tenderer shall submit inspection/test report before supply for prior approval by engineer in charge. (Material inspected by RITES)                                                                | Metre     | 4000.00  | 354.62   | 1418480.00 |
| 61 | 61 | Supply of HDPE duct 40/33 MM as per TEC GR/CDS/08-02 NOV- 04 along with following accessories (to be procured from RCIL approved sources) with End Plugs, Cable Sealing Plugs and Plastic Couplers as per standard practice. (Material inspected by RITES)                                                                                    | Kilometre | 6.00     | 91956.04 | 551736.24  |
| 62 | 62 | Supply of S shape GI bend pipe Medium class, 50 mm dia. and of 1 mtr length, for cable entry in point machines as per WCR standard practise & drawing. (Material inspected by Consignee)                                                                                                                                                      | Numbers   | 80.00    | 482.42   | 38593.60   |
| 63 | 63 | Supply of Heat shrinkable straight through joint for UG cables with all accessories as per RDSO Spec. No. IRS /TC/77/2000 amend.-1 or latest for 6 quad cable 0.9 mm dia joint suitable for 6 quad cable.(RAYCHEM - Make or similar) (Material inspected by RDSO)                                                                             | Numbers   | 20.00    | 2501.00  | 50020.00   |
| 64 | 64 | Supply of Apparatus Case with miniature 'E' type locks with keys (1 key per 5 location boxes) of ward No. 41 (E type lock & key as per Spec. No. IRS S 30 & RDSO Drg. No. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. Single case as per WCR Drg . (Material inspected by RITES)   | Numbers   | 25.00    | 23282.77 | 582069.25  |
| 65 | 65 | Supply of Apparatus Case with miniature 'E' type locks with keys (1 key per 5 location boxes) of ward Nos. 41 (E type lock & key as per Spec. No. IRS S 30 & RDSO Drg. No. SA 3376/M & 3377/M respectively with latest Amendment) on both the doors, duly painted with red oxide. Half case as per WCR Drg. (Material inspected by Consignee) | Numbers   | 10.00    | 18590.84 | 185908.40  |
| 66 | 66 | Supply of Phenolic Laminated sheet, resin bonded 10mm thick, grade P3 in standard size of 1.22X1.22 Mtr as per Spec. No. IS 2036 of 1974. (Material inspected by RITES)                                                                                                                                                                       | Numbers   | 90.00    | 5860.58  | 527452.20  |
| 67 | 67 | Supply of lamp holders, switches, two pin (Backellite type) and bulbs (230V/110V) for location boxes. (Material inspected by Consignee)                                                                                                                                                                                                       | Numbers   | 110.00   | 147.09   | 16179.90   |
| 68 | 68 | Supply of two in two out (4 conductor) Knife edge disconnect terminal block set as per RDSO/SPN/189/2004 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                  | Numbers   | 40000.00 | 111.47   | 4458800.00 |
| 69 | 69 | Supply of end plate suitable for disconnect terminal. (Material inspected by Consignee)                                                                                                                                                                                                                                                       | Numbers   | 4000.00  | 15.38    | 61520.00   |
| 70 | 70 | Supply of end stop suitable for disconnect terminal block. (Material inspected by Consignee)                                                                                                                                                                                                                                                  | Numbers   | 8000.00  | 13.44    | 107520.00  |
| 71 | 71 | Supply of cartridge fuse block made of PBT as per RDSO Drg. No. SA-23748 Alt. 4 and Spec. No. IRS-S-75/2006 with latest ammendment. Fuse block shall be suitable for round head type fuses. (Material inspected by RDSO)                                                                                                                      | Numbers   | 400.00   | 283.20   | 113280.00  |

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|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|-----------|
| 72 | 72 | Supply of non deteriorating type low voltage cartridge fuse current ratings 2Amp/4Amp in equal proportion round head type as per spec. No. IRS/S/78/92 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Numbers | 400.00 | 122.60   | 49040.00  |
| 73 | 73 | Supply of maintenace free earth as per RDSO specification No. RDSO/SPN/198/2016 consisting of single earth pit which includes supply of 35 mm <sup>2</sup> /16 mm <sup>2</sup> /10 mm <sup>2</sup> multistrand single core PVC insulated copper cable as per IS 694 for connecting main earth electrode to MEEB in the equipment room in duplicate as per manufacturers recommendations and as per RDSO specifications as follows: A. Copper bonded steel electrode of 3.0 meters long, 17 mm diameter with copper bonding thickness of minimum 250 microns and UL listed and marked: 1 No. B. Earth enhancement compound of RDSO approved brand supplied in sealed bag of minimum 10 KG: 3 No. C. Copper strip of 150mm X 25 mm X 6 mm to terminate earth rod: 1 No. D. Copper strip of 300mm X 25 mm X 6 mm (MEEB): 1 No. (Material inspected by Consignee) | Set     | 12.00  | 29609.73 | 355316.76 |
| 74 | 74 | Supply of class A type Early streamer emission lighting conductor (ESEL), fully autonomous having lower series of energy collecting electrodes, upper series of spark generating electrodes, as inbuilt micro controller fordetection of lightingdown ward leaderand releasingupward leader at that very precisemoment to ensure nuisance free, fail safe, real need based operation any and every time, sealed in a stainless - steel housing fixed at the center of its central rod which has full electrical connectivity direct up to earth point, gain in triggring time of 25 micro second or better giving 75 meter radius or higher, high protection, real life & high voltage laboratory tested, CPRI tested. OEM guranantee and test certificate to be submitted at the time of supply. (Material inspected by Consignee)                           | Numbers | 2.00   | 70550.17 | 141100.34 |
| 75 | 75 | Supply of Mast (50 mm dia, GI) and support hardware (cantilevered/ guyed type, as required at site) suitable for mounting the ESE Lightning Arrester equipment above the roof/any surface, length as required at site as per standard practice. All accessories like clamps, bracket, guy kit, cable ties, base plate, adapters, nut bolts etc. shall be supplied by the Contractor. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers | 2.00   | 9899.95  | 19799.90  |
| 76 | 76 | Supply of copper cable of size 70 sq mm insulated copper cable (black colour) for high lightning current, as a down conductor. The tensile strength shall be between 220 - 270 N/ sqmm. The copper cable shall be designed to take care of 200 KA discharge current. OEM guranantee and test certificate to be submitted at the time of supply. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Metre   | 250.00 | 677.36   | 169340.00 |
| 77 | 77 | Supply of testable 6 digit LCD non-resettable type lightning stroke counter. OEM guranantee and test certificate to be submitted at the time of supply. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Numbers | 2.00   | 11775.73 | 23551.46  |
| 78 | 78 | Supply of hand held type fire extiguinsher CO2 type ISI marked 4.5 Kgs. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Numbers | 15.00  | 9481.50  | 142222.50 |
| 79 | 79 | Supply of Resettable fuse Polymeric Positive Temperature Coefficient (PPTC) type Fuse of make - Little fuse/Fuzetec/Tyco/ Raychem or similar. Suitable fuses with trip current of various ratings 2-10V DC/2A, 24-32V DC/2A, 110-130V AC/2A shall be supplied as per requirement. Prior approval of engineer incharge shall be taken before supply of material for break up. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                | Numbers | 300.00 | 14.21    | 4263.00   |

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|    |    |                                                                                                                                                                                                                                                                                                                                                                                     |         |         |           |            |
|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|------------|
| 80 | 80 | Supply of Insulation MAT for Electrical purpose 2.5 mm thick, size 2m x 1m suitable for 3.3 KV to 11KV (Class B) conforming to IS:15652-2006 or latest. (Material inspected by Consignee)                                                                                                                                                                                           | Sqm     | 10.00   | 3236.76   | 32367.60   |
| 81 | 81 | Supply of DC-DC converter (24-40V/10A) for integrated power supply system (IPS). Prior approval to be taken from engineer in charge before supply of material. (Material inspected by RDSO)                                                                                                                                                                                         | Numbers | 50.00   | 20975.98  | 1048799.00 |
| 82 | 82 | Supply of Two wire Two back system for IBS working one master and one slave unit working on 24V DC/110V AC as per instruction of engineer in-charge. (Material inspected by Consignee)                                                                                                                                                                                              | Set     | 2.00    | 17582.00  | 35164.00   |
| 83 | 83 | Supply of data concentrator along with one Dual Card modem (E1) as per RDSO specification IRS:S-99/2006 (Amdt-3) or latest suitable for data logger system supplied under this work. (Material inspected by Consignee)                                                                                                                                                              | Numbers | 1.00    | 125670.00 | 125670.00  |
| 84 | 84 | Supply of Junction route indicator unit 3 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as per IRS:S-66/84 amndt-1 or latest. (Material inspected by Consignee)                                                                                                                                                               | Numbers | 10.00   | 31146.76  | 311467.60  |
| 85 | 85 | Supply of Pre-wired Crank Handle cum key lock relay box along with LEDs, TEKNIC/SIEMENS or similar make push buttons, 8-way terminal strips/wago terminal, string rod etc. (Material inspected by Consignee)                                                                                                                                                                        | Numbers | 12.00   | 14307.79  | 171693.48  |
| 86 | 86 | Supply of rack of 18 gauge of MS sheet for housing of Signalling & Telecom equipment installed in Station Master Office. (ii) Panel-II of size 190cmX104cmX40cm having 4 shelves & side shelf of size 190cmX104cmX40cm and front door provided with glass. Item to be supplied as per drawing given by Site incharge and as per site requirement. (Material inspected by Consignee) | Numbers | 4.00    | 44487.31  | 177949.24  |
| 87 | 87 | Supply of 8-port with 2 port SFP Networking switch with POE as per RDSO Spec. No. RDSO/SPN/TC/65/2021 Rev. 6.0. (Material inspected by Consignee)                                                                                                                                                                                                                                   | Numbers | 5.00    | 25604.70  | 128023.50  |
| 88 | 88 | Supply of CAT6 UTP cable 4 pair it should be compliant with latest EIA/TIA-568-B.2-1 standard (in box of 1000 feet). Make - D-link/Tyco/Systimax or equivalent. (Material inspected by Consignee)                                                                                                                                                                                   | Boxes   | 15.00   | 4645.35   | 69680.25   |
| 89 | 89 | Supply of armoured power cable as per RDSO specification no. SPN/TC/65/2021 Rev.6 or latest specification. (Material inspected by Consignee)                                                                                                                                                                                                                                        | Metre   | 500.00  | 73.64     | 36820.00   |
| 90 | 90 | Supply of 20 pair twisted conductor PVC indoor cable (0.5mm) dia annealed copper conforming to as per TEC Spec. No. GR-WIR-06/03 G march 02 with latest amendment. (Material inspected by Consignee)                                                                                                                                                                                | Metre   | 2000.00 | 110.00    | 220000.00  |
| 91 | 91 | Supply of ADSL 2T Router 150 MBPS four port Ethernet wireless (with ethernet WAN). Make Net or similar. (Material inspected by Consignee)                                                                                                                                                                                                                                           | Numbers | 10.00   | 1372.28   | 13722.80   |
| 92 | 92 | Supply of LAN Extender (4X64 kbps) as RDSO specification No. RDSO/SPN/TC/82/2020 Rev 2.0. LAN Extender shall be capable of operation on built in AC 230 V +/-10% 50 HZ. (Material inspected by Consignee)                                                                                                                                                                           | Pair    | 4.00    | 22097.14  | 88388.56   |
| 93 | 93 | Supply of patch card 3 meter long of CAT 6 UTP Cable factory crimped. Make -D-link/Tyco/Systimax or equivalent. (Material inspected by Consignee)                                                                                                                                                                                                                                   | Numbers | 50.00   | 156.65    | 7832.50    |
| 94 | 94 | Supply of 6 patch Cord, LSHZ,moulded, 1m length, Make -D-link/Tyco/Systimax or equivalent. (Material inspected by Consignee)                                                                                                                                                                                                                                                        | Numbers | 50.00   | 109.95    | 5497.50    |

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|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|-----------|
| 95 | 95 | Supply of 10/100 Mbps single model Media converter fiber to Ethernet. Make - Techroute/Syrotek/Mrotek or similar. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pair    | 12.00 | 3300.00   | 39600.00  |
| 96 | 96 | Supply of standard 19" rack mountable -48V DC managed SDH with 4 x STM-1 (S1.1) aggregate optical interface, order wire, fully wire and equipped for 21E1 & minimum 4 port 10/100 Base T electrical interface (with LCAS and GFP) and upgradeable to full 63E1s with all common cards, installation material, DDF and all other accessories, manuals etc., with required software as per RDSO Specification No.RDSO/SPN/TC/53/2009 Rev.1 (Integrated space of STM-STM-4) or TEC GR No. GR/SDH-04/03 March 2005 with amendment No 1,2,3 & 4 with latest revision and amendments, It shall be equipped with redundant power supply card. Each node shall support mapping of management information to E1 signal and carry it to the EMS as a traffic payload as this is essential for remote management when the network is provided with multi-vendor. Any additional hardware required to support this functionality should be provided by the contractor. Item Shall be supplied as per latest TEC specifications. The item should be supplied from TEC approved manufacturer having the TEC approval on the date of opening of the tender. Equipment should be workable up to a distance of 30km. Note: If the existing NMS software can support for its all functionality with the make of the item supplied by the contractor then it is O.K. otherwise item also includes supply, installation, testing and commissioning of NMS software at the cost of the contractor. Make-Tejas or compatible with existing system. (Material inspected by RITES) | Numbers | 2.00  | 260756.30 | 521512.60 |
| 97 | 97 | Supply of 2 Mb programmable primary digital Drop insert Multiplexer operating on 48 Volts DC complete as per specification RDSO/TC-68/2012 Rev.0 with Amdt. 1 or latest .The MUX should be equipped with following minimum configuration: conference facility fully wired and equipped for 30 channels complete with 02 power supply card, remote control, supervision facility and all other accessories, installation materials, manuals etc. It should have the facility to accommodate data interface card in multi drop mode and should be able to support card needed for video conferencing and ISDN. It shall also support NMS operations from local/remote locations. This should be able to manage with the existing NMS of the section. Make-Puncom or compatible with existing system. The MUX should be equipped with following minimum configuration. I) 2 wire/4 wire E&M cards for 20 circuits. II) Subscriber loop cards for 8 circuits. III) Exchange loop cards for 4 circuits. (Material inspected by RITES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Numbers | 3.00  | 169009.60 | 507028.80 |
| 98 | 98 | Supply of 19" covered 42U rack, Val rack/ Vero president /Rattle/HCL/APC make with Glass front door complete with all fittings for housing SDH equipment, primary Muxes, DDF, MDF using Crone module, cooling fan, Power supply spike of 10 socket and other equipments like runway ladders etc. completely wired and equipped with integrated protection modules for all channels. It should be possible to lock all the equipments with only order wire telephone remaining outside the rack. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 3.00  | 36387.40  | 109162.20 |

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|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------|-----------|
| 99  | 99  | Supply of SMPS based 48 volts, 50 amps single phase 230V AC operated FR-FC battery chargers for telecom use as per specs. No. RDSO/SPN/TL/23/2008 ( ver.4) with latest amendments applicable on the date of opening of the tender, in N+1 configuration i.e. using 3 modules of 25 Amps with automatic switching between the module suitable for 300 AH MF VRLA battery bank.It shall be equiped with surge and lightning protection of class B&C along with instruction & service manual. (Material inspected by RDSO)                                                      | Numbers | 3.00    | 89090.00  | 267270.00 |
| 100 | 100 | Supply of sealed Maintenance free VRLA 48V/300AH Battery set complete with inter cell connectors consisting of cell's of 2Volt each. As per specn no IRS: S-93/96(A) with latest amendment. The battery bank shall be supplied with stackable single cell of 2 volt/300AH and shall be housed in standard trays to facilitate the required battery bank of 48 volt i.e. each set shall consist of 24 nos of stackable single cell of 2 V/300AH along with necessary inter cell connecting links., nut bolts & insulators etc. (Material inspected by RDSO)                   | Set     | 3.00    | 114410.43 | 343231.29 |
| 101 | 101 | Supply of ultra isolation transformer 230/230-1.5 KVA with MOVR protection on either side to provide X protection and supply of cross bar surge protection circuit for 48 volt DC side to provide Y protection. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                            | Numbers | 3.00    | 13437.55  | 40312.65  |
| 102 | 102 | Supply of VHF based secured communication equipment consisting of microcontroller based equipmentwith built in Voice / Data storage facilities. 25 W VHF radio with talking instrument, power supply (12 V DC / 15Amp) sealed maintenance free battery bank 12 V /120AH, Omni directional stacked dipole antenna, 50 mtrlength RG-217 cable, including portable programing anddata back up terminal as per RDSO specification no.RDSO/SPN/TC/73/2008 Ver 1.0 or latest. (Material inspected by RDSO)                                                                         | Numbers | 2.00    | 130245.65 | 260491.30 |
| 103 | 103 | Supply of 150 mm wide, 50 mm deep powder coated mild steel cable tray with cover fixed on wall/ ceiling by means of MS angle frame & anchor fasteners and laying cable therein, as per Railway's explanatory note. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                         | Metre   | 1000.00 | 287.61    | 287610.00 |
| 104 | 104 | Supply of 6 digit single sided digital clock with GPS synchronization stand alone mode LED colour RED suitable for office complex as per RDSO specification No. RDSO/SPN/TC@47>47@2008 Rev.3 and 1 or latest. This include all fixing arrangred for the hanging of clock as per the requirement. (Material inspected by Consignee)                                                                                                                                                                                                                                           | Numbers | 8.00    | 13690.00  | 109520.00 |
| 105 | 105 | Supply of push button telephones suitable for connecting with way side equipment as per TEC specification No. GR/TEL-02/04 Sept 2002 with latest amendment & to be procured from DOT/TEC approved firms. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                   | Numbers | 15.00   | 545.31    | 8179.65   |
| 106 | 106 | Supply of DAC-E1-E1 Interface for digital axle counter (SSDAC & HASSDAC) Telecom IDM Multiplexer for conversion to E1 (MROTEC'S MAPLE 4C rack mountable device consisting of four E1 ports and three slots and one slot populated with 2 W/4W E&M supporting up to eight interfaces balance two slots empty unit support both AC/DC power supply and installation including 50 pin cable one number for supporting both 2W/4W E&M, AC etc. Make MROTEK model maple 4C/4E1/AC and maple 4/M/8EM/Team Engineers FAB104C/WAVES or equivalent. (Material inspected by Consignee) | Numbers | 6.00    | 47297.02  | 283782.12 |

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|                 |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            | <b>Total</b> | <b>142871556.19</b> |
|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|--------------|---------------------|
| <b>Schedule</b> | Schedule 02-Execution |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            |              |                     |
| <b>Item- 02</b> | Execution             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            |              |                     |
| <b>S No.</b>    | <b>Item No</b>        | <b>Description of Item</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Unit</b> | <b>Qty</b> | <b>Rate</b>  | <b>Amount</b>       |
| 1               | 01                    | Installation, wiring, programming, testing, FAT, SAT & commissioning of complete yard for data input & configuration, simulation & functional testing, diagnostic & trouble shooting and commissioning of Distributed Electronic Interlocking System as per approved Signal interlocking plan and latest guidelines issued from Railway Board, RDSO and extant practice of WCR and instructions of Engineer in charge. Simulation test should be done at central cabin only and all functions of end goomties should be interfaced to central cabin on OFC. This also includes installation of Class A protection supplied under this work & provision of free signal during Pre-NI and NI work as per instruction of engineer incharge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Station     | 1.00       | 3312000.00   | 3312000.00          |
| 2               | 02                    | Modification/alteration/augmentation of existing electronic interlocking (EI) system as per RDSO/SPN/203/2011 version 2.0 with latest amendment as per approved signalling plans and selection table/locking table of stations (For phase working/modification, LC removal /IBH etc.). This also includes necessary supplies for alteration/modification VDU's software. This also include FAT, SAT, necessary alteration in earthing, data logger wiring, programming, software modification, preparation of ST/LT/RSP/PD/VDU diagram and necessary wiring, jumpering, termination, testing and commissioning of the system. This includes supply of wiring (16/0.2mm wire etc.), connector, crimping of wire, lugs, ferrul etc. as per site requirement for interface wiring. (Rate Per Station)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Station     | 2.00       | 1490850.00   | 2981700.00          |
| 3               | 03                    | Training of Sr. Engineers/Engineers/Technicians/Jr. Engineers for Installation, testing, Commissioning, Maintenance, Repair and trouble shooting of EI system. (One unit = 4 Man/day)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Numbers     | 30.00      | 20781.40     | 623442.00           |
| 4               | 04                    | Installation, Wiring, testing & commissioning of Integrated Power Supply System including Connection to change-over unit. This includes transportation, loading and unloading of IPS system complete and batteries from depot to the site of installation. All the supplies shall be wired right from IPS to power supply distribution board / rack with contractor's own wiring materials except 25sq mm wire (which is included in supply of IPS). The wiring shall be done with single core multistrand flexible copper wire of 10 Sq mm, 16 Sq mm, 25 sq mm etc. as per IS:694 of 1990 or latest as per RDSO recommendation of IPS installation. This also includes instaliation of CT rack in IPS Room, fixing of ARA/Wago terminals with connections suitable for 32 A. The 25 sq mm wire shall be used for connecting Batteries from IPS, 16 sq. mm power cable is to be used for wiring of 110V DC, 110V AC & 60V DC/24VDC (internal) and for balance power supply minimum 10 sq. mm power cable is to be used. All connectors, wiring material, ladders, DWC pipes & flexible pipes etc. as per site requirement are to be arranged by contractor as per instructions of railway engineer at site. This also includes supply, fixing and wiring of one No. exhaust fan in the IPS room. | Set         | 2.00       | 45643.06     | 91286.12            |
| 5               | 05                    | Installation, wiring, testing & commissioning of Double Line block instrument.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Numbers     | 1.00       | 13037.93     | 13037.93            |

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|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|-----------|
| 6  | 06 | Installation, wiring, testing & commissioning of VDU/KLCR boxes/ ELD/Fuse indication system & SPT etc. This includes laying & termination of cable, if any from Panel Room/IPS room/Duty room to Relay Room in GI/HDPE pipe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Station | 1.00    | 14465.69 | 14465.69  |
| 7  | 07 | Installation/shifting of Central Evaluator/ACE of Axle Counter, wiring from the CT rack to the Central Evaluator, installation and wiring of reset box, DP connection and wiring the power supply to the Central Evaluator including the supply of shielded cable of required conductor size as applicable with other accessories. Earthing to be done as per manufacturer's specification with their own material by contractor. This also includes OEM pre-commissioning check list.                                                                                                                                                                                                                                                                                                         | Set     | 4.00    | 17595.00 | 70380.00  |
| 8  | 08 | Installation of track device (double rail contact of digital axle counter) includes digging of trench, track crossing, laying of Double walled antirodent corrugated pipe from trackdevice to location box / mashroom / EJB and making its terminations. Fixing of deflector plates. (Double walled anti rodent corrugated pipe made up of High Density Polyethylene of required dia and all other accessories as per site requirement to be supplied by the contractor). Casting of foundation & erection of track side housing. Installation & wiring of EJB/Track side electronics inside the track side housing including supply of wires and other accessories. This also includes OEM pre-commissioning check list.                                                                      | Numbers | 32.00   | 14187.07 | 453986.24 |
| 9  | 09 | Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminal/Wago terminal & other necessary accessories etc. The work shall be done as per extant practice on W.C. Railways.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Numbers | 10.00   | 1807.14  | 18071.40  |
| 10 | 10 | Installation of EI Relay Rack assembly including IDF pillars complete with wall supports, scaffolding, ladders, runway for cables, Relay/Relay group base plates, fixing of Tag blocks etc. The work shall be done as per extant practice on W.C. Railway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Numbers | 5.00    | 1980.14  | 9900.70   |
| 11 | 11 | Termination of cable cores on ARA terminal/8-way/Fuse Block/Wago/Phoenix terminals on the cable termination rack. This includes all associated works of pulling out the cable from underground, dressing of cable, making wiring tree, lacing & threading with contractors own material etc. This includes soldering of armour tree/ring of cables and connecting to Earth Bus bar. The work shall be done as per approved plan, extant practice on West Central Railways & the instruction of Rly engineer at site. The termination of both ends of the cable core shall be counted as one number termination.                                                                                                                                                                                | Numbers | 5000.00 | 18.20    | 91000.00  |
| 12 | 12 | Preparation & submission of cable route plan of main & tail cables, cable corage plan, location particulars, CT rack particulars, meggering report, earth resistance particulars, traction bonding diagram and any other drawing / particular required in Auto CAD in A3 size. Each sheet should have a block for signature of Railway Officials as well as block for signature of the firm, where signature shall be put up by the authorized signatory of the firm. The name of the work as given by the Railways shall be written on every sheet under the WORK column. One complete set of tracings and four sets of copies of complete above detailed particulars / drawings along with one CD or pen drive to be supplied by the contractor in thick plastic folder. (1 Lot = 1 Station) | Lot     | 1.00    | 31328.79 | 31328.79  |

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|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|-----------|
| 13 | 13 | Fixing of Q series relay base plate/ Metal to Metal relay mini group and major group base plates, laying, lacing, dressing & packeting of 60/40/24 core PVC indoor cable and termination of 60/40/24 core cable on tag block & base plates & its soldering. Wiring of circuits to be done as per the approved diagram based on relay interlocking system using metal to metal/metal to carbon type relays and soldering after testing. This also includes fuse wiring, function wiring (Including interconnection between relay rack, & CT rack), power supply wiring (power wiring from power supply distribution board / rack to relay racks and cable termination racks with provision of wiring of ring connection with the help of contractors own single core flexible multistrand copper wire of 16 sq mm and 10 sq mm as per RDSO specification no. IRS-S 76/89 with latest amendment. 16 sq mm wire for all 110V DC, 110V AC & 24V DC internal supply and 10 sq mm wire for balance supply is to be used). Materials required like jumper wire of 0.6 mm, 1.0 mm, 16/0.02 multistrand flexible etc, resin core, solder wire, lacing thread, adhesive tapes resistance, condensers, diodes, lugs etc of various ratings and capacity as per site requirement to arranged by the contractor free of cost and used after approval of Rly engineer at site. The jumper wire of 0.6mm, 1mm , flexible wire of 16/0.02, power wire of 16 & 10 sqmm equired for carrying out the indoor work shall be supplied by contractor as per RDSO specification no. IRS-S 76/89 with latest amendment after RDSO inspection. The quantity of jumper wire should be assessed jointly with the engineer in charge in beginning itself.). The work shall be done as per approved plan extant practice on W. C. Rly & the instruction of Rly engineer at site. Required quantity of 60/40/24 core PVC indoor cables will be supplied by Railway.(Unit is Per Rack) | Numbers | 5.00    | 15356.72 | 76783.60  |
| 14 | 14 | Installation of Q series relay, Metal to Metal relay/relay groups. Energisation of the system, making the panel through, functional test as per control table with contractor's own mock panel, break test if applicable to be done in presence of Rly. Engineers. This will include wiring alterations required if any at that stage, preparation and submission of wire count detail register etc. The work shall be done as per extant practice on W.C.Rly & the instruction of Rly engineer at site. All type of resistances, capacitors etc required for commissioning have to be provided by the contractor free of cost.(Unit is Per Rack)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers | 5.00    | 1727.88  | 8639.40   |
| 15 | 15 | Excavation of trench as per cable route plan, 1.2 mtr deep, 300mm wide at the bottom along main line in normal soil, This work includes covering of cable laid in trenches by loose soil for a layer of 50 mm thickness approximately before covering by shahabad stone/bricks, clearing of route, bushes etc and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. If it is not possible to reach the required depth at any location, then the contractor shall obtain prior approval of Engineer-in-charge before commencement of cable laying process and only then shall the proportionate payment be made to the contractor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Metre   | 8000.00 | 69.17    | 553360.00 |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
TENDER DOCUMENT**

**Tender No:** BPLNWKS2023-24SIG18

**Closing Date/Time:** 26/12/2023 15:00

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|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|----------|------------|
| 16 | 16 | Excavation of trench as per cable route plan, 1 mtr deep, 300mm wide at the bottom along main line in hard soil / murum, This work includes covering of cable laid in trenches by loose soil for a layer of 50 mm thickness approximately before covering by Shahabad stone/bricks, clearing of route, bushes etc and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. If it is not possible to reach the required depth at any location, then the contractor shall obtain prior approval of Engineer-in-charge before commencement of cable laying process and only then shall the proportionate payment be made to the contractor. | Metre     | 1200.00 | 102.48   | 122976.00  |
| 17 | 17 | Excavation of cable trench 1m deep and 300mm wide across the track, for track crossing and refilling after laying of DWC/RCC/GI pipes. The work shall be done as per extant practice on W.C. Rly & instruction of Rly engineer at site. Laying of pipe covered separately.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Metre     | 1300.00 | 157.95   | 205335.00  |
| 18 | 18 | Cutting of all types of platforms, trenching & excavation to depth of 300 mm x 300mm wide approx. and refilling after lying of GI pipes and repairing the platform to restore to original condition. The work shall be done as per extant practice on W.C. Rly and as per instructions of Rly. Engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                   | Metre     | 2000.00 | 281.57   | 563140.00  |
| 19 | 19 | Cutting of all types of Roads preparatory to trenching & excavation to depth of 1 Mtr X 300 mm wide approximately and refilling, after laying of GI pipe and to restore the road to original condition. The work shall be done as per extant practice on W.C. Rly & instruction of Rly engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                           | Metre     | 1500.00 | 281.57   | 422355.00  |
| 20 | 20 | Laying of signalling/Power/Telecom cable of various cores/sizes in trenches. The work shall be done as per extant practice followed on W.C. Railway and as per the instructions of Railway Engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Kilometre | 376.00  | 7319.27  | 2752045.52 |
| 21 | 21 | Laying of GI/DWC/RCC pipes along with collars in trenches at places wherever required as per the instruction of the engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Metre     | 7500.00 | 79.13    | 593475.00  |
| 22 | 22 | Fixing of GI pipes for crossing the culverts, stone bridges etc. and concreting the ends with brick masonry at both ends as per the instructions of Rly. Engineer at site with Contractor's materials. The brick masonry at the ends shall be done with well-burnt bricks.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Metre     | 210.00  | 78.97    | 16583.70   |
| 23 | 23 | Placing and securing of cable route marker in trenches at the specified interval and at diversion joint etc. along the cable route. The work shall be done as per extant practice on WCR & the instruction of Rly engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Numbers   | 180.00  | 18.58    | 3344.40    |
| 24 | 24 | Cement, concrete work in the ratio of 1:3:6 with contactor's own material as per instruction of site engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | cum       | 189.00  | 4552.95  | 860507.55  |
| 25 | 25 | Providing brick masonry in ratio of 1:6 cement & sand including plastering 20 mm thick on each side with 1:4 cement and sand mixture with contactor own second class bricks, sand, cement including excavation, curing, grouting bolting etc. where required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cum       | 10.00   | 4777.89  | 47778.90   |
| 26 | 26 | Excavation to railway specification in ordinary soil, black soil or soft murum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cum       | 49.00   | 100.60   | 4929.40    |
| 27 | 27 | Installation, wiring & programming of MAPLE4C and ECAT system for connectivity of UFSBI, BPAC, SPT, Datalogger etc. on OFC terminated. Per Unit= Per Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Numbers   | 6.00    | 14671.46 | 88028.76   |

**BHOPAL DIVISION-S AND T/WEST CENTRAL RLY  
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**Tender No:** BPLNWS2023-24SIG18

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| 28 | 28 | Blowing and drawing of OFC through already buried HDPE duct, taking due care while transporting and sealing both the ends after blowing. The cable should be blown according to the technical instructions of the manufacturer and the instructions of the site in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kilometre | 5.00    | 19325.36 | 96626.80   |
| 29 | 29 | Transportation and Laying of HDPE pipe as per approved cable route plan in the excavated trench, taking due care while transporting and laying the same in the trenches or other protective works. Both the ends of the duct should be sealed with end plugs before laying and should remain sealed till blowing is done.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Kilometre | 9.00    | 7947.50  | 71527.50   |
| 30 | 30 | Laying of half round RCC pipe after laying the cables in the trenches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Metre     | 4000.00 | 22.61    | 90440.00   |
| 31 | 31 | Splicing of 24 fibre OFC from both sides for straight through joint and testing. This includes excavation of pit & back filling & supply of all type of material and any other equipment of all types required for splicing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers   | 26.00   | 6718.19  | 174672.94  |
| 32 | 32 | Splicing, Termination, Testing & Commissioning of 24 fiber cable in fiber management system with all installation material, connectors, fittings etc. as per instructions of site engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers   | 1.00    | 13127.04 | 13127.04   |
| 33 | 33 | Installation of Thermo-shrinkable jointing kits for making (a) straight through joints without transformer for 6-quad Jelly filled cable, (b) Derivation joint without transformer for 6-Quad Jelly filled cable, and (c) Straight Through joint without transformer for 10 Pr/20Pr/PIJF cables and construction of Brick Chamber for protection of joints with contractor's own materials. All the materials required for the work are to be arranged by the contractor himself at his own cost except Thermo-shrinkable jointing kit which is already covered in supply portion of the tender. After jointing the cable test such as insulation test, Continuity cable losses etc. to be carried out jointly with the Railway Engineer. If any defect or any damage observed during jointing, the contractor should redo the joint free of cost. | Numbers   | 20.00   | 3351.23  | 67024.60   |
| 34 | 34 | All works pertaining to horizontal directional drilling (HDD)/boring and trenchless cabling. It includes supply, transportation and insertion of self lubricated HDPE pipe and laying of cable in boring under the track/road/platform/circulating area by using different size of pipes depending on the total number of cables will be crossed. The depth of horizontal boring should be minimum 2 meter and upto 3 meter from rail flange/road level/ ground level as per direction of Engineer in-charge. This item will be used for track crossing of running line, road croosing, circulating area and at any other location as per instruction of site engineer. By using self lubricated HDPE pipe of 200 mm outer dia and 175 mm inner dia in the bore and laying of cable in the bore under the track/road/circulating area etc.         | Metre     | 7000.00 | 1134.08  | 7938560.00 |
| 35 | 35 | Excavation, casting and plastering (above ground level) of Apparatus case foundation with contractors own Metal Sheet frame, cement, anchor bolts with nuts & washers and other materials. The items also include additional earth work if required as per instruction of Rly. Engineer at site. single case as per Drg. No. JBP/S&T/C/84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers   | 70.00   | 13391.48 | 937403.60  |

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| 36 | 36 | Excavation, casting and plastering (above ground level) of Apparatus case foundation with contractors own Metal Sheet frame, cement, anchor bolts with nuts & washers and other materials. The items also include additional earth work if required as per instruction of Rly. Engineer at site. Half case as per Drg. No. JBP/S&T/C/85                                                                                                                                                                                               | Numbers | 40.00    | 12907.10 | 516284.00 |
| 37 | 37 | Erection of apparatus cases. This includes filling of location foundation with river bed sand and plastering on top of the sand. Single case                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 70.00    | 1405.07  | 98354.90  |
| 38 | 38 | Erection of apparatus cases. This includes filling of location foundation with river bed sand and plastering on top of the sand. Half case                                                                                                                                                                                                                                                                                                                                                                                            | Numbers | 40.00    | 1074.46  | 42978.40  |
| 39 | 39 | Fabrication and fixing of phenolic board in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. Lasing and dressing of cables/wires terminated with contractors own supply of lasing thread. The work shall be done as per instructions of Rly engineer at site. Single case                                                                                                                                 | Numbers | 70.00    | 2193.49  | 153544.30 |
| 40 | 40 | Fabrication and fixing of phenolic board in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. Lasing and dressing of cables/wires terminated with contractors own supply of lasing thread. The work shall be done as per instructions of Rly engineer at site. Half case                                                                                                                                   | Numbers | 40.00    | 1976.75  | 79070.00  |
| 41 | 41 | Installation of Eqpt. (Relays, resistance, chargers & batteries etc.) & wiring of the same in apparatus cases as per location & circuit diagrams with contractor's own PVC wires and wiring material. The work shall be done as per instruction of Rly engineer at site and approval of wiring material ( from RDSO approved firms) being used and extant practice in W.C. Rly. Wiring of relays should be with 16/0.2mm wire and all other equipments wiring by 2.5 sq mm multi strand wire of IS:694 of 1990 or latest. Single case | Numbers | 70.00    | 2359.21  | 165144.70 |
| 42 | 42 | Installation of Eqpt. (Relays, resistance, chargers & batteries etc.) & wiring of the same in apparatus cases as per location & circuit diagrams with contractor's own PVC wires and wiring material. The work shall be done as per instruction of Rly engineer at site and approval of wiring material (from RDSO approved firms) being used and extant practice in W.C. Rly. Wiring of relays should be with 16/0.2mm wire and all other equipments wiring by 2.5 sq mm multi strand wire of IS:694 of 1990 or latest. Half case    | Numbers | 40.00    | 1641.49  | 65659.60  |
| 43 | 43 | Fixing of ARA /WAGO Terminals and fuse blocks with provision of holes on hylem sheets and fixing by galvanised nuts & bolts. This includes provision of two additional holes on the hylam board on either side for cable conductor entry. The work shall be done as per Engg. at site.                                                                                                                                                                                                                                                | Numbers | 35000.00 | 13.44    | 470400.00 |

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| 44 | 44 | Termination of cable cores on ARA/ disconnecting type terminal, fuse blocks, 8 way terminals block in the apparatus cases. This includes all associated works of pulling out the cable from underground, dressing of cable, making wiring tree etc. This includes soldering of armour tree/ring of cables and connecting to copper plate through GI wire bus bar in location boxes. The work shall be done as per location plans and instructions of Rly engineer at site. Both side termination on wago/ARA/8 way terminal shall be counter as one unit.                                                         | Numbers | 35000.00 | 18.20    | 637000.00 |
| 45 | 45 | Excavation, casting and plastering (above ground level) of main signal foundation as per WCR standard practise & drawing with contractor's own materials including cement and galvanised anchor bolts of standard size. The hole for cable entry should be kept as per site requirement and instruction of Rly engineer at site. The required scaffolding Ferma etc. for casting of foundation will have to be brought by the contractor at his own cost.                                                                                                                                                         | Numbers | 53.00    | 12945.40 | 686106.20 |
| 46 | 46 | Excavation, casting and plastering (above ground level) of Shunt Signal foundation as per WCR standard practise & drawing with Contractor's own materials including Cement and galvanised Anchor Bolts of Standard Size. The hole for cable entry should be kept as per site requirement and instruction of Rly engineer at site. The required scaffolding, Ferma etc. for casting of foundation will have to be brought by the Contractor at his own cost.                                                                                                                                                       | Numbers | 25.00    | 3841.90  | 96047.50  |
| 47 | 47 | Erection of CLS Post with Surface base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates and A/AG/C/P/G marker board , protective screen, blanking of ladder (0.6mm MS sheet) if any with contractors own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. Wooden white cross- arms (1000x100 mm) to be provided by the contractor till the signals are commissioned with contractor's own material. | Numbers | 53.00    | 4468.95  | 236854.35 |
| 48 | 48 | Erection of shunt signal with Surface Base, Post, Signal unit and fixing of No. plates. The work shall be done as per instructions of Rly engineer at site. Wooden white cross-arms (1000x100 mm) to be provided by the contractor till the signals are commissioned with contractor's own material.                                                                                                                                                                                                                                                                                                              | Numbers | 25.00    | 618.92   | 15473.00  |
| 49 | 49 | Fixing of all types of Jn. Route Indicators on the top of the signal post.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers | 48.00    | 1067.19  | 51225.12  |
| 50 | 50 | Termination of tail cable on main & auxiliary signal units and wiring with contractor own material, fixing of LED signal units etc. Flexible Single core copper wire 2.5 sq.mm (50/0.25) conforming to IS-694:1990 (as per aspect colour) and lugs etc. will be supplied by the contractor. This includes insertion of tail cables from ground to signal unit. The work shall be done as per instruction of Rly engineer at site.                                                                                                                                                                                 | Numbers | 53.00    | 1549.23  | 82109.19  |
| 51 | 51 | Termination of tail cable on Shunt signal units and wiring with contractor own material, fixing of LED signal unit etc. Flexible Single core copper wire 2.5 sq.mm (50/0.25) conforming to IS-694:1990 copper wire as per Rly. Standard and lugs etc. will be supplied by the contractor. This includes insertion of tail cables from ground to signal unit. The work shall be done as per instruction of Rly engineer at site.                                                                                                                                                                                   | Numbers | 25.00    | 505.99   | 12649.75  |

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| 52 | 52 | Provision of screen on signal when they fall within 2 meter from the live conductor by expanding metal size 20mm x 60 mm (stand 3.25mm wide and 1.6mm thick) as per instructions of Rly engineer at site. This includes supply of all materials related to mesh loop/protection screen to be supplied by contractor and connected rope wire from signal top to earth electrode with nuts & bolts & earth electrode supplied by railway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 22.00  | 7711.79  | 169659.38 |
| 53 | 53 | Installation & fixing of earth electrode assembly as per drg. No. CR/SK-753 including earth wire connected through GI wire 8 SWG supported on M.S. flat of size 6mm x 40mm to earth electrode for signaling Equipment such as lever frames, apparatus cases, signals, relay racks, block instruments etc. as per RE manual. The earth value should be less than 10 ohms including the lead wire. It should be documented and painted on earth enclosure made of concrete (only earth electrodes will be supplied by Rly.) Contractor will bring Earth enclosure and all other material required for provision of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Numbers | 220.00 | 2748.46  | 604661.20 |
| 54 | 54 | Installation of maintenance free earth as per item supplied against this work with contractors own materials required for the same. This includes: I. Digging/Auguring/Boring of single earth pit of 100mm to 125mm dia to the depth of approximate 2.8M II. Insertion of 3 Mtr electrode and penetrating it at least 0.2 Mtr. By pushing gently with sledge hammer where the neutral soil is assumed. III. Filling of earth pit with earth enhancement compound (EEC) in slurry form and back filling. IV. Carrying out exothermic weld connection of single earth electrode to a copper tape of 150 x 25 x 6 mm V. Filling of earth pit with earth enhancement compound (EEC) in slurry form and back filling. VI. Carrying out exothermal weld connection on the copper tape of 150 x 25 x 6 mm on earth electrode for connecting two 35 Sq.mm cable for redundancy VII. The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms which include graphite moulds, clamps, weld metal powder. VIII. 300 mm X 300 mm X 300 mm (inside dimension) concrete earth pit with a concrete lid approximately 50 mm thick with pulling hooks shall be provided to cover the pit. Back side of the cover will be painted in black and date of testing and average earth resistance value shall be written. | Numbers | 12.00  | 11223.95 | 134687.40 |
| 55 | 55 | Erection, Fitting and Rail connection of Track Lead Junction Box with contractor's fixing material and jacketed wire rope including 7mm single groove galvanized channel pin for track lead connection including angle of size 40 x 40 x 5 mm 1200 mm length. This will include drilling of holes in rails for track lead connections as per instructions of Rly engineer at site. PVC jacketed galvanized steel wire ropes of 6mm dia (7 x 19 strands) sheathed with PVC of 2mm wall thickness and over all thickness of 10mm for connection between the TLJB and the rails are to be used and to be supplied by the contractor. PVC sheath should be made of type 6 compound as per IS 5831 of 1970. Double wire ropes are to be connected between each rail and TLJB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Numbers | 210.00 | 1459.52  | 306499.20 |

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| 56 | 56 | Provision of bonding with contractor's materials including 7mm single groove galvanized channel pin. This will include drilling of 7.2 mm dia holes in rails (4 Nos) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own materials and tools as per instruction of Rly engineer at site GI wires of 4mm dia (8 SWG) are to be used for jumpers across fish plates which should be supplied by the contractor free of cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Numbers | 420.00 | 167.43   | 70320.60  |
| 57 | 57 | Charging of Low Maintenance Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice on W.C. Rly & the instruction of site engineer. The sulphuric acid & distilled water to be used for charging shall conform to specification IS 266- 1961 & IS 1070-1960 respectively. 1 No. = Per 100AH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Numbers | 250.00 | 103.11   | 25777.50  |
| 58 | 58 | Fixing of Electrical high thrust (220mm) point machine on the extended sleepers at thick web point as per section of rails used. Item included fixing of switch extension bracket,fixing ground connection, adjusting opening of the switches and adjusting of the point machine with crank handle .The item also includes: (i) Complete material for installation of point machines and fixing of ground connection/switches extension bracket like point insulator materials, S pipe, wiring materials Various fixing nuts & bolts including casting nuts, spring washers, etc. (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate. (iv)Wiring inside the point machine, insertion and termination of tail cable in point machine and junction box /cable hut as per extent practice of WCR and the instruction of railway Engineer at site. (v) Supply and fixing of suitable Size GI pipes with flange for taking cable in to point machine. Electricals point machine, ground connection and M6 Screw less terminals will be supplied by Railways, covered in Schedule separately. | Numbers | 10.00  | 21720.23 | 217202.30 |

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| 59 | 59 | Fixing / Refixing of electrical pointmachine on existing layout, ground connection during phase working (NI/ Pre NI) after removing the electrical point detector, FPL assembly andmechanical or any other fittingsincluding existing Pt. m/c fitting if any, adjustment if necessary, wiringof point machine testing andcommissioning of electricallyoperated point, fixing and connectingpoint indicator on derail switch ifnecessary. This will include fixing of GI bend pipes of "S" shape of 1.2meter length & 50mm dia withwelded frame for cable entry to thepoint machine and termination of tailcable in point machine and wiringservicing of point machine & supplyand filling of SAE 30 lubrication oil .This also includes installation of William stretcher nylon insulation set(complete), Tongue attachment nylon insulation set and Gauge Tie plate nylon insulation set as per RDSO specification. The work shall be doneas per extant practice on W.C.Railway and the instructions of Railway Engineer at site. Internal wiring of Point machine & cable termination suitable for EI/PI/RRI installation, 2.5sq.mm (50/0.25) conforming to IS-694:1990 flexible copper wire of different colours & lug will besupplied by contractor. Point machine, ground connection,insulation sets will be supplied byRailways. This includes drilling ofholes in tongue rail, provision of highdi-electric varnish on contactassembly and wiring during NIperiod. This also include re wiring ofpoint machine if required as per type of point machine & circuit(independent detection) & as perinstruction of site engineer. To reduce the No. of days of NI, the existing point machines may be replaced with new point machines and operated from existing panel. During pre-NI /NI, rewiring at MCTB/locationbox/point machine shall be carriedout as per the requirement withoutany additional cost.(Rate Per Point) | Numbers | 38.00 | 5894.02 | 223972.76 |
| 60 | 60 | Lettering & Numbering of detail and description writing of particulars of terminations & equipments on relay rack, relays, cable termination rack, battery & power equipments, IPS, operating panel, axle counter etc constituting entire system with contractor's own paint and writing material ("Asian" make or similar enamel paints or similar paint only to be used). This includes supply and fixing of teflon strips 3mm thick and 25 mm wide for each row of relays and cable terminations. The work shall be done as per extant practice on W.C. Rly & instruction of Rly engineer at site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Station | 1.00  | 6048.94 | 6048.94   |
| 61 | 61 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Appratus case full size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Numbers | 70.00 | 628.32  | 43982.40  |

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|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|---------|----------|
| 62 | 62 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Apparatus case Half size                                                                                 | Numbers | 40.00  | 470.04  | 18801.60 |
| 63 | 63 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Main Signal post with signal unit, surface base and complete fittings as per W.C.Rly. Standard practice. | Numbers | 53.00  | 1064.81 | 56434.93 |
| 64 | 64 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Shunt Signal post with signal unit, surface base as per W.C. Rly. Standard practice.                     | Numbers | 25.00  | 254.20  | 6355.00  |
| 65 | 65 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Track lead junction box. (Black enamel out side only)                                                    | Numbers | 210.00 | 124.70  | 26187.00 |

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|----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|----------|-----------|
| 66 | 66 | Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both Asian paints / Berger / Shalimar are to be supplied by Contractor. The work shall be done as per instructions of Rly engineer at site and extant practice on W.C Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals, point machine, TLJB, Block joints, apparatus cases also Termination particulars, equipment names etc. legibly and neatly inside location boxes etc. Point machine with ground connection complete. (Point machine with black enamel only out side and ground connection with red oxide)                                                                                                                         | Numbers | 50.00  | 220.61   | 11030.50  |
| 67 | 67 | Lettering numbering of signals, point machine, track lead junction boxes, block joint, appratas cases etc. (each item to be taken as one unit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Numbers | 448.00 | 84.68    | 37936.64  |
| 68 | 68 | Lettering numbering termination particulars, equipments names etc legibly and neatly inside location boxes. Single case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Numbers | 70.00  | 381.30   | 26691.00  |
| 69 | 69 | Lettering numbering termination particulars, equipments names etc legibly and neatly inside location boxes. Half case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Numbers | 40.00  | 215.85   | 8634.00   |
| 70 | 70 | Dismantling of Concrete foundations/Demolishing RCC/CC/Stone Work/Cutting Tarcarpenting/CC Flooring/Pre-cast Concrete slabs etc. including leading the debris inside Railway limit or outside Railway limit as directed by Engineer in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | cum     | 110.00 | 648.56   | 71341.60  |
| 71 | 71 | Releasing of all equipments of Relay room/ Axle Counter room/ IPS room/ Battery room / ASM room/ ESM duty room / Data Logger room, Cabin basement and Lever Frames, covering the entire indoor signaling gears. It also includes releasing of entire outdoor signaling gears in connection with points, signals, track circuits, LC gates, lever frames etc. complete including location boxes, rodding/wire run, equipment inside the location boxes including the breaking & Removing of foundation which are obstructing Track/ Pathway as per the instruction of Railway Engineer at site & their transportation to SSE/Sig/store/BPL depot with MS/CI/ wooden materials duly seggregated. The above list is only indicative, the contractor has to release all old equipments as per pre-commissioning survey and instruction of Railway Site Engineer. | Lot     | 1.00   | 34777.45 | 34777.45  |
| 72 | 72 | Provision of temporary Gumti of 3Mtr x 3Mtr x 2.5Mtr o n hire for NI working made of water proof tent (Coverd on three sides of wall) with provision of good quality turpolene mat laid inside full floor area of Tent, two tables two chairs, Water dispenser with 5 mineral water bottle refills of 20 ltr each and two incandescent lamps/ Emergency Light as per instructions of Railway Engineer at Site. (Electrical connection will be provided by Railway). (01 Numbers = 01 Gumti Per day).                                                                                                                                                                                                                                                                                                                                                         | Numbers | 80.00  | 1569.36  | 125548.80 |
| 73 | 73 | Patching work in existing locationconsisting (i) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes, removal of sand , from location, marking of newcable hole. (ii) Insertion of cable fromground. (iii) making place from cabletermination in old location, shifting ofARA, fuse etc after removal oftermination, including shifting of ARA.(iv) Termination of cable in old location. (v) Sand filling and plaster                                                                                                                                                                                                                                                                                                                                                                                                      | Numbers | 50.00  | 9824.18  | 491209.00 |

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|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|------------|
| 74 | 74 | Shifting of Existing apparatus case with foundation by crane or by other means upto 2-20 Mtr decided as persiteengineer. (During shifting of location boxes signalling gears disconnection will be taken by railway representative). This includes excavation of earth around locationbox, all type of labours charges and filling of locations foundation with river bed sand and plastering on top of the sand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Numbers | 25.00   | 9588.65  | 239716.25  |
| 75 | 75 | Modification/Shifting of existing track device: Installation of track device (double rail contact of digital axlecounter) includes digging of trench,track crossing, laying of Double walled anti rodent corrugated pipe from trackdevice to location box and making its terminations. Fixing of deflectorplates. (Double walled antirodent corrugated pipe made up of High Density Polyethylene of required diaand all other accessories as persiterequirement to be supplied by the firm) this also includes supply of HDPE pipes for laying of transmitterand receiver cables for rail contactsto location box. Casting of foundationfor track side housing & erection of track side housing if required.Installation & wiring of EJB / Trackside Electronics inside the track sidehousing (this housing will be suppliedand installed on foundation by thecontractor with his own material)including supply of wires and other accessories. This also includes releasing of existing track device &EJB from site, painting and writing ondetection points and track side housing covers. This also includes OEM pre-commissioning check list. | Numbers | 60.00   | 17061.30 | 1023678.00 |
| 76 | 76 | Design of circuit alterations to existing circuits in connection with station. One set of existing circuits of the concerned LC gate/IBH will be supplied. The contractor has to design & submit the Altered Circuits for approval of CSTE office, before carrying out wiring alterations at site.New tracing of the altered sheets shall be submitted after the circuits are approved in A3/A4 size,similar to existing circuits. The tracing should be done on Autocad 2000 and contractor has to submit the same in Floppys and CD also.(Unit=Per LC Gate/IBH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Numbers | 2.00    | 23843.57 | 47687.14   |
| 77 | 77 | Releasing of existing tail cable and bend pipe, if any, from the existing point machine. This includes fixing of GI bend pipe and bolt of suitable size to fix the bend pipe and other consumable materials will be supplied by the contractor. Extra loop of newly laid cable will be secured at one meter depth after fixing of bend pipe.This includes termination of point tail cable with provision of wago strips ( wago will be supplied by railway) and wiring of point machine as per stanadard diagram. Bend pipe will be supplied by the railway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Numbers | 70.00   | 2521.95  | 176536.50  |
| 78 | 78 | Circuit wiring/Jumpering as per circuit diagrams in the existing relay rack /IDF rack tag block for alteration work. This include preparation of jumper sheet by wire man duly checked by firm site supervisor &wire to wire testing as per circuit diagram. Any wrong jumper done by wireman will not be paid & correction shall be made free of cost. Jumper wire will be supplied by the Railway. Good quality solder resin core to be supplied by the contactor forsoldering of jumper wires. Solderingof jumper wires to be done after completion of testing by Railways. (Rate per jumper)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Numbers | 9500.00 | 18.18    | 172710.00  |

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|                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |         |              |                    |
|-----------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|--------------|--------------------|
| 79              | 79                                | Installation,wiring & testing of SDH / STMs with all accessories, DDF with miniature 'U' link type for 63 E1s, ( runway ladder in already installed) 42-U Euro rack. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH with all interface cards to the 48V Bus including supply of wires and connectors, termination of all E1s on DDF. This includes all the sundry material required for installation with all accessories, as per the instruction of site Engineer.                                                                                                                                                                                                                                                                                                                                             | Numbers   | 2.00    | 18526.35     | 37052.70           |
| 80              | 80                                | Installation and wiring of Primary Drop insert Mux with all interface cards, connection to 48V bus bar and termination of VF/Data interface circuits to the Krone MDF in already installed 42-U Euro rack. This includes termination of PVC cable at both ends and taking PVC cable over runway or on the wall. This also includes supply of PVC cable of conductor size 0.63 mm.& 100 pair krone type D.P Krone shall have both current & voltage protection arrangement, as per the instruction of site Engineer.                                                                                                                                                                                                                                                                                                                                                                           | Numbers   | 3.00    | 6761.67      | 20285.01           |
| 81              | 81                                | Installation, wiring and commissioning of 48 volt battery set fully charged, battery charged and Ultra isolation transformers at each station. Tish include supply of 51 strand of 0.75 mm each strand paramite battery wire in two colour of appropriate length ,connection of power supply to the equipments trough suitable casing capping as per the instruction of Engineer incharge of Railway at site .This also include supply & installation of necessary fuses ,provision of teak wood planks strand (to be approved by railway before supply) of suitable size for resting of batteries,battery chargers & ultra isolation transformer. All the materials required for installation of this item shall be supplied by the contractor.. NOTE:- Before installation of batteries contractor has to ensure that batteries are fully charged, as per the instruction of site Engineer. | Numbers   | 3.00    | 5035.26      | 15105.78           |
| 82              | 82                                | Laying & drawing of OFC cable in trench/HDPE duct as per the instruction of site Engineer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kilometre | 3.00    | 7918.62      | 23755.86           |
| 83              | 83                                | Laying of Power cable/data cable and other telecom cable through casing capping/fall celing with laying/fixing of HDPE pipe/casing capping for networking system and for connecting/inferacing various component (cutting of masonry wall at the entry of room, repairing of masonry wall, cement plastering at site requirement are to be supplied by contractor) and system integration. All materials for jointing and termination of power cable/CAT-6 cable as per site requirement are to be supplied by contractor.                                                                                                                                                                                                                                                                                                                                                                    | Metre     | 500.00  | 24.89        | 12445.00           |
| 84              | 84                                | Laying of UTP CAT6/PVC cable through steel pipes/casing capping etc. This includes fixing and clipping of casing capping etc wall/floor/roof. This includes fixing and clipping of casing capping/Rosette boxes at the location/sites as per the direction of the enginner in charge of the work with all necessary fitting materials and cutting of masonry wall at the entry of room, reparing of masonry wall, cement plastering at per site requirement are to be supplied by contractor.                                                                                                                                                                                                                                                                                                                                                                                                 | Metre     | 500.00  | 12.10        | 6050.00            |
| 85              | 85                                | Erection/fixing of 150 mm wide, 50 mm deep powder coated mild steel cable tray with cover fixed on wall/ ceiling by means of MS angle frame & anchor fasteners and laying cable there in as per Railway's explanatory note.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metre     | 1000.00 | 49.95        | 49950.00           |
|                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |         | <b>Total</b> | <b>31370896.03</b> |
| <b>Schedule</b> | Schedule 03-Supply & Installation |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |         |              |                    |

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| Item- 03 Supply & Installation |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |           |            |
|--------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------|------------|
| S No.                          | Item No | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit    | Qty    | Rate      | Amount     |
| 1                              | 01      | Supply and installation of Permetric earth (Maintenance Free Earth) arrangement as per RDSO Spec. No. RDSO/SPN/197/2016 Version 1.0 or latest. This also includes supply of all required materials along with Maintenance free earthing item as per latest RDSO Guideline for commissioning of Permetric earth covering the entire building. Earthing shall comply all guidelines specified in RDSO TAN No. STS/E/TAN/3006 dated 02.11.2012. (Unit - Per Cabin) (Material inspected by RDSO) | Lot     | 2.00   | 246304.88 | 492609.76  |
| 2                              | 02      | Supply, installation, testing & commissioning of Data logger for monitoiring 1536 digital and 48 analog inputs as per RDSO Specification IRS:S:99/2006 with latest amendment. Each Data logger shall be supplied with power supply for adequate capacity, battery, fault diagnostic (Annexure-V) and A4 colour printer (Annexure-V) for analysis, dual E1 Modem. (Material inspected by RDSO)                                                                                                | Numbers | 2.00   | 529800.32 | 1059600.64 |
| 3                              | 03      | Supply, installation, testing & commissioning of Multi port Front End Processor as per RDSO specification IRS: S-99/2006 with latest amendment compatible with data logger supplied under this work. (Material inspected by Consignee)                                                                                                                                                                                                                                                       | Numbers | 2.00   | 28471.60  | 56943.20   |
| 4                              | 04      | Supply, Installation, Testing and commissioning of adressable Fire alarm Control panel as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                          | Numbers | 2.00   | 118443.13 | 236886.26  |
| 5                              | 05      | Supply, Installation, Testing and commissioning of Manual call point as per RDSO Specification RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                         | Numbers | 2.00   | 7744.35   | 15488.70   |
| 6                              | 06      | Supply, Installation, Testing and commissioning of addressable loop powered wall sounder Beacone as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                | Numbers | 2.00   | 9329.67   | 18659.34   |
| 7                              | 07      | Supply, Installation, Testing and commissioning of heat and smoke multisensor as per RDSO Specification No. RDSO Specification RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                | Numbers | 30.00  | 6559.92   | 196797.60  |
| 8                              | 08      | Supply, Installation, Testing and commissioning of Linear heat sensing (LHS) cable as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                              | Metre   | 600.00 | 819.99    | 491994.00  |
| 9                              | 09      | Supply, Installation, Testing and commissioning of Linear heat sensing (LHS) interface module for LHS cable as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                     | Numbers | 2.00   | 78354.68  | 156709.36  |
| 10                             | 10      | Supply, Installation, Testing and commissioning of aspirating (air sampling) type smoke detector as per RDSO Specification RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                    | Numbers | 2.00   | 298294.45 | 596588.90  |
| 11                             | 11      | Supply, Installation, Testing and commissioning of Fire survival circuit integrity cable each lot having 200 mtr. Cable with all accessories connecting of all fire alarm devices as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                               | Lot     | 2.00   | 36444.03  | 72888.06   |

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| 12 | 12 | Supply, Installation, Testing & Commissioning of Analog Addressable Type Monitor Modules with inbuilt fault isolator or alternate arrangement which shall isolate the module in case of short circuit the module should have visual indication for its operation & complying to RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                        | Numbers     | 18.00   | 9778.64  | 176015.52 |
| 13 | 13 | Supply, Installation, Testing and commissioning of addressable loop powered control module fitted with bi-directional inbuilt isolator as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                          | Numbers     | 3.00    | 5154.66  | 15463.98  |
| 14 | 14 | Supply, Installation, Testing and commissioning of isolator base for heat and smoke detector as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                    | Numbers     | 30.00   | 2193.47  | 65804.10  |
| 15 | 15 | Supply, Installation, Testing and commissioning of 2 C 1.5 Sq mm twisted shield armoured copper cable with accessories as per RDSO Specification No. RDSO/SPN/217/2021 Rev. 3.0 with latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                          | Metre       | 300.00  | 71.06    | 21318.00  |
| 16 | 16 | Supply, Installation, fixing, Wiring, Testing & commissioning of MSDAC Indication/Alarm panel system. It shall consist of 200 LED's of 10mm size fabricated in a box of 15mm waterproof ply as per instruction of site incharge. (Material inspected by Consignee)                                                                                                                                                                                                                           | Lumpsum     | 2.00    | 21806.13 | 43612.26  |
| 17 | 17 | Supply and fixing of compact laminated sheet 20 mm for keeping S&T equipments as per instructions of Engineer at site. Commercially available thickness will be accepted as approved by Engineer in charge. This item includes supply of fixing materials like Nut, Bolts, Screw, Nails etc. Table for keeping axle counter resetting box and block instruments etc. can also be fabricated under this item as per the design given by engineer in charge. (Material inspected by Consignee) | Sqm         | 40.00   | 5204.14  | 208165.60 |
| 18 | 18 | Supply, laying & fixing of Anti Static vinyl Flooring with black conductive layer sandwiched between two antistatic layer thickness of 2mm ± 01mm self fire extinguishing as approved by engineer incharge. (Material inspected by Consignee)                                                                                                                                                                                                                                                | Square Foot | 5000.00 | 20.62    | 103100.00 |
| 19 | 19 | Supply and installation of 24 port L2 manageswitch as per the RDSO spec. RDSO/SPN/TC/83/2020 Rev 2.1 or latest with 2SFP ports loaded for single mode fiberconnectivity. make- CISCO, Netgear, TP-link, D-link or similar. (Material inspected by Consignee)                                                                                                                                                                                                                                 | Numbers     | 5.00    | 47621.15 | 238105.75 |
| 20 | 20 | Supply, installation and commissioning of CAT6 I/O face plate back box as per TS-14. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                       | Numbers     | 25.00   | 171.82   | 4295.50   |
| 21 | 21 | Supply & Installation of 19" mount equipment Racks 9 U for housing telecom equipment with hinge doorcooling fan, 5 Socket power extension board, cable manager, partition tray and accessories with locking arrangement on door and wall mount arrangement. Make - Comrack, Rittel, APW, HCL, D-LINK or similar. (Material inspected by Consignee)                                                                                                                                           | Numbers     | 2.00    | 9950.00  | 19900.00  |
| 22 | 22 | Supply, Installation, testing and commissioning of UPS 5KVA capacity with battery bank for 1 hrs (ON Line ) at rated load & battery trolley as per specification no RDSO/PE/SPEC/PS/0023(Rev. '0') 2001 Amdt 4 or latest. (Material inspected by Consignee)                                                                                                                                                                                                                                  | Numbers     | 2.00    | 65750.69 | 131501.38 |

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| 23              | 23                       | Supply and Installation of Multi Telephone Way station equipment with necessary mounting arrangement on standard 19" rack. It shall be (-) 48 Volt operated as per RDSO specification No. RDSO/SPN/TC/66/2007 Ver1.0 with amdt. 03 or latest. The equipment supplied in this work should be compatible with the existing system . The equipment supplied in this work should be compatible with the existing system (make-Marvel/Bentron or equivalent). (Material inspected by RITES)                                                                                                                                                                                                             | Numbers | 10.00  | 66080.00     | 660800.00         |
|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------------|-------------------|
| 24              | 24                       | Supply and installation of 20 pair CT box. (Material inspected by Consignee)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Numbers | 10.00  | 2731.60      | 27316.00          |
| 25              | 25                       | FDMS: Supply and Installation of 24 Fiber (i.e. armoured type fiber) input and 24 output 19" rack mount FMS or Birla, TVSE, 3M, Raychem or similar make having APC E2000 type connectors & pigtails should be of corning fiber, 5meters & 900 Microns with all installation material, splicing, termination and testing of 2X24 fibers of cable with all connctors material as per instructions of site engineer. (Material inspected by Consignee)                                                                                                                                                                                                                                                | Numbers | 5.00   | 59292.68     | 296463.40         |
|                 |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        | <b>Total</b> | <b>5407027.31</b> |
| <b>Schedule</b> | Schedule 04-Store Supply |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        |              |                   |
| <b>Item- 04</b> | Store Supply             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        |              |                   |
| S No.           | Item No                  | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit    | Qty    | Rate         | Amount            |
| 1               | 01                       | Supply of main LED signal UNIT 110V/AC as per RDSO specification No. RDSO/SPN/153/2011 Rev. 4.1 or latest. amendment suitable for existing CLS housing unit. RED Aspect (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Numbers | 50.00  | 9335.79      | 466789.50         |
| 2               | 02                       | Supply of main LED signal UNIT 110V/AC as per RDSO specification No.RDSO/SPN/153/2011 Rev. 4.1 or latest amendment suitable for existing CLS housing unit. YELLOW Aspect (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Numbers | 75.00  | 9335.79      | 700184.25         |
| 3               | 03                       | Supply of main LED signal UNIT 110V/AC as per RDSO specification No. RDSO/SPN/153/2011 Rev. 4.1 or latest. amendment suitable for existing CLS housing unit. GREEN Aspect (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Numbers | 30.00  | 10590.68     | 317720.40         |
| 4               | 04                       | Route LED Signal Lighting 110 V Ac in existing CLS housing and compatable with AC LED ECR as per RDSO Spec. No. RDSO/SPN/153/2023 Revision 5.0 or latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Numbers | 150.00 | 5742.88      | 861432.00         |
| 5               | 05                       | Shunt LED Signal Lighting 110 V Ac in existing CLShousing and compatable with AC LED ECR as per RDSO Spec. No. RDSO/SPN/153/2023 Revision 5.0 or latest amendment. (Material inspected by RDSO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Numbers | 150.00 | 5742.88      | 861432.00         |
| 6               | 06                       | Supply and commissioning of SMPS based IPS system for RE area as per RDSO Specification No. RDSO/SPN/165/2012 (Ver. 3.0) with latest amendment (suitable for 6 line EI station) along with supply of spare and tools for IPS. For connecting IPS battery bank, 30 meter each of Red & black colour cable of size as per battery AH capacity is to be supplied by the tenderer. 12 CoreX 1.5 sq. mm signalling cable for connecting IPS to status monitoring panel will be supplied by the railway free of cost. Note: The firm shall supply one additional SMR of rating 110V, 20A in addition to 6 SMR that they will supply as per drawing of IPS in this purchase. (Material inspected by RDSO) | Numbers | 2.00   | 1639855.44   | 3279710.88        |

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|   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |      |              |                   |
|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------|-------------------|
| 7 | 07 | Supply of Electric Point Machine [Rotary locking Type] 110 V DC operations, [AC Immunity 160V] NONTRAILABLE, complete with Lock Detector, cable termination box and slides for lock and detector for thick web switches as per RDSO specification No. IRS: S-24/2002 with amendment -1 including ground connection as per RDSO specification. Requirement of point machine is 220 mm throw only as per RDSO Drg. No. RDSO/S-11000. (Material inspected by RDSO) | Numbers | 8.00 | 151710.72    | 1213685.76        |
|   |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |      | <b>Total</b> | <b>7700954.79</b> |

**4. ELIGIBILITY CONDITIONS**

**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

**Standard Financial Criteria**

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|---------------------|
| 1     | The tenderer must have minimum average annual contractual turnover of (V/N) or (V) whichever is less ; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Note: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India. Tenderer should submit documentary proof in regard to fulfilling these eligibility criteria along with their offers. The offers of tenderers who either fail to submit the documentary proof or do not meet the eligibility criteria as mentioned above shall not be considered. | No                    | No              | Allowed (Mandatory) |

**Standard Technical Criteria**

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|---------------------|
| 1     | The tenderer must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar work each costing not less than the amount equal to 60% of advertised value of the tender. Documentary evidence including the letter of intent, completion certificates shall be submitted. This shall be on bidder's name. Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience Certificate . | No                    | No              | Allowed (Mandatory) |
| 1.1   | Similar nature of work in this tender will be "Any work of EI / PI / RRI / ABS/ IBH/ LC Gate interlocking work which include indoor and outdoor signalling work."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No                    | No              | Not Allowed         |

**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

| S.No. | Description                                                                              |
|-------|------------------------------------------------------------------------------------------|
| 1     | I/we the tenderer (s) am/are signing this document after carefully reading the contents. |

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2  | I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3  | I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us. |
| 4  | I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.                                                                                                                                                                                                                                                                                                                                                                           |
| 5  | I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.                                                                                                                                                                                                                                                                                                                                                                                       |
| 6  | I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.                                                                                                                                                                                                                                                                                                                                             |
| 7  | I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.                                                                                                                                                                                                                                             |
| 8  | I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.                                                                                                             |
| 9  | I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.                                                                                                                                       |
| 10 | I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)                                                                                              |

**Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.**

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | <b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer.<br>( <a href="#">Click here</a> to download the Format of Self Certification) |

**5. COMPLIANCE**

**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

**Commercial-Compliance**

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------|-----------------------|-----------------|---------------------|
|-------|-------------|-----------------------|-----------------|---------------------|

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |     |                     |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|---------------------|
| 1 | In case of sole proprietorship Concern: Affidavit certifying the sole proprietorship of the firm, This affidavit shall be notarized. (Annexure IV, V) OR [for partnership Firms: (i) Copy of Partnership deed, (ii) Copy of Power of Attorney (duly registered) in Favour of an individual to sign the tender documents and create liability against the Firm. Alternatively, Authorization given in Partnership Deed or Notarized Power of Attorney shall also be accepted. ] OR For Company, registered under the Company's Act:- (i) Copy of Certificate of Registration of Company under the Company's Act, (ii) Copy of MOA (Memorandum of Association)/AOA (Article of Association) of the Company. (iii) Copy of Authorization/Power of attorney Notarized/Registered issued by the Company. (Backed by the Resolution off Board of Directors) in favour of the individual to sign the tender on be half of the Company and create liability against the Company. Alternatively authorization given in MOA/AOA shall also be accepted. OR For Registered Society and Registered Trust:- (i) Copy of the certificate of registration, (ii)Deed of formation, (iii) Copy of Power of Attorney (Notarized/Registered)in favor of individual to sign the tender document and create liability against Society/Trust. OR For Limited Liability Partnership (LLP) Firms: (i) Copy of LLP Agreement, (ii) Copy of certificate of incorporation, (i) Copy of Power of Attorney (Notarized/registered) or Authorization issued by LLP Firm in favor of individual to sign the tender on behalf of LLP firm and create liability against firm, Alternatively, Authorization given in LLP Agreement shall also be accepted. In Absence of these documents, offer of the firm will be summarily rejected. For more clarification regarding this, pls refer GCC April 2022 available on railway official website. | No | No  | Allowed (Mandatory) |
| 2 | Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No | Yes | Allowed (Optional)  |
| 3 | "The said suppliers of goods and/or services would be subject to GST Act and Rules as applicable from time to time. Tenderers are requested to submit their offers as per GST Tax regime. All the bidders/tenderers should ensure that they are GST compliant and their quoted tax structure/rates are as per GST Law"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No | No  | Not Allowed         |

**General Instructions**

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|---------------------|
| 1     | Successful tenderers are required to submit the number of labour to be employed for this particular work. Also the list showing names of male and female employed in this work, at the time of submitting performance guarantee and before executing contract agreement. They should also ensure that 1) The payment to the contract labour should be made through bank/cheque. 2) Identity Cards should be issued to all contract workers. 3) Necessary steps should be taken to deduct provident fund from the payment made to contract labour and ensure that the same is credited to their Provident Fund account. 4)Medical facilities from ESI should be ensured, if applicable. | No                    | No              | Not Allowed         |
| 2     | I/We agree to carry out all works with use of modern equipments of required capacity for the work without extra payment. The decision of railway engineer shall be final and binding in this regard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                    | No              | Not Allowed         |
| 3     | It is the responsibility of contractor to arrange the payment of the labour employed for the work through bank and to deduct PF as per the provisions of Minimum Wages Act.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No                    | No              | Not Allowed         |
| 4     | The quantities shown above are approximate and to give a general guideline. Railway reserves a right to increase, decrease or to delete any of the items mentioned in schedule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No                    | No              | Not Allowed         |

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |             |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-------------|
| 5 | Special Conditions of Contract for Mandatory Updating of Labor Data or Railway's Shramikkalyan Portal by Contractor as per Railway Board's letter No2018/CE-I /CT/4 dated 17.10.2018: In order to increase in payment of contract labour wages and other payments aweb-based e- application has been developed and hosted on website www.shramikkalyan.indianrailways.gov.in All contractors are required to upload details of their LOAs, engaged workmen, wage payment details, PF/ESI details, bonus details etc., on monthly basis. The details so uploaded shall be available in public domain.. In order to ensure the compliance and fulfillment of these instructions, following action is required to be completed by contractors: A) Contractor is to abide by the provisions of Payment of Wages Act and Minimum wages Act in terms of Clause 54 and 55 or Indian Railways General Conditions of Contract. In order to ensure the same, an application has been developed and hosted on website www.shramikkalyan.indianrailways.gov.in . Contractor shall register his firm/company etc. and upload requisite details of labor and their payment in this portal. These details shall be available in public domain. The Registration/updating of Portal shall be done as under:-a )contractor shall apply for one time registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request. b)Contractor once approved by any Engineer, can create password with login 1D (PAN No.) for subsequent use of portal for all LoAs issued in his favor. c)The contractor once registered on the portal, shall provide details of his letter of Acceptance (LOA)/Contract Agreements on Shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such requested) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on Shramikkalyan portal on monthly basis. e)It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour and payments made thereof after each wage period. B)While processing payment of any On Account bill or Final bill or release of Advances or Performance Guarantee/Security Deposit, Contractor shall submit a certificate to the Engineer or Engineer's representatives that I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal atwww.shramikkalyan.indianrailways.gov.in till..Month... Year..... | No | No | Not Allowed |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-------------|

**Undertakings**

| S.No. | Description                                                                                                                                                                                | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|---------------------|
| 1     | I/we have carefully gone through the tender documents, specifications, special conditions etc. attached with the tender documents.                                                         | No                    | No              | Not Allowed         |
| 2     | I/We undertake to keep this offer valid for a period indicated in tender documents from the date of opening of tender and further not to revoke the same before the expiry of such period. | No                    | No              | Not Allowed         |
| 3     | I/We have Visited the works site and I We am/ are aware of the site Conditions.                                                                                                            | No                    | No              | Not Allowed         |

**Custom**

| S.No. | Description                                                                                                                                                                                                                                                                                                                                                                                                  | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|---------------------|
| 1     | GCC April 2022 with latest ACS has been introduced and published/available on railways website. The provisions of GCC 2022 or latest amendments released till the time of date of publishing of tender will be applicable on this tender. Tenderers are requested to download the same from the railways website and ensure the implementation of the latest provisions made in GCC while execution of work. | No                    | No              | Not Allowed         |
| 2     | Maintenance period for this work will be 36 months from the date of successful completion of work.                                                                                                                                                                                                                                                                                                           | No                    | No              | Not Allowed         |

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**6. Documents attached with tender**

| S.No. | Document Name                                 | Document Description               |
|-------|-----------------------------------------------|------------------------------------|
| 1     | TentativeMiniPlanofBhopalStationforElwork.pdf | Bhopal station Tentative Mini plan |
| 2     | TBforBPLElwork_2.pdf                          | Special condition of contract      |
| 3     | Annexure-IforEl_2.pdf                         | AnnexureI                          |
| 4     | GCCApril2022.pdf                              | GCC Apr 2022                       |
| 5     | GCCApril2022ACS1.pdf                          | GCC ACS 1                          |
| 6     | GCCApril2022ACS2.pdf                          | GCC ACS 2                          |
| 7     | GCCApril2022ACS3.pdf                          | GCC ACS 3                          |
| 8     | GCCApril2022ACS4.pdf                          | GCC ACS 4                          |
| 9     | GCCApril2022ACS5.pdf                          | GCC ACS 5                          |
| 10    | Annexure-IIforWorkstation_1.pdf               | AnnexureII                         |
| 11    | Annexure-IIIforCTR_1.pdf                      | AnnexureIII                        |
| 12    | Annexure-IVforFaultDiagnosis_1.pdf            | AnnexureIV                         |
| 13    | Annexure-VforDatalogger_1.pdf                 | AnnexureV                          |
| 14    | AnnexureVI-B.pdf                              | AnnexureVIB                        |

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

**Signed By:** DINESH KUMAR KALAME

**Designation :** Sr.DSTECO