

**SWR-CONST-HQ-S AND T/SOUTH WESTERN RLY
TENDER DOCUMENT**

Tender No: KORA_MLP_RMGR

Closing Date/Time: 26/10/2023 15:00

Dy.CSTE/CN/BNC acting for and on behalf of The President of India invites E-Tenders against Tender No **KORA_MLP_RMGR** Closing Date/Time 26/10/2023 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

| | | | |
|------------------------------------|---|--|-------------------|
| Name of Work | Name of the Work: "Provision of Electronic Interlocking System with outdoor Signalling arrangements at KORALAHATTI, MALLAPUR, RAMANAGAR & SHIKARIPURA stations between SMET-Shikaripura section and at ANAGODU, HEBBALU & CHITRADURGA stations between TK-DVG section of Mysore division, with Absolute Block working system for new BG line along with Telecommunication arrangement at chitradurga station and IP-MPLS arrangement at Urekere station." | | |
| Bidding type | Normal Tender | | |
| Tender Type | Open | Bidding System | Two Packet System |
| Tender Closing Date Time | 26/10/2023 15:00 | Date Time Of Uploading Tender | 04/10/2023 19:53 |
| Pre-Bid Conference Required | No | Pre-Bid Conference Date Time | Not Applicable |
| Advertised Value | 473920949.42 | Tendering Section | TENDER |
| Bidding Style | [Decision at Schedule level] | Bidding Unit | |
| Earnest Money (Rs.) | 2519600.00 | Validity of Offer (Days) | 90 |
| Tender Doc. Cost (Rs.) | 0.00 | Period of Completion | 18 Months |
| Contract Type | Works | Contract Category | Expenditure |
| Bidding Start Date | 12/10/2023 | Are Joint Venture (JV) firms allowed to bid | Yes |
| Ranking Order For Bids | Lowest to Highest | Expenditure Type | Capital (Works) |

2. SCHEDULE

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|-----------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule A-SOR | | | | | | | 57867329.92 | Above/ Below/Par |
| 1 | Please see Item Breakup for details. | | | | 35501429.40 | 63.00 | 57867329.92 | |
| | Description:- SOR | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule B-SUPPLY | | | | | | | 25457133.12 | Above/ Below/Par |
| 4 | Please see Item Breakup for details. | | | | 23355168.00 | 9.00 | 25457133.12 | |
| | Description:- SUPPLY | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|-----------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule C-EXECUTION | | | | | | | 22743682.76 | Above/ Below/Par |
| 5 | Please see Item Breakup for details. | | | | 20865764.00 | 9.00 | 22743682.76 | |
| | Description:- EXECUTION | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|--|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule D-SUPPLY & INSTALLATION | | | | | | | 47980542.14 | Above/ Below/Par |
| 6 | Please see Item Breakup for details. | | | | 44018846.00 | 9.00 | 47980542.14 | |
| | Description:- SUPPLY & INSTALLATION | | | | | | | |

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| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|--|----------|----------|------------|-------------|----------|--------------|--------------|
| Schedule E-ELECTRONIC INTERLOCKING | | | | | | | 119545469.20 | |
| 1 | E | 7.00 | Set | 7832317.00 | 54826219.00 | AT Par | 54826219.00 | Rs. |
| | Description:- Supply of Electronic Interlocking system excluding Panel Processor (Hot Standby) for 7 stations stations with Signaling functions up to 125 units as per Function table enclosed along with 15% spares, tools, manuals and Instruments. EI to be provided as per RDSO Spec No.RDSO/SPN/192/2005 or latest. This includes supply of 55" Maintenance VDU and Maintenance PC(embedded PC) and all types of indoor relays along with point contactor relays(QBCA1) required for points/other indoor purposes.(ref Technical specifications/explanatory note in the tender document) | | | | | | | |
| 2 | E | 442.00 | Per Unit | 71250.00 | 31492500.00 | AT Par | 31492500.00 | Rs. |
| | Description:- Incremental rate for signaling functions in EI SYSTEM over and above 125 functions under item 36001 above.(per unit = per function) | | | | | | | |
| 3 | E | 2.00 | Set | 674202.00 | 1348404.00 | AT Par | 1348404.00 | Rs. |
| | Description:- Supply of Electronic Interlocking Items for end location (Goomty) for station/IBH/Auto Hut for distributed Architecture in connection with item No. 36001 (a) as per Function table enclosed alongwith 5% Spares, tools, manuals & instruments. | | | | | | | |
| 4 | E | 7.00 | Lumpsum | 556800.00 | 3897600.00 | AT Par | 3897600.00 | Rs. |
| | Description:- Designing of EI application logic and interface circuit as per the SIP & Table of Control supplied by railway for the above mentioned stations.This includes internal FAT testing prior to submission for approval of circuits. | | | | | | | |
| 5 | E | 3.00 | Per Unit | 550000.00 | 1650000.00 | AT Par | 1650000.00 | Rs. |
| | Description:- Redesign charges for alteration to EI and Datalogger systems during phase work (UNIT: 1 Per Phase). | | | | | | | |
| 6 | E | 3.00 | Per Unit | 290000.00 | 870000.00 | AT Par | 870000.00 | Rs. |
| | Description:- Installation,testing and commissioning support for ei and Datalogger during alteration including FAT and SAT (UNIT: 1 Per Phase). | | | | | | | |
| 7 | E | 7.00 | Numbers | 510400.00 | 3572800.00 | AT Par | 3572800.00 | Rs. |
| | Description:- Installation, wiring, testing and commissioning of EI equipments supplied for the stations mentioned above, duly carrying out the required FAT & SAT, including transportation from consignee depot to site at station listed above. This also includes trenching, laying & splicing of 24C OFC cable supplied by railways for communication equipments of EI. | | | | | | | |
| 8 | E | 7.00 | Set | 907584.00 | 6353088.00 | AT Par | 6353088.00 | Rs. |
| | Description:- Supply and Installation of Operator VDU. The operator VDU consists of industrial grade embedded fanless PC with 55 inch monitor (2 No.s) . The monitor should be capable of working on 110 V AC. The embedded PCs for Operator VDU should be as per RDSO TAN No. STS/E/TAN/3007 Version 1.0 or latest with adequate storage memory to work in hot-standby mode. The VDUs should be provided with all necessary software to work along with EI equipment. Necessary mounting arrangements also should be provided for operator VDU. | | | | | | | |
| 9 | E | 9.00 | Numbers | 607840.00 | 5470560.00 | AT Par | 5470560.00 | Rs. |
| | Description:- Supply, Installation, wiring, testing and commissioning of Datalogger as per RDSO IRS/99/2006 or latest with EI interface card (Digital interface cards), for 512 digital inputs and 32 analog inputs. This includes supply of all miscellaneous items and software for commissioning of datalogger with networking.(including printer, mounting table and revolving chair of reputed firm make as per details in Technical specification). | | | | | | | |
| 10 | E | 9.00 | Numbers | 28313.00 | 254817.00 | AT Par | 254817.00 | Rs. |
| | Description:- Supply of Online UPS of 1 KVA capacity input voltage 160V AC - 280 V AC, output voltage 230V AC, Operating Freq 47-63 Hz with back up time 30 min (APC or Emerson) | | | | | | | |
| 11 | E | 420.00 | Metre | 500.00 | 210000.00 | AT Par | 210000.00 | Rs. |
| | Description:- Supply of 25x3 mm Cu tape for BRC (Bonding ring Conductor). | | | | | | | |
| 12 | E | 62.00 | Numbers | 494.00 | 30628.00 | AT Par | 30628.00 | Rs. |
| | Description:- Supply of 25x6x225 mm Cu bus bar | | | | | | | |
| 13 | E | 25.00 | Numbers | 1932.00 | 48300.00 | AT Par | 48300.00 | Rs. |
| | Description:- Supply of 50x6x450mm Cu tape equipotential bus bars. | | | | | | | |
| 14 | E | 230.00 | Numbers | 1350.00 | 310500.00 | AT Par | 310500.00 | Rs. |
| | Description:- Exothermic welding materials (Cad weld or similar). | | | | | | | |
| 15 | E | 216.00 | Metre | 150.00 | 32400.00 | AT Par | 32400.00 | Rs. |

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| | | Description:- Laying of 50x6 mm GI tape for interconnection of earth electrodes. (This includes excavating of trench to a suitable depth as per site requirement and refilling of same after laying the GI tape as per site requirement). | | | | | | |
| 16 | E | 1500.00 | Metre | 150.00 | 225000.00 | AT Par | 225000.00 | Rs. |
| | | Description:- Provision 35 sq mm single core CU cable for connecting main earth electrode to equipment room (routing through the GI Pipe/DWC/HDPE/PVC Conduit pipe of suitable size as per site requirement). | | | | | | |
| 17 | E | 420.00 | Metre | 200.00 | 84000.00 | AT Par | 84000.00 | Rs. |
| | | Description:- Provision of 25x3sq mm Cu tape for BRC on walls with suitable insulated stand-off in side Relay Room/Equipment room as per site requirement. | | | | | | |
| 18 | E | 230.00 | Per Unit | 300.00 | 69000.00 | AT Par | 69000.00 | Rs. |
| | | Description:- Provision of 16 sq mm Cu cable/10 sq mm Cu cable between BRC and racks The work includes mechanical connection by providing two Cu lugs and two steel screws, drilling to two holes and removal of powder coating on rack body, thimbles ties etc. and routing the same as per site requirement. (UNIT: Per Bond). | | | | | | |
| 19 | E | 25.00 | Numbers | 400.00 | 10000.00 | AT Par | 10000.00 | Above/ Below/Par |
| | | Description:- Installation of 50x6x450 mm Cu for equipotential bus bars. | | | | | | |
| 20 | E | 62.00 | Numbers | 250.00 | 15500.00 | AT Par | 15500.00 | Rs. |
| | | Description:- Installation of 25x6x225 mm Cu for equipotential bus bars. | | | | | | |
| 21 | E | 230.00 | Numbers | 350.00 | 80500.00 | AT Par | 80500.00 | Rs. |
| | | Description:- Carrying out exothermic welding for various conductors as per requirement. | | | | | | |
| 22 | E | 9.00 | Numbers | 400000.00 | 3600000.00 | AT Par | 3600000.00 | Rs. |
| | | Description:- Supply, Installation and commissioning of Class 'A' protection with Lightening Event Counter as per the details given in Technical specification, with three years warranty. | | | | | | |
| 23 | E | 7.00 | Set | 139200.00 | 974400.00 | AT Par | 974400.00 | Rs. |
| | | Description:- Supply of Final AS MADE documents for the listed stations. | | | | | | |
| 24 | E | 70.00 | Man-Days | 2784.00 | 194880.00 | AT Par | 194880.00 | Rs. |
| | | Description:- Training of Railway Personnel for installation, commissioning, testing, trouble shooting, repairs etc. Required hard copies of course modules also to be supplied. | | | | | | |
| 25 | E | 7.00 | Per Unit | 162250.00 | 1135750.00 | AT Par | 1135750.00 | Rs. |
| | | Description:- Independent checking, verification & approval of Logic Circuits of stations of up-to 20 routes by IRSE / IRSTELO License holders. (UNIT: Per Station). | | | | | | |
| 26 | E | 328.00 | Per Unit | 8501.90 | 2788623.20 | AT Par | 2788623.20 | Rs. |
| | | Description:- Additional payment for checking, verifying and approval of Logic circuits having more than 20 routes. Note: In case of alteration in approved SIP or TOC, payment shall be applicable per route basis as per Item No.2 of terms & Conditions of contract. Preparation of SIP (UNIT: Per Route Per Station). | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|-------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule F-UFSBI | | | | | | | 3782664.06 | Above/ Below/Par |
| 1 | Please see Item Breakup for details. | | | | 3470334.00 | 9.00 | 3782664.06 | |
| | Description:- UFSBI | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|-----------|--|----------|-----------|-------------|----------|------------|--------------|
| Schedule G-FIRE DETECTION AND ALARM SYSTEM | | | | | | | 6878902.00 | |
| 1 | G | 114.00 | Numbers | 6600.00 | 752400.00 | AT Par | 752400.00 | Rs. |
| | | Description:- Supply, Installation, testing and commissioning of Heat and smoke multi sensor as per RDSO/SPN/217/2018 ver-2 or latest along with its base, backbox and all accessories in compliance with IS:2175 and IS:11360 standards and Underwriters Laboratory (UL) listed. | | | | | | |
| 2 | G | 36.00 | Numbers | 6100.00 | 219600.00 | AT Par | 219600.00 | Rs. |
| | | Description:- Supply, Installation, testing and commissioning of Fault isolator as per RDSO/SPN/217/2018 ver-2 or latest with backbox and all other accessories. | | | | | | |
| 3 | G | 1600.00 | Metre | 1300.00 | 2080000.00 | AT Par | 2080000.00 | Rs. |
| | | Description:- Supply of Didital Liners Heat sensing cable 70 degree celsius made with tinned copper coated steel conductor, thermoplastic insulation, Nylon outer sheath confirming to UL standards. | | | | | | |
| | G | 9.00 | Numbers | 91000.00 | 819000.00 | AT Par | 819000.00 | Rs. |

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| 4 | Description:- Supply, Installation, testing and commissioning of linear heat sensing interface module, (Monitor module) for LHS cable with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest in compliance with IS standards and Underwriters Laboratory (UL) listed. | | | | | | | |
| 5 | G | 1300.00 | Metre | 81.42 | 105846.00 | AT Par | 105846.00 | Rs. |
| | Description:- Supply of Fire survival cable 2x 1.5 sq .mm armoured as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 6 | G | 1300.00 | Metre | 99.12 | 128856.00 | AT Par | 128856.00 | Rs. |
| | Description:- Supply of Fire survival cable 2x 1.5 sq .mm unarmoured as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 7 | G | 9.00 | Numbers | 205000.00 | 1845000.00 | AT Par | 1845000.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Networkable single loop addressable Fire alarm Control panel expandable upto 4 loops with GSM interface(without GSM module) as per RDSO/SPN/217/2018 ver-2 or latest. This work involves supply ,fixing, installation and testing of control panel. The control panel shall be networkable to Zonal /Divisional headquarters preferably over TCP/IP and shall have clock synchronization facility. This includes Networking module (TCP/IP) for control panel along with power supply unit and battery set of required capacity for 24 hours backup as per RDSO specification.. The panel should support degrade mode operation in compliance with IS: 2189 , EN 54 standards and Underwriters Laboratory (UL) listed . | | | | | | | |
| 8 | G | 7.00 | Numbers | 34000.00 | 238000.00 | AT Par | 238000.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of GSM module for Control panel with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest. with auto dialer function to SMS during failure or fire situation. | | | | | | | |
| 9 | G | 24.00 | Numbers | 7500.00 | 180000.00 | AT Par | 180000.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Manual call point (resettable) with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 10 | G | 7.00 | Numbers | 4100.00 | 28700.00 | AT Par | 28700.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Relay module with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 11 | G | 18.00 | Numbers | 15000.00 | 270000.00 | AT Par | 270000.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Hooter and Visual strobe alarm units with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest along with its power supply unit. | | | | | | | |
| 12 | G | 18.00 | Numbers | 6300.00 | 113400.00 | AT Par | 113400.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Control module with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 13 | G | 7.00 | Numbers | 3500.00 | 24500.00 | AT Par | 24500.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of EOL as per RDSO/SPN/217/2018 ver-2 or latest as directed by the site Engineers. | | | | | | | |
| 14 | G | 7.00 | Numbers | 3200.00 | 22400.00 | AT Par | 22400.00 | Rs. |
| | Description:- Supply, Installation, testing and commissioning of Monitor module for 3rd party with backbox and all other accessories as per RDSO/SPN/217/2018 ver-2 or latest. | | | | | | | |
| 15 | G | 1200.00 | Metre | 36.00 | 43200.00 | AT Par | 43200.00 | Rs. |
| | Description:- Supply and fixing of PVC pipe of 25 mm size of IS standards on wall/floor etc All necessary items like screws/nails required to be supplied by contractor. | | | | | | | |
| 16 | G | 1600.00 | Metre | 5.00 | 8000.00 | AT Par | 8000.00 | Rs. |
| | Description:- Laying / drawing of various type of cables on PVC pipe / capping casing, or cable trays, ladder, shelter etc as instructed by Railway engineer at site. (Indoor cables to be drawn through pipe, outddor cables if required to be clamped on wall/Floor etc) | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|----------------------------------|--|----------|----------|-----------|-------------|----------|--------------|--------------|
| Schedule H-NON SOR SIGNAL | | | | | | | 144923306.66 | |
| 1 | H | 1500.00 | Metre | 97.00 | 145500.00 | AT Par | 145500.00 | Rs. |
| | Description:- Excavation of cable trench in hard rocky areas/hard soil including clearing of roots of trees, rocks, bushes etc. to a depth of 0.6 Mtrs and to a width of 0.5 Mtrs and Refilling of cable trench 0.6 m depth by 0.5m width throughout, with earth after laying of cables, and consolidating the trench by ramming and leveling. Laying of cables is not included in this schedule. | | | | | | | |
| | H | 155.00 | Set | 5552.64 | 860659.20 | AT Par | 860659.20 | Rs. |

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|----|--|---------|----------|-----------|------------|--------|------------|-----|
| 2 | Description:- Fencing for location box duly providing foundation (a pit of size 400mm x 400mm x 400mm is to be dig and cement concrete foundation in the pit in the ratio 1:3:6 to be casted) and fixing the frames/doors and E-type lock to the fencing with supplied material. The rail post/angular is to be erected up right in the foundation. All materials are to be arranged and used by the contractor (Rail post / angular / frames /Fencing/ E type locks will be supplied by railway). Cutting of rail post / angular / fencing to the required length, transportation to the site is to be done by the contractor. (UNIT: Set 4 Nos.). | | | | | | | |
| 3 | H | 3.00 | Numbers | 87320.00 | 261960.00 | AT Par | 261960.00 | Rs. |
| | Description:- Supply of Multi Lamp Numeric Route Indicator (White LED Double Digit), which works on 110V AC, for 1 to 19 Routes with Right and Left Arms and Complete Housing for use with LED ECR. | | | | | | | |
| 4 | H | 2.00 | Numbers | 350000.00 | 700000.00 | AT Par | 700000.00 | Rs. |
| | Description:- Supply of RFID Marker locator with minimum 2000 marker records,built in GPS module with minimum 1.5M depth range and LCD display panel. Stanlay or Similar as directed by the site engineer. | | | | | | | |
| 5 | H | 14.00 | Numbers | 5004.00 | 70056.00 | AT Par | 70056.00 | Rs. |
| | Description:- Fixing of KLCR on suitable fixtures at station/apparatus case, provision of economiser push switch with locking facility, wiring with wire PVC 16/0.2mm copper. (Supply of KLR and crank handles is not covered in this schedule). [wire PVC 16/0.2mm copper,wire wound resistance,bolts and nuts, paints, push switches, padlocks and other miscellaneous materials required for this work shall be supplied by the contractor]. | | | | | | | |
| 6 | H | 70.00 | RMT | 4420.00 | 309400.00 | AT Par | 309400.00 | Rs. |
| | Description:- Supply and provision of MS Cable Tray of thickness 1.6 mm, including top cover for closing, with all required miscellenous materials for installation. Installation to be carried out as per the instructions of site engineer. MS Cable Tray including Cover should be powder coated with Siemens Grey Color. -MS Cable Tray - 400 * 300 | | | | | | | |
| 7 | H | 70.00 | RMT | 3678.00 | 257460.00 | AT Par | 257460.00 | Rs. |
| | Description:- Supply and provision of MS Cable Tray of thickness 1.6 mm, including top cover for closing, with all required miscellenous materials for installation. Installation to be carried out as per the instructions of site engineer. MS Cable Tray including Cover should be powder coated with Siemens Grey Color. -MS Cable Tray - 400 * 150 | | | | | | | |
| 8 | H | 102.00 | RMT | 2806.00 | 286212.00 | AT Par | 286212.00 | Rs. |
| | Description:- Supply and provision of MS Cable Tray of thickness 1.6 mm, including top cover for closing, with all required miscellenous materials for installation. Installation to be carried out as per the instructions of site engineer. MS Cable Tray including Cover should be powder coated with Siemens Grey Color. -MS Cable Tray - 250 * 100 | | | | | | | |
| 9 | H | 54.00 | RMT | 1997.00 | 107838.00 | AT Par | 107838.00 | Rs. |
| | Description:- Supply and provision of MS Cable Tray of thickness 1.6 mm, including top cover for closing, with all required miscellenous materials for installation. Installation to be carried out as per the instructions of site engineer. MS Cable Tray including Cover should be powder coated with Siemens Grey Color. -MS Cable Tray - 100 * 100 | | | | | | | |
| 10 | H | 2.40 | Per Unit | 64900.00 | 155760.00 | AT Par | 155760.00 | Rs. |
| | Description:- Supply of L- angles 75 *10mm as per required lengths for various boards like Goods warning/calling on/Axle counter etc. (UNIT: Per Ton). | | | | | | | |
| 11 | H | 33.00 | Per Unit | 42600.00 | 1405800.00 | AT Par | 1405800.00 | Rs. |
| | Description:- Supply and provision of PVC warning tape colour orange, width of 250mm(10") by printing with black letters (Indian Railway Signal/ Telecom/ OFC Cable on both sides of the tape. (UNIT: Per Km). | | | | | | | |
| 12 | H | 3000.00 | Metre | 14.00 | 42000.00 | AT Par | 42000.00 | Rs. |
| | Description:- Releasing/shifting of existing/already laid signalling/telecom cables to facilitate engineering construction works. | | | | | | | |
| 13 | H | 300.00 | RMT | 131.00 | 39300.00 | AT Par | 39300.00 | Rs. |
| | Description:- Excavation of cross trench to a depth of 1M or as per site requirement, for identifying the existing cable path without damaging the working cables. | | | | | | | |
| 14 | H | 9.00 | Numbers | 17500.00 | 157500.00 | AT Par | 157500.00 | Rs. |
| | Description:- Supply of Office table of Godrej T9 or reputed firm for keeping circuits/carrying office work. | | | | | | | |
| 15 | H | 9.00 | Numbers | 10760.00 | 96840.00 | AT Par | 96840.00 | Rs. |
| | Description:- Supply of Office table of Godrej T8 or reputed firm for keeping circuits/carrying office work. | | | | | | | |
| 16 | H | 9.00 | Numbers | 10888.00 | 97992.00 | AT Par | 97992.00 | Rs. |
| | Description:- Supply of Office/executive/computer support Revolving Chairs (Bravo high back and Cushioned) of Godrej or reputed firm for seating arrangement.Godrej Interio Fabric Bravo High Back Chair, Size: 38-43 H X 30 W X 30 D | | | | | | | |
| 17 | H | 34.00 | Numbers | 4000.00 | 136000.00 | AT Par | 136000.00 | Rs. |
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| | | | Description:- Supply of Office/visitor/study/executive/computer support Chairs (Cushioned) of Godrej or reputed firm for seating arrangement. | | | | | |
| 18 | H | 7.00 | Numbers | 290457.00 | 2033199.00 | AT Par | 2033199.00 | Rs. |
| | | | Description:- Supply, fabrication, installation and fixing of panel operator console in SM room to accommodate 2 VDU s, SM key box , counter box, BPAC reset -4 No.s etc. The basic frame structure of the console to be made of Teak wood and water proof plywood sheet of 19mm thickness of reputed make to be used for fabrication of table duly consisting of required partitions /compartments for accomodating associated required equipments/terminals. Interior and exterior to be covered using lamination sheet of reputed make and approved colours and drawing as per the instruction of site engineer. All the materials required for the fabrication and fixing of console to be supplied by contractor including lead, lift and manpower as per the instruction of site engineer. This item also includes supply of godrej C13 or better make /model computer table (1No.) for installation of maintenance VDU and godrej office executive chair or better make (2No.) | | | | | |
| 19 | H | 86.00 | Per Point Machine | 22469.37 | 1932365.82 | AT Par | 1932365.82 | Rs. |
| | | | Description:- Installation, termination, wiring, testing and commissioning of point machine (220mm stroke) including supply of wire, GI bend pipe, insulation sets etc. | | | | | |
| 20 | H | 600.00 | Numbers | 2688.00 | 1612800.00 | AT Par | 1612800.00 | Rs. |
| | | | Description:- Supply and installation of RFID Electronic marker for S&T underground cables with programmable memory for saving the user specific data inside the RFID Electronic marker locator during locating (Disk type marker to keep detection circuit always horizontal for better detection) which can be burried up to a depth of 5ft. Stanlay or Similar as directed by the site engineer. | | | | | |
| 21 | H | 60.00 | Numbers | 11801.18 | 708070.80 | AT Par | 708070.80 | Rs. |
| | | | Description:- Supply of Key Lock Relay (KLCR) working on 24V DC ACI Type TMA with different ward combination IRS-S-46, IRS-S@45"44@ IRS-S23 with contact configuration 4F-4B (TMA 1144/116 IM-OLD) Accepted Make- INTEGRA or similar. (Two extra ward plates for point machines to be supplied with each relay). Ward combinations shall be decided by the Railway Engineer at site. | | | | | |
| 22 | H | 7.00 | Set | 30000.00 | 210000.00 | AT Par | 210000.00 | Rs. |
| | | | Description:- Tool kit for ESM as recommended in CSTE technical instructions and as per technical specn. | | | | | |
| 23 | H | 66.00 | Numbers | 500.00 | 33000.00 | AT Par | 33000.00 | Rs. |
| | | | Description:- Navtal locks godrej make 75mm with 2 keys | | | | | |
| 24 | H | 1600.00 | RMT | 157.75 | 252400.00 | AT Par | 252400.00 | Rs. |
| | | | Description:- Digging of cable trench to a depth of not less than 30cm in rocky terrain, concreting the trench with 150mm x 150mm thick concrete in the ratio 1:2:4 and after proper curing, back filling with excavated soil. | | | | | |
| 25 | H | 9.00 | Numbers | 69750.00 | 627750.00 | AT Par | 627750.00 | Rs. |
| | | | Description:- Supply and installation of online grounding resistance monitoring system with remote control and monitoring unit along with split core structure,non contact measurement real in time testing ,resistance range 0.01ohm 100ohm | | | | | |
| 26 | H | 9.00 | Numbers | 874654.72 | 7871892.48 | AT Par | 7871892.48 | Rs. |
| | | | Description:- Supply and ainstallation of ductable AC in relay room(1 set=2 nos of AC) with all accessories as per detail specification attached with the tender | | | | | |
| 27 | H | 80.00 | Numbers | 3622.60 | 289808.00 | AT Par | 289808.00 | Rs. |
| | | | Description:- Relay Non-AC Immune, Plug-in-type, Style QN1 DC Neutral Line relay, 24V 8F/8B contacts front and back contacts (Metal to Carbon) complete with plug board, retaining clips & connectors, conforming to BRS : 930 (NonACI) IRS : S : 23-88 AMD-1 & IRS : S : 34-68 AMD-6 (as applicable). The interlocking code for this unit shall be ABCDF with ATC clips. | | | | | |
| 28 | H | 585.00 | Numbers | 3776.00 | 2208960.00 | AT Par | 2208960.00 | Rs. |
| | | | Description:- Relay AC Immune, Plug-in-type QNA1 DC Neutral Line, 24V 8F/8B contacts front and back contacts (Metal to Carbon), complete with plug board, retaining clip and connectors, conforming to BRS : 931A, IRS: S@58<44@ S:34 & IRS: S:23 (as applicable). The interlocking code for this unit shall be ABDGH. | | | | | |
| 29 | H | 456.00 | Per Route | 1310.00 | 597360.00 | AT Par | 597360.00 | Rs. |
| | | | Description:- Preparation of Table Of Control for Chikkamagalur, Hadihalli, Urukere and Thimmrajanahalli stations in connection with provision of ABS for new line between TK-DVG section. This includes, Designing of Table of Control (TOC) based on Tentative Signalling Plans in AutoCad 2000 or latest in A3 size. Initially contractor shall submit 2 set of documents complete for draft approval of Railways. One set will be returned either duly approved for making a fair copy or for resubmission for approval after incorporating the changes as required by railways. After carrying out necessary changes, One set of Tracing film to be submitted for approval. After approval, Autocad soft copy shall be submitted in USB Pen Drive and Two sets of final Approved Drawings blue prints in properly bound booklets. Note: TOC to be designed and submitted with priliminary check and certification done by IRSE or IRSTE (Licence Holder). | | | | | |
| | H | 228.00 | Per Unit | 363490.00 | 82875720.00 | AT Par | 82875720.00 | Rs. |

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|----|---|--------|---------|------------|------------|--------|------------|-----|
| 30 | Description:- "Multi section Digital Axle Counter (MSDAC) supply, design, installation, testing and commissioning of multi section digital axle counter (MSDAC) complete system as per RDSO Specification No.RDSO/SPN/176/2013 version 3 with Latest amendments STR No SIQ 0001 Ver 2.0 Unified PL No 56040246 or latest. Inspection:RDSO. It shall contain DPs at per detail mentioned in attached specification. Suitable for commissioning of yard replacement as per SIP .Tenderer shall design the scheme for provision of required number of evaluators, trackside junction boxes,detection points and track clearance relays etc to be submitted along with the offer. MSDAC should have facility to reset track sections. system shall be with cooperative type design and the total cost break up shall be given.Design of axle counter circuit indoor installation testing and commissioning of multi section digital axle counter (per unit), supply of essential 10% spares covering all types of cards, wheel sensors for MSDAC detailed cost and quantity wise break up of all spares should be given. (per set) Supply of Diagnostic system fro Remote diagnostics (Per 1 Number) Tool set for wheel sensor mounting and maintenance of MSSDAC consisting of torque wrench, ratchet, testing plate , measuring tape , screw driver and gloves and multimeter fluke 115 (1 Nos).NOTE: DETAILED SPECIFICATION AND DRAWING AS PER ANNEXURE." (UNIT: DP). | | | | | | | |
| 31 | H | 2.00 | Numbers | 105000.00 | 210000.00 | AT Par | 210000.00 | Rs. |
| | Description:- Tool set for wheel sensor mounting and maintenance of MSDAC consisting of torque wrench, ratchet, testing plate, measuring tape, screw driver, and gloves and multi meter fluke 115 | | | | | | | |
| 32 | H | 4.00 | Set | 1479720.00 | 5918880.00 | AT Par | 5918880.00 | Rs. |
| | Description:- Supply, installation testing and commissioing of integrated power supply (IPS) system SMPS based up to 6 lines in RE area confirming to RDSO specification no. RDSO/SPN/165/2012 version 3.0 with latest amendment and configuration as enclosed annexure, including power supply module for axle counter (BPAC), data logger and with ei module. IPS should be supplied with 60 nos of 2v-200AH LMLA battery, along with 16 sq.mm cable for IPS battery 20 mtrs, ASM panel : 50 mtrs and data logger 50 mtrs required, firm will commission the same with minimum one month prior notice period. | | | | | | | |
| 33 | H | 5.00 | Set | 1210338.00 | 6051690.00 | AT Par | 6051690.00 | Rs. |
| | Description:- Supply installation and commissioning of SMPS BASED IPS upto 4 lines in RE area confirming to RDSO specification No. RDSO/SPN/165/2012/VERSION 3.0 with latest amendment. and to the sketch No. as in annexure attached including power supply for axle counters (for BPAC) , DATA LOGGER and with EI module . IPS should be supplied with uncharged low maintenance cells 2V 300AH . whenever installation & commissioning is required , Firm will charge cells and commission the same with minimum one month notice period. | | | | | | | |
| 34 | H | 290.00 | Numbers | 5900.00 | 1711000.00 | AT Par | 1711000.00 | Rs. |
| | Description:- Route-Colour light signal LED signal lighting unit for railway signalling as per RDSO spec RDSO/SPN/153/2011 Rev 4.1 or latest. | | | | | | | |
| 35 | H | 85.00 | Numbers | 7080.00 | 601800.00 | AT Par | 601800.00 | Rs. |
| | Description:- Calling on-Colour light signal LED signal lighting unit for railway signalling as per RDSO spec RDSO/SPN/153/2011 Rev 4.1 or latest. | | | | | | | |
| 36 | H | 160.00 | Numbers | 5900.00 | 944000.00 | AT Par | 944000.00 | Rs. |
| | Description:- Shunt-Colour light signal LED signal lighting unit for railway signalling as per RDSO spec RDSO/SPN/153/2011 Rev 4.1 or latest. | | | | | | | |
| 37 | H | 150.00 | Numbers | 8673.00 | 1300950.00 | AT Par | 1300950.00 | Rs. |
| | Description:- Supply of Red LED integrated type as per RDSO specification RDSO SPN/199/ | | | | | | | |
| 38 | H | 210.00 | Numbers | 8673.00 | 1821330.00 | AT Par | 1821330.00 | Rs. |
| | Description:- Supply of yellow LED integrated type as per RDSO specification RDSO SPN/199/ | | | | | | | |
| 39 | H | 160.00 | Numbers | 9853.00 | 1576480.00 | AT Par | 1576480.00 | Rs. |
| | Description:- Supply of green LED integrated type as per RDSO specification RDSO SPN/199/ | | | | | | | |
| 40 | H | 86.00 | Numbers | 3713.76 | 319383.36 | AT Par | 319383.36 | Rs. |
| | Description:- Fabrication and supply of GI termination box for point machine of size 45cm x23cm x 12 cm, the termination box to be fabricated out of GI sheet 10SWG. The termination box to be provided with 2 nos of M.S. angle of size 50x50x6mm of length 1000mm each and GI pipe of 40 mm dia and length of 450mm. The termination box is also provided with teak wood plank of size 25 mm thicknesses for fixing of terminals. Necessary bolts,nuts and screws are to be provided for fabrication of termination box. The termination box is to be painted double coat with approved quality of paint black enamel on to the outside and to be painted with white enamel in to inside of the box (All materials are to be procured by the contractor" | | | | | | | |
| 41 | H | 86.00 | Numbers | 49200.00 | 4231200.00 | AT Par | 4231200.00 | Rs. |
| | Description:- Supply of Clamp point lock along with ground connections suitable for 220 mm Electric Point Machine & Thick Web Switch (TWS) to drawing no. RDSO/S-3454 alt. A ver.1 or latest | | | | | | | |
| | H | 86.00 | Numbers | 109150.00 | 9386900.00 | AT Par | 9386900.00 | Rs. |

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|----|---|--------|---------|-----------|------------|--------|------------|-----|
| 42 | Description:- ELECTRICAL POINT MACHINE NON TRAILABLE, INTERNAL LOCKING 220MM THROW, MINIMUM AC IMMUNITY 160V AC, COMPLETE WITH JUNCTION BOX, TWO OF TELESCOPIC PIPES, POINT INSULATION SET, GROUND CONNECTION SET, CLAMP POINT LOCK 60 KG TWS FOR BG TOOLS AND COMPLETE ACCESSORIES AS PER DRG No.RDSO-S/11000,RDSO/S-3454, RDSO/S-3395 AND ALL AS PER RDSO SPECIFICATION IRS:S24/2002 WITH AMENDMENT 01 IRS TYPE THE FOLLOWING SET OF TOOL KIT IS SUITABLE FOR BOX SHALL BE SUPPLIED ALONG WITH EVERY SET OF EIGHT POINT MACHINE; 1. M6/M8/M18/M20/M22 BOX SPANNERS, 2. M10/M12 SPANNER, 3. ADJUSTABLE WRENCH, 4. SCREW DRIVER 300 MM LONG. A COPY OF INSTALLATION AND MAINTENANCE MANNUAL SHALL BE SUPPLIED ALONG WITH EACH POINT MACHINE. | | | | | | | |
| 43 | H | 24.00 | Numbers | 77880.00 | 1869120.00 | AT Par | 1869120.00 | Rs. |
| | Description:- Supply of Electric Point Operating Machine IRS type 143 mm throw non trailable to operate on 110V DC complete with lock and detector slides and cable terminal box along with standard tool kit set for every 8 PointMachines conforming to RDSO Specn. No. IRS : S24/2002 (Amd. 1) & for Motor IRS : S-37/82 Assy. Drg. No. RDSOS/108000 Motor Drg. No. RDSS/10910 with ground connection for IRS .INSPECTION BY RDSO point machine. (suitable for 60 Kg rails).MAKE:SELF | | | | | | | |
| 44 | H | 270.00 | cum | 3591.00 | 969570.00 | AT Par | 969570.00 | Rs. |
| | Description:- Excavation by Manual means in rock and very hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing including drilling and all incidental work in all conditions as directed by Engineer in-charge. (Without deduction of Equivalent Quantity of Normal Soil)" | | | | | | | |
| 45 | H | 200.00 | cum | 3142.00 | 628400.00 | AT Par | 628400.00 | Rs. |
| | Description:- "Excavation by Manual means in rock and very hard rock with hammer / chisel / pavement breaker etc. where blasting is not permitted due to special circumstances and if specifically ordered in writing including drilling and all incidental work in all conditions as directed by Engineer in-charge. (With deduction of Equivalent Quantity of Normal Soil)" | | | | | | | |
| 46 | H | 2.00 | Numbers | 499500.00 | 999000.00 | AT Par | 999000.00 | Rs. |
| | Description:- Supply of GPS tagging featured cable route locator/tracer set suitable for detecting underground armoured optic fiber cable (OFC) and signaling cables with LCD Graphic Display active/passive modes and depth range. 3M-10m. Model STLOC10 GPS make Stanlay or equivalent | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--------------------------|--|----------|----------|-----------|-------------|----------|------------|--------------|
| Schedule J-IPMPLS | | | | | | | 1293922.96 | |
| 1 | J | 1.00 | Numbers | 375048.14 | 375048.14 | AT Par | 375048.14 | Rs. |
| | Description:- Supply of Standard 19" Rack Mountable LER(Label Edge Router) , IP- MPLS Router with Redundant DC power feed-48V DC nominal, equipped with interfaces: 2 x 10G (optical) SFP+ Ports along with 2 Nos of 40 Kms 10G SFP+ LC Modules, 4 x 1GbE (Optical) interface along with 4 Nos of 1GbE Single Mode Bi-directional SFP (10KMs) Modules and 4 x 1GbE (Copper) interfaces & Modules and slot for 16 x E1 (G.703), {supply of 16 E1 card is not included in this item and is catered in item number A2 (4)}, Mounting kit with all necessary accessories & Software, Perpetual Licenses. As Per RDSO Document No.STT/TAN/IP-MPLS/2020 Version 01 or latest. Inspection : RDSO | | | | | | | |
| 2 | J | 1.00 | Numbers | 57418.52 | 57418.52 | AT Par | 57418.52 | Rs. |
| | Description:- 2 x 10G Adapter Interface without 10G SFP+ Modules for LER Routers.Inspection RDSO. | | | | | | | |
| 3 | J | 2.00 | Numbers | 99336.43 | 198672.86 | AT Par | 198672.86 | Rs. |
| | Description:- 10G SFP+ Module with 40 Km range for above Routers. Inspection RDSO | | | | | | | |
| 4 | J | 4.00 | Numbers | 1196.22 | 4784.88 | AT Par | 4784.88 | Rs. |
| | Description:- 1G SFP Module with 10 Km range for above Routers. Inspection RDSO. | | | | | | | |
| 5 | J | 8.00 | Numbers | 135.86 | 1086.88 | AT Par | 1086.88 | Rs. |
| | Description:- Supply of Single Mode Patch Cord length 3 meters (LC-SC/SC-SC/LC-LC/FC-LC) asper site requirement [Detailed Specification in Technical Document] Inspection: Consignee | | | | | | | |
| 6 | J | 305.00 | Metre | 25.64 | 7820.20 | AT Par | 7820.20 | Rs. |
| | Description:- Supply of STP CAT- 6 Cable compliant with latest EIA/TIA-568-B-2-1 Standard forCAT 6 Cable 305 Meters Roll /Bundle.[Detailed Specification in Technical document]Inspection:RITES | | | | | | | |
| 7 | J | 20.00 | Numbers | 2.20 | 44.00 | AT Par | 44.00 | Rs. |
| | Description:- Supply of RJ 45 connector suitable for STP/UTP cable [Detailed Specification inTechnical Document] Inspection: Consignee | | | | | | | |
| 8 | J | 10.00 | Numbers | 84.45 | 844.50 | AT Par | 844.50 | Rs. |
| | Description:- Supply of CAT 6 UTP Patch Cord-2 meters [Detailed Specification in Technical Document] Inspection : Consignee | | | | | | | |

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| 9 | J | 10.00 | Numbers | 370.98 | 3709.80 | AT Par | 3709.80 | Rs. |
| Description:- Supply of CAT-6 Patch Cord-5mtrs length [Detailed Specification in Technical Document] Inspection : Consignee | | | | | | | | |
| 10 | J | 100.00 | Metre | 98.35 | 9835.00 | AT Par | 9835.00 | Rs. |
| Description:- Supply of PVC insulated armored 3 Core2.5 Sqmm, 14 AWG,1.1 KV Grade Outdoor Strengthen Copper for UPS Power Supply Distributions per BIS/ISI Standards and all accessories required for installation. [Detailed Specification in Technical Document]Confirming to IS:1554 Part-1.Inspection : RITES | | | | | | | | |
| 11 | J | 1.00 | Numbers | 4774.87 | 4774.87 | AT Par | 4774.87 | Rs. |
| Description:- Supply of Ethernet Surge Protector[Detailed Specification in Technical Document]Inspection : Consignee | | | | | | | | |
| 12 | J | 4.00 | Numbers | 4970.77 | 19883.08 | AT Par | 19883.08 | Rs. |
| Description:- Supply of IP Endpoint Perpetual Licenses(any SIP Phone)for above Server. Inspection RITES | | | | | | | | |
| 13 | J | 1.00 | Numbers | 12328.15 | 12328.15 | AT Par | 12328.15 | Rs. |
| Description:- Installation, Commissioning & Testing of LER & LSR IP MPLS Routers including supply & Installation of all the accessories like Power cable, Earthing Cable,Optical Patch Cords of 3 mtr- 4 Nos for LER & 8 Nos for LSR s, Cat 6 Patch Cords of 1 mtr -4 Nos ,one 6A MCB for each LSR and LSR ,wiring etc. as required for Routers | | | | | | | | |
| 14 | J | 10.00 | CORE | 35.10 | 351.00 | AT Par | 351.00 | Rs. |
| Description:- Splicing /Dropping/Termination of each Fiber /Pigtail in the LIU/FDMS/Termination Joints through fusion Splicing of the termination of OFC Cables.[Detailed Specification in Technical Document] . | | | | | | | | |
| 15 | J | 1.00 | Lumpsum | 45723.50 | 45723.50 | AT Par | 45723.50 | Rs. |
| Description:- Wiring and Termination for IP Phones up to last point (includes configuring, fixing of I/O box, Drawing of UTP/OF Cable, Fixing of PVC Pipe /Casing capping. All miscellaneous materials required for fixing to be supplied by Contractor as per site requirement) | | | | | | | | |
| 16 | J | 10.00 | Numbers | 300.00 | 3000.00 | AT Par | 3000.00 | Rs. |
| Description:- Splicing of single fiber | | | | | | | | |
| 17 | J | 1.00 | Numbers | 102874.84 | 102874.84 | AT Par | 102874.84 | Rs. |
| Description:- Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection RDS | | | | | | | | |
| 18 | J | 1.00 | Numbers | 252985.21 | 252985.21 | AT Par | 252985.21 | Rs. |
| Description:- Supply and Installation of Standard 19- inch Rack Mountable Layer 3, 24 Port Managed Switch with 24 Nos of 10/100/1000 Ethernet Ports with POE + Support and Redundant AC Power Supply, Dedicated Stacking Module 4 x 10 GE SFP+ Ports for uplink including 4 Nos of 10 GE BX SM SFP+ Modules, as per para number 4.0 of RDSO SPECIFICATION NO.RDSO/SPN/TC/83/2020 Rev 2 or latest. Mounting Kit with all necessary accessories to be supplied. [Detailed Specification in Technical Document]Inspection RDSO. | | | | | | | | |
| 19 | J | 1.00 | Numbers | 7601.31 | 7601.31 | AT Par | 7601.31 | Rs. |
| Description:- Supply and Termination of 12 Fiber 12 SC Type Rack Mountable FDMS loaded withSC '0' DB & Adaptor SC SM Pigtail 1.5 meters with all the accessories required for installation[Detailed Specification in Technical Document] Inspection: RITES | | | | | | | | |
| 20 | J | 50.00 | Metre | 573.09 | 28654.50 | AT Par | 28654.50 | Rs. |
| Description:- Supply and Fixing of PVC Trunking of 50X50mm with cover of 2mm thick and 2mtrlength each. (This includes all materials like clamps, bends, couplers, fixing required forlaying).Inspection Consignee | | | | | | | | |
| 21 | J | 2.00 | Numbers | 21490.05 | 42980.10 | AT Par | 42980.10 | Rs. |
| Description:- Supply and Installation of Control IP Telephones with Hands Free and Gooseneck Operation for Way Side Station as Per Clause 11 of RDSO/SPN/TC/99/2012 Rev.2 or latest(Detailed Spec in Tender Document). Inspection RDSO | | | | | | | | |
| 22 | J | 2.00 | Numbers | 5029.59 | 10059.18 | AT Par | 10059.18 | Rs. |
| Description:- Supply and installation of SIP Based Basic IP Phone with 128x64 Pixel Graphical LCD as per Specification. Inspection RITES | | | | | | | | |
| 23 | J | 1.00 | Numbers | 17416.30 | 17416.30 | AT Par | 17416.30 | Rs. |
| Description:- Supply, Installation and Commissioning for 4 Port Gateway to support 4 Port Concurrent Emergency Communication at HQ/Way station tosupport 4 wire ports/ 4 Port Gateway with built in 2 wires to 4 wire Hybrid convertor to support 4 wire output as Per Clause 13 of RDSO/SPN/TC/99/2012 Rev.2 or latest. (Detailed Spec in Tender Document). Inspection RDSO | | | | | | | | |
| 24 | J | 1.00 | Numbers | 16360.77 | 16360.77 | AT Par | 16360.77 | Rs. |
| Description:- Supply and Installation of Port License of TCCS Communication Server in 1+2Configuration as per RDSO/SPN/TC/99/2012 Rev.2.Inspection RDSO | | | | | | | | |
| | J | 1.00 | Numbers | 2111.07 | 2111.07 | AT Par | 2111.07 | Rs. |

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| 25 | Description:- Supply and Installation of Port License of TCCS Communication Server in 1+2 Configuration as per RDSO/SPN/TC/99/2012 Rev.2. Inspection RDSO | | | | | | | |
| | J | 1.00 | Numbers | 32784.58 | 32784.58 | AT Par | 32784.58 | Rs. |
| 26 | Description:- Supply and installation of Layer 2 Switch as per RDSO/SPN/TC/65/2021, Rev.6.0 or latest. Minimum 8+2 Port Manageable with 8 Nos 10/100/1000 Mbps Ethernet port, POE+ & Single Fiber 2 Nos 1G SFP Port with BX SM SFP Optical Modules loaded including mounting kit and all the accessories. Inspection RDSO | | | | | | | |
| | J | 1.00 | Numbers | 34769.72 | 34769.72 | AT Par | 34769.72 | Rs. |
| 27 | Description:- Supply and Installation Testing and Commissioning of Isolated DC-AC Inverter 1+1HA input 48 V DC, Output:220V AC 1000VA or higher, with all required Protection Circuits. Inspection: RITES | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|-----------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-----------|---------------------|
| Schedule A1-TELE SOR | | | | | | | 229112.80 | Above/ Below/Par |
| 2 | Please see Item Breakup for details. | | | | 140560.00 | 63.00 | 229112.80 | |
| | Description:- TELE SOR | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--------------------------------|--------------------------------------|----------|----------|-----------|-------------|----------|-----------|---------------------|
| Schedule A2-RE SOR TELE | | | | | | | 146131.20 | Above/ Below/Par |
| 3 | Please see Item Breakup for details. | | | | 123840.00 | 18.00 | 146131.20 | |
| | Description:- RE SOR TELE | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---------------------------|---|----------|----------|------------|-------------|----------|-------------|--------------|
| Schedule F1-SSBPAC | | | | | | | 14326144.00 | |
| 1 | F1 | 8.00 | Per Unit | 1202420.00 | 9619360.00 | AT Par | 9619360.00 | Rs. |
| | Description:- Microprocessor based Solid State Block Proving by Axle Counter (Digital) [SSBPAC(D)] complete for Single line operation as per RDSO Spec. No. RDSO/SPN/175/2005 Ver.1 or latest including Station Master's Block Panel, Wired Relay Racks with Relays, necessary Lightening & Surge Protection Devices for Power Lines 24V DC & Data Lines and Block Telephone as per RDSO/SPN/191/2005 or latest(PER UNIT = Set Per Block section) | | | | | | | |
| 2 | F1 | 8.00 | Pair | 108088.00 | 864704.00 | AT Par | 864704.00 | Rs. |
| | Description:- Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. | | | | | | | |
| 3 | F1 | 8.00 | Pair | 250000.00 | 2000000.00 | AT Par | 2000000.00 | Rs. |
| | Description:- Supply of Industrial Grade E1 Modem with 8 nos. E&M VF channels suitable for connecting UFSBI/SSBPAC(D) block along with UP & DN Line HA-SSDAC. Compatible with 48V DC power supply. | | | | | | | |
| 4 | F1 | 8.00 | Pair | 55460.00 | 443680.00 | AT Par | 443680.00 | Rs. |
| | Description:- Installation, Testing and commissioning of SSBPAC(D) complete including Station Master's Block panel and Automatic Media Changeover Card for Single line operation as per RDSO Spec. No. RDSO/SPN/175/2005 Ver.1 or latest. | | | | | | | |
| 5 | F1 | 8.00 | Numbers | 2800.00 | 22400.00 | AT Par | 22400.00 | Rs. |
| | Description:- Supply of Adaptor Card | | | | | | | |
| 6 | F1 | 8.00 | Numbers | 2000.00 | 16000.00 | AT Par | 16000.00 | Rs. |
| | Description:- Supply of display card of Block Panel (Eft-688M) | | | | | | | |
| 7 | F1 | 8.00 | Numbers | 12500.00 | 100000.00 | AT Par | 100000.00 | Rs. |
| | Description:- Supply of Non-Vital output module (Eft-531M3) | | | | | | | |
| 8 | F1 | 8.00 | Numbers | 23000.00 | 184000.00 | AT Par | 184000.00 | Rs. |
| | Description:- Supply of Vital Output Module (Eft- 532M3) | | | | | | | |
| 9 | F1 | 8.00 | Numbers | 48000.00 | 384000.00 | AT Par | 384000.00 | Rs. |
| | Description:- Supply of voter card module (Eft-530M2) | | | | | | | |
| 10 | F1 | 8.00 | Numbers | 31000.00 | 248000.00 | AT Par | 248000.00 | Rs. |
| | Description:- Supply of Communication card Module (Eft-533MS) | | | | | | | |
| 11 | F1 | 8.00 | Numbers | 5000.00 | 40000.00 | AT Par | 40000.00 | Rs. |
| | Description:- Supply of Input Module (Eft-529-M3) | | | | | | | |

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|---|----|------|---------|----------|-----------|--------|-----------|-----|
| 12 | F1 | 8.00 | Numbers | 50500.00 | 404000.00 | AT Par | 404000.00 | Rs. |
| Description:- Supply of CPU module (Eft-528M7) | | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|-----------|----------|----------|-----------|-------------|----------|------------|--------------|
| Schedule H1-NON SOR TELE | | | | | | | 7050985.69 | |
| 1 | H1 | 1.00 | Numbers | 19696.00 | 19696.00 | AT Par | 19696.00 | Rs. |
| Description:- Supply of Lightning and surge arrester of class B and C suitable for single phase supply in TT network as per RDSO spec.no.RDSO/spn/1665/2004 amdt .5 or latest & as recommended by RDSO vide letter no.STS/S/IPS/Genl. Dated27.01.2006. | | | | | | | | |
| 2 | H1 | 1.00 | Numbers | 4924.00 | 4924.00 | AT Par | 4924.00 | Rs. |
| Description:- Installation and commissioning of class B and C arrestors as supplied. These din rail mountable devices along with 63 amps HRC input fuse and fuse base shall be fixed in a wall mountable cabinet of size 450x250x150 mm made as MS steel of 20 gauge or better with IP31 protection and power coating.All the internal power wiring shall be made by using 10sq.mm cu cable.the PF contract of the class C arrestor shall also be wired using cable thickness of 2,5 sq.mm and terminated on a suitable terminal block. | | | | | | | | |
| 3 | H1 | 1.00 | Numbers | 160000.00 | 160000.00 | AT Par | 160000.00 | Rs. |
| Description:- Supply and installation of SMPS charger 230V AC 50Hz input and 48V DC/25 Amps output in (2+1 configuration) suitable for VRLA battery as per RDSO specs: RDSO/SPN/TL/23/99 ver.4. | | | | | | | | |
| 4 | H1 | 4.00 | Numbers | 20250.00 | 81000.00 | AT Par | 81000.00 | Rs. |
| Description:- Supply and installation of FDMS and termination IN and OUT 24 fibre OFC cables (with all connecting materials) routing/dressing fibres as per direction of engineer/incharge. this work includes testing of fibres in the section/block. | | | | | | | | |
| 5 | H1 | 1.00 | Numbers | 48256.00 | 48256.00 | AT Par | 48256.00 | Rs. |
| Description:- Supply of 19"- 42U Rack complete with fittings for housing SDH equipment, FDMS, DDF and other equipment like cable managers, completely wired using krone module and other equipments like runaway ladders etc., as per technical specification below. It should be able to lock all the equipment with only order wire telephone outside the rack , the rack should of APW President/ Rittal make etc., The components of the rack are specified below. this includes transportation and installation of rack in prefab/building at specified stations. a. Rack S33 42U 600WX600D -1 no. b.fixed side panels 42U x 600 D -2nos. c.Front glass door plain 42U/600W -1 no. d. Rear MS dOOR pLAIN 42 U/600W-1 no. e. Caster with brakes- 2nos. f.Fans directly mounted on the top 48v Dc 90CFM -2NOS. g.Krone mounting bracket -01 No. h. MCB mounting panel with MCBS a)32 Amps MCBs (DP) - 2 nos. b) 6 Amps MCBs (DP) -6 nos. i) earth continuity kit -o1 nos j. Equipment trays-5 nos. k. channel with cable loops 42U-2 NOS. (Inspection by consignee) | | | | | | | | |
| 6 | H1 | 1.00 | Numbers | 140000.00 | 140000.00 | AT Par | 140000.00 | Rs. |
| Description:- Supply and installation of 48V,200AH VRLA battery bank as per specification No.IRS-S-93/96A[One set battery bank contains 24 nos of 2v/200AH cells]Inspection Clause RDSO | | | | | | | | |
| 7 | H1 | 1.00 | Numbers | 4000.00 | 4000.00 | AT Par | 4000.00 | Rs. |
| Description:- Supply of 100 pair krone box with modules & mount assembly wall mounting type powder coated with surge and lightning arrester and locking facility. | | | | | | | | |
| 8 | H1 | 1.00 | Numbers | 600.00 | 600.00 | AT Par | 600.00 | Rs. |
| Description:- Installation testing and commissioning Of 100/50/20 pair Kronnection box ,fitting the same wall as directed by Railway Representative. | | | | | | | | |
| 9 | H1 | 200.00 | Metre | 55.00 | 11000.00 | AT Par | 11000.00 | Rs. |
| Description:- Supply of 10 pair switch board telephone cable 0.5mm dia, annealed copper conductor PVC insulates as per IPS TC-24/91 | | | | | | | | |
| 10 | H1 | 200.00 | Metre | 11.00 | 2200.00 | AT Par | 2200.00 | Rs. |
| Description:- Drawing of Switch Board/Power cable through PVC pipe/Casing capping fixed on the walls ,as directed by site incharge.This work includes termination of cables in the krone connector and fixing of IPM and extending earthing to krone box. | | | | | | | | |
| 11 | H1 | 20.00 | Metre | 307.75 | 6155.00 | AT Par | 6155.00 | Rs. |
| Description:- Supply and fixing of cable truff of 2 inch x 2 inch | | | | | | | | |
| 12 | H1 | 2.00 | Numbers | 1800.00 | 3600.00 | AT Par | 3600.00 | Rs. |
| Description:- Supply of 2T VF transformer 470:1120 ohms impedance conforming to Spec. IRS-TC-76/2000. | | | | | | | | |
| 13 | H1 | 2.00 | Numbers | 5600.00 | 11200.00 | AT Par | 11200.00 | Rs. |
| Description:- Supply of universal DTMF way station control telephone conforming to spec., No.IRS.TC-82/2005 | | | | | | | | |
| 14 | H1 | 2.00 | Numbers | 4500.00 | 9000.00 | AT Par | 9000.00 | Rs. |

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|----|---|-------|----------|----------|------------|--------|-----|
| | Description:- Supply of power supply unit for universal DTMF way station control phone conforming to spec.No.IRS:TC-72/97 or latest with 12V/7AH MF battery. | | | | | | |
| 15 | H1 | 3.00 | Numbers | 3134.13 | 9402.39 | AT Par | Rs. |
| | Description:- Supply of Rodometer (Distance Recorder) similar to Bosch Make Model No: 1011662 or better. | | | | | | |
| 16 | H1 | 2.00 | Numbers | 4200.00 | 8400.00 | AT Par | Rs. |
| | Description:- Supply of light weight portable control telephone | | | | | | |
| 17 | H1 | 1.00 | Numbers | 2000.00 | 2000.00 | AT Par | Rs. |
| | Description:- Supply of 0dB gain adjustable GP antenna for VHF set Model No: GM300/GM338/GM950 etc. | | | | | | |
| 18 | H1 | 1.00 | Numbers | 6500.00 | 6500.00 | AT Par | Rs. |
| | Description:- Supply of low loss RF coaxial cable RG 217U with silver tipped connectors on both ends, 30 meters length. | | | | | | |
| 19 | H1 | 1.00 | Numbers | 10195.20 | 10195.20 | AT Par | Rs. |
| | Description:- Supply of Steel Table suitable to provide telecom battery, SMPS charger, Decoder and etc(As per Diagram) of 700mm(H) x 900mm(W) x 450mm (D), with the single shelf, three side covered with perforated sheets and front provided with leaf door with external locking facility top covered with laminated table top cover and final finished colour with the choice of officer in charge. material used for construction 1. steel tube 30 x 30 x 15 mm (R) tube. (2) SIDE AND BACK covering 3.0mm perforated sheet of 1.2 mm thick. 3 door 1.2 mm thick sheets 4. table top 19 mm pre laminated sheets 5. choice of office in charge available in stocking enamel. | | | | | | |
| 20 | H1 | 5.00 | Numbers | 648.80 | 3244.00 | AT Par | Rs. |
| | Description:- Supply of Caller Id phone similar to Binatone Concept 700 or better. | | | | | | |
| 21 | H1 | 1.00 | Numbers | 13000.00 | 13000.00 | AT Par | Rs. |
| | Description:- Supply and installation of Maintenance Free Battery 12V/80AH. Similar to Amar Raja make or better. | | | | | | |
| 22 | H1 | 1.00 | Numbers | 5539.50 | 5539.50 | AT Par | Rs. |
| | Description:- Installation, testing and commissioning of 25 Watt VHF set with GP antenna and antenna cable of length 30 M, power supply and battery of 12V 65AH. This includes supply and fixing of GI pipe of suitable dia to the required height as per the guidance of the field engineer, wiring of antenna cable through PVC conduit. All the materials required for installation to be supplied by the contractor.VHF equipment, SMPS power supply, Antenna&antenna cable will be supplied by the Railways. | | | | | | |
| 23 | H1 | 1.00 | Numbers | 3800.00 | 3800.00 | AT Par | Rs. |
| | Description:- Supply of Power supply, SMPS, 12V-For Equipment: Transceiver HF/VHF/UHF, Mobile/Static, Output Current:15A, Charging:Float and Boost | | | | | | |
| 24 | H1 | 1.00 | Numbers | 13900.00 | 13900.00 | AT Par | Rs. |
| | Description:- Supply of transceiver VHF module 25 Watts synthesised configuration VM-04 of bandwidth 136-174 MHz with DTMF microphone, of motorola make model GM338/XiR-M-3688 or kenwood TK7360 as per specification enclosed. | | | | | | |
| 25 | H1 | 7.00 | Numbers | 40000.00 | 280000.00 | AT Par | Rs. |
| | Description:- Wiring of SDH ADMs, PDMUX with accessories, surge protection arrangement, FDF, racks, DDF, runway ladder etc. this includes connecting all pig tails and optical patch cards etc. to SDH and primary mux equipment with all interface cards to 48V bus including supply of wires and connectors, terminations of all E1s on DDF, termination of VF interface circuits to krone type MDF at both ends including taking PVC cable over runway or a wall, krone type DP with all surge and lighting protection complete for all the circuits derived from PD mux. This work includes wiring and connection of telephones in SM's room and extension of generator supply equipment. All miscellaneous materials like power wires conduit and accessories etc. shall be supplied by the contractor. Suitable link panel should be provided on this rack for testing and isolation of fault. | | | | | | |
| 26 | H1 | 16.00 | Numbers | 87320.00 | 1397120.00 | AT Par | Rs. |
| | Description:- Supply and Installation of OFC & E1 Integrated Device with OFC ports & STM interlinking Interface (E1 interface) / 12 interface Six (V.21/V.23) supporting 2W/4W & Six Quad Protection Ports (2W/4W) for individual Six E&M interfaces suitable for up to 2U height/19" rack mountable for LVCD / Digital Axle Counter / UFSBI /Control Phone connectivity on Optical Fiber & E1(STM) with Automatic Change Over features (E1 to Quad /OFC-OFC-Quad/OFC-E1-Quad), Quad health indications for each E&M interface & Potential Free contacts as required by Railways & four Ethernet ports & RS232 ports integrated in the unit / Audible failure uplink resettable buzzer & Dual power supply support 18VDC to 72 VDC.This includes supply of required optical patch cords for connecting to FDMS unit. one DC to AC adaptor to be provided. Make: Team Engineers , MROTECK or better. | | | | | | |
| 27 | H1 | 24.00 | Per Unit | 31027.50 | 744660.00 | AT Par | Rs. |
| | Description:- Provision of arrangements for Transportation of light materials/men with tools, documents etc. by Road vehicle (minimum 4+1 capacity), from central location to the work spot and back for the usage of Railway Site Engineer & department staff, as per the instruction of railway site engineer. The central location of the vehicle would be TK/DRU. (Per Unit= Per Vehicle Per month) | | | | | | |

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| 28 | H1 | 4.00 | Numbers | 92950.00 | 371800.00 | AT Par | 371800.00 | Rs. |
| | Description:- Local service terminal portable intel core i7 10th Gen with windows 10 pro (8GB) MAKE-Dell or equivalent as per Gem specification attached | | | | | | | |
| 29 | H1 | 7.00 | Numbers | 142779.60 | 999457.20 | AT Par | 999457.20 | Rs. |
| | Description:- Supply of Programmable Primary Digital drop insert Multiplexer complete with all accessories as per RDSO Specification IRS: TC: 68/2012,Rev.0 (Amdt. No. -1), including Connectors and cables required for installation including 100 Pair Krone type MDF. Each channel card shall have minimum four channels per card. The single sub rack shall be capable of being equipped up to min. 60 Channels without additional power supply unit.The MUX shall be wired & equipped for 30 channels, with following circuits:- 20 Nos of VF 2W/4W E&M Circuits; 4 Nos of 2 Wire FXO/Exchange Interface Circuits; 6 Nos. of 2W Subscriber/Hotline circuits along with ringer cards. Make/ BrandWEBFIL LTD/KOLKATA | | | | | | | |
| 30 | H1 | 7.00 | Numbers | 159064.00 | 1113448.00 | AT Par | 1113448.00 | Rs. |
| | Description:- Supply of SDH Add/drop (STM-I) short haul as per DOT Generic specification No: G/SDH-04/01 Feb 95 with latest amendment having in built cross connected capability at junction stations. The equipment shall be able to work upto a fibre length of minimum 60KM and shall be fully equipped to carry 21E1s and shall be usable as a terminal multiplexer where ever required, expandable upto a capacity of 63E1s along with connecting cable and accessories upgradable to STM-4, Inspection by RDSO. Make/Model: TEJAS/TJ 1400 or similar. Detail specification as per Annexure - A (Attached). Make/Model No. TEJAS Model: TJ1400 | | | | | | | |
| 31 | H1 | 1.00 | Numbers | 35000.00 | 35000.00 | AT Par | 35000.00 | Rs. |
| | Description:- Supply of Digital transmission measurement set suit to RDSO spec IRS:TC:43/87 or latest (Anuvidyut Make or better) | | | | | | | |
| 32 | H1 | 1.00 | Numbers | 52000.00 | 52000.00 | AT Par | 52000.00 | Rs. |
| | Description:- Supply of Digital cross talk measuring set to RDSO spec. IRS:TC 45/88 or latest. (Anuvidyut Make or better) | | | | | | | |
| 33 | H1 | 1.00 | Numbers | 283130.00 | 283130.00 | AT Par | 283130.00 | Rs. |
| | Description:- Supply of Cable fault locator (Stanley make or similar) | | | | | | | |
| 34 | H1 | 20.00 | Metre | 86.17 | 1723.40 | AT Par | 1723.40 | Rs. |
| | Description:- Cutting grooves on walls / floor for fixing PVC pipes 50mm dia and drawing the cable through it resurfacing to original conditions | | | | | | | |
| 35 | H1 | 1.00 | Set | 50000.00 | 50000.00 | AT Par | 50000.00 | Rs. |
| | Description:- Supply of tools kit comprising of the following tools: 1, Kronne insertion tool - 5 Nos. 2. Digital multimeter (Rishabh) - 1 No. 3. Electronic insulation tester 100 volts dual range Model No IT/100/II orequivalent - 1 No, 4. Blow torch working on LPG with following accessories (a)Universal Handle - 1 No (b)Burner - 8 No (c)Neck Tubes -2 No (d)Gas hose pipe - 2 Mtrs (e)Spanner - 1 No (f)SwivetTypeRegulatingValve 1No. (g)Branded Cylinder of 2Kg. Capacity 2Nos 5. Screw driver set - Taparia make - 1 No, 6. Double ended spanner set of 12 Nos-Taparia make- 1 set, 7. Cutting Piler - 6" - Taparia make - 2 Nos. B. Nose Plier - 6" - Taparia make - 2 Nos 9. Wire stripper - 2 Nos. 10. Cable joinerq Collapsible tool kit CompiEing the following (a) Hacksaw frame - 1No. (b)Hacksaw Blade - 5 No. (c)Hot chisel 12 inches - 1 No (d)Adjustable Spanner 2inches jaw - 1 No (e)Scissors 15 inches - 1 No (f)Din Cutter 15 inches - 1 No (g)Ball pean Hammer 1 1/2 tbs - 1 No (h)File Flat 5 inches - 1 No (i)Triangular File smooth - 1 No 0)Steeltape 3M - 1 No (k)Steeltape 30M - 1 No (l)Soldering iron soldron S0watts - 1 No (m)Knife 8 inches - 1 No (n) Knife 12 inches - 1 No | | | | | | | |
| 36 | H1 | 1.00 | Numbers | 12600.00 | 12600.00 | AT Par | 12600.00 | Rs. |
| | Description:- Supply of Optical power meter as per RDSO spec IRS TC 55-2006, Revision -1[of PON make or better] | | | | | | | |
| 37 | H1 | 12.00 | Numbers | 3000.00 | 36000.00 | AT Par | 36000.00 | Rs. |
| | Description:- Supply of Magneto Telephone as per spec IRS:TC-36-2020 with version 1.0 or latest of Make Telereach or better | | | | | | | |
| 38 | H1 | 1.00 | Numbers | 249000.00 | 249000.00 | AT Par | 249000.00 | Rs. |
| | Description:- Supply of EXFO 36 decibel Single Mode Optical Time Domain Reflectometer (OTDR) Brand: EXFO (Detailed Description/Specification as per Product # 1 of GeM Contract No. GEMC-511687713989569 dt.10/01/2023) | | | | | | | |
| 39 | H1 | 4.00 | Numbers | 5500.00 | 22000.00 | AT Par | 22000.00 | Rs. |
| | Description:- Supply of Wireless Router similar to TP-Link Archer C7 AC1750 - Dual Band Gigabit or better | | | | | | | |
| 40 | H1 | 4.00 | Numbers | 73997.00 | 295988.00 | AT Par | 295988.00 | Rs. |
| | Description:- Supply of DESKTOP COMPUTER, HPC(DHANUSH), i7 9700, 16GB RAM, 2TB HDD, 2GB GC, 128GB SSD,WINDOW-10 OR SIMILAR, MAKE/BRAND:- HP, AS PER GEM CONTRACT NO.-511687722905384 DATE-21- 09-2022 | | | | | | | |
| 41 | H1 | 1.00 | Numbers | 57088.00 | 57088.00 | AT Par | 57088.00 | Rs. |

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| | Description:- Supply of Ethernet Tester of Stanley Make NETCATPRO2 or Similar. [Detailed Specification in Technical Document] | | | | | | | |
| 42 | H1 | 3.00 | Numbers | 4453.00 | 13359.00 | AT Par | 13359.00 | Rs. |
| | Description:- Supply of Drilling Machine 550 watt similar to Bosch Corded Brushed Electric Drill 550 Watt Model No-GSB 550 | | | | | | | |
| 43 | H1 | 1.00 | Numbers | 228000.00 | 228000.00 | AT Par | 228000.00 | Rs. |
| | Description:- Supply of OFC Splicing Machine. Make FUJKURA/SUMITOMO/STAR/STANLAY (Detailed Description on Annexure-A/Specification as per Product # 1 of GeM Contract No. GEMC-511687770934271 dt.27/01/2023) | | | | | | | |
| 44 | H1 | 14000.00 | Kilometre | 16.50 | 231000.00 | AT Par | 231000.00 | Rs. |
| | Description:- Video recording of cable trench using minimum 720P and above HD camera and submit one copy in New removable hard disks (With capacity as per requirement); Two copies in DVD-R | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---------------------------------|---|----------|----------|-----------|-------------|----------|-------------|--------------|
| Schedule H2-NON SOR IPIS | | | | | | | 21695622.91 | |
| 1 | H2 | 1.00 | Set | 700000.00 | 700000.00 | AT Par | 700000.00 | Rs. |
| | Description:- Supply of Central Data Controller(CDC) units with Central Data Switch along with all software as per RDSO specification RDSO/SPN/TC/108/2019 Ver 0.0 dtd 7.2.2020 or latest & as per Technical specification- - Central Data Controller Unit consists of standard PC with other accessories & as per RDSO specification RDSO/SPN/TC/108/2019 ver 0.0 or latest This also includes 1)3.2.1 The Central Data Controller (CDC) shall consist of two CPUs (PCs) in redundant mode connected through an CDS for data synchronization, one 17" (minimum) Colour monitor to be connected through a Keyboard-Video-Mouse (KVM), speaker and microphone for live announcement. (2)3.2.3 Both the CPUs of CDC shall be pre-loaded with necessary software and database packages for working of Integrated Passenger Information System (IPIS). There shall be continuous data synchronization between both the CPUs connected through a LAN link (3)3.2.5 CDC shall be provided with voice recording and playback facility for making live PC based announcement. (4)3.2.7 UPS of minimum 1 KVA with minimum 25 minutes battery backup on 0.8 KVA shall be provided for uninterrupted operation of the CDC. (5)3.2.9 Cabinet of the equipment shall be well designed to sustain external vibration due to movement of trains. (6)3.2.12 System shall be fully equipped with suitable hardware & software to acquire updated data of running trains from NTES/ COIS or any central server & process updated data of running trains to display on various types of display boards, coach guidance systems and announcement on PA system. System should have provision to send updated data of running trains both automatically and manually on display boards. Any change in data protocol shall be updated time to time. NTES/COIS or any other central server connectivity & protocol shall be provided by the concerned Railway | | | | | | | |
| 2 | H2 | 1.00 | Set | 11000.00 | 11000.00 | AT Par | 11000.00 | Rs. |
| | Description:- Installation, testing and commissioning of CDC set as per RDSO Specification No.RDSO/ SPN/ TC/ 108/2019 Rev.0.0 with Amdt -1 or latest as above Inspection By- Consignee | | | | | | | |
| 3 | H2 | 1.00 | Numbers | 169620.63 | 169620.63 | AT Par | 169620.63 | Rs. |
| | Description:- Supply, Installation, Testing and Commissioning of RMS Server as per RDSO Specification No. RDSO/SPN/TC/108/2019 or latest as per specification No.4.3 of chapter-4 of Tender document. | | | | | | | |
| 4 | H2 | 144.00 | Numbers | 45600.00 | 6566400.00 | AT Par | 6566400.00 | Rs. |
| | Description:- Supply of Double Faced Coach Guidance Display Boards as per RDSO specification RDSO/SPN/TC/108/201 Ver 0.0 dtd 7.2.2020 or latest & as per Technical specification box and other:1)4.17 All display boards shall be constructed using PCB modules. Fixing of these modules shall be such that easy replacement of PCB module should be possible in case of failure. Such replacement shall not call for removing any other PCBs. (2)4.19 ICs used for the display board should be preferably of surface mounted devices (SMD) to ensure high reliability. (3) 4.20 The Coach Guidance Display (CGD) Board shall indicate the Coach No./ Train No. scheduled to arrive/depart from that platform. (4)4.21 Individual coach display board across the platform should display Train No & Coach No. alternatively. (5)4.22 The display systems shall be suitable for working in AC/ DC electrified and nonelectrified sections. It shall be suitable in all sections including where locomotives thyristor controlled single phase or 3-phase induction motors having haul passenger or freight trains and chopper-controlled EMU stocks are operated (6) 4.24 When there is no data to be displayed, it should not display any garbage on the display board. The boards shall have proper built-in recovery mechanism like watchdog timers to automatically recover the information in case the processor goes haywire 4.30 Suitable 'Earthing' point shall be provided for earthing the body of display board. Brass bolt of 6 mm diameter shall be provided at appropriate place & suitably marked. | | | | | | | |
| 5 | H2 | 72.00 | Numbers | 4000.00 | 288000.00 | AT Par | 288000.00 | Rs. |
| | Description:- Installation ,Testing & Commissioning of Double Faced Coach Guidance Display Boards in Shade area. This accessories including hanging structure for fixing Coach Indication Boards as per RDSO specification RDSO/SPN/TC/108/2019 Ver 0.0 dtd 7.2.2020 or latest & as per Technical s ecification | | | | | | | |

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| 6 | H2 | 72.00 | Numbers | 9600.00 | 691200.00 | AT Par | 691200.00 | Rs. |
| | Description:- Installation & Commissioning of Double Faced Coach Guidance Display Boards in Open area. This includes all required accessories including hanging structure, pole and fixing Coach Indication Boards as per RDSO specification RDSO/SPN/TC/108/2019 Ver 0.0 dtd 7.2.2020 or latest & as per Technical specification fastening and rain hood as per instruction of site incharge-Transportation,Installation and commissioning of double faced coach guidance display board as per RDSO spec. RDSO/SPN/TC/108/2019 ver .0 or latest, (including installation in open areas as per instruction of site engineer. All fixture required for this purpose will be arranged by the contractor at his own cost.Including supply, fabrication and supply & erection of pole (the pole as per RDSO specification clause 4.33), angles,fastening and rain hoods as per instruction of site incharge) | | | | | | | |
| 7 | H2 | 6.00 | Numbers | 69764.50 | 418587.00 | AT Par | 418587.00 | Rs. |
| | Description:- Supply of Platform Data Controller as per RDSO specification no. RDSO/ SPN/ TC/ 108/ 2019, Ver. 0.0, Amdt.- 1 or latest and as per instruction of Engineer incharge. Inspection By- RDSO | | | | | | | |
| 8 | H2 | 6.00 | Numbers | 5688.49 | 34130.94 | AT Par | 34130.94 | Rs. |
| | Description:- Installation, testing and commissioning of Platform Data Controller as per RDSO specification no. RDSO/ SPN/ TC/ 108/ 2019,Ver. 0.0, Amdt.- 1 or latest and as per instruction of Engineer incharge. All required material [except CDS/ PDC] for fixing the CDS/ PDC are to be arranged by the contractor.. Inspection By- Consignee | | | | | | | |
| 8 | H2 | 12.00 | Numbers | 415988.43 | 4991861.16 | AT Par | 4991861.16 | Rs. |
| | Description:- Supply, installation, testing and commissioning of Single line Double Face rain Arrival/ Departure display board as per RDSO specification no. RDSO/ SPN/ TC/ 108/ 2019 Rev.0.0 with Amdt -1 or latest. Inspection By- RDSO | | | | | | | |
| 9 | H2 | 6.00 | Numbers | 237448.54 | 1424691.24 | AT Par | 1424691.24 | Rs. |
| | Description:- Supply, installation, testing and commissioning of Train formation At A Glance display board with all accessories as per RDSO specification no. RDSO/ SPN/ TC/ 108/ 2019 Rev.0.0 with Amdt -1 or latest. Inspection By- RDSO | | | | | | | |
| 10 | H2 | 1.00 | Numbers | 16276.40 | 16276.40 | AT Par | 16276.40 | Rs. |
| | Description:- Supply and installation of Audio Amplifier similar to Ahuja model SSA-250,workable on 230V AC / 12VDC supply with protection against wrong battery polarity connections in the control console, as directed at site. | | | | | | | |
| 11 | H2 | 1.00 | Numbers | 30145.35 | 30145.35 | AT Par | 30145.35 | Rs. |
| | Description:- Supply of two zone 700 watt PA amplifier (350+350 watt) Ahuja make model TZA-7000 or similar model of Bosch, Philips.(Inspection by Consignee). | | | | | | | |
| 12 | H2 | 1.00 | Numbers | 1703.36 | 1703.36 | AT Par | 1703.36 | Rs. |
| | Description:- Supply of microphone Ahuja make ACM-66 or similar model of Philips, Bosch. (Inspection by Consignee). | | | | | | | |
| 13 | H2 | 36.00 | Numbers | 2300.00 | 82800.00 | AT Par | 82800.00 | Rs. |
| | Description:- Supply & Installation of BOX speaker PS 300T wall mounting similar to ahuja make | | | | | | | |
| 14 | H2 | 10.00 | Numbers | 3060.03 | 30600.30 | AT Par | 30600.30 | Rs. |
| | Description:- Supply of 20 watts Column speaker with 10 watt tapping, matching transformer and driver unit, make reputed as LBD 8373 of Philips make, SCM 30T of Ahuja make or similar. Inspection By Consignee | | | | | | | |
| 15 | H2 | 36.00 | Numbers | 2219.72 | 79909.92 | AT Par | 79909.92 | Rs. |
| | Description:- Supply of 30 watts Industrial Horn speaker with 5,10,15,20,25 watt tapings, matching transformer and driver unit, make reputed as LBD 8347, 8308 of Philips make, UHC-30XT of Ahuja make or similar. Inspection By Consignee | | | | | | | |
| 16 | H2 | 46.00 | Numbers | 627.84 | 28880.64 | AT Par | 28880.64 | Rs. |
| | Description:- Fixing of column & horn type speakers in covered area with all type of hardware required withproper size clamps & fixtures etc. as approved by Railways. As per instruction of Engineer at site.(Inspection by Consignee). | | | | | | | |
| 17 | H2 | 4600.00 | Metre | 52.22 | 240212.00 | AT Par | 240212.00 | Rs. |
| | Description:- Supply, installation, testing and commissioning, laying of 2 core screened/shielded multistrand PVC insulated wire [24/0.2 mm dia.] for speaker load line. Inspection By- Consignee | | | | | | | |
| 18 | H2 | 4200.00 | Metre | 83.58 | 351036.00 | AT Par | 351036.00 | Rs. |
| | Description:- Supply of power cable 3 core, 2.5 sq mm, multi strand [36/0.3 mm dia.] cable as per IS 694:1990 reaffirmed 1995 or latest suitable for Railway electrification area, shall be of reputed make like Havells, Delton, LAPP, Finolex, or superior. Inspection By Consignee | | | | | | | |
| 19 | H2 | 4800.00 | Metre | 45.00 | 216000.00 | AT Par | 216000.00 | Rs. |
| | Description:- Supply of STP (Shielded Twisted Pair) CAT-6 Cable Specification:Category : 6 SFTP Solid cable.,Conductor : 23 AWG Multi-cores (Solid),Conductor Meta : Bare Copper.Insulation Materia : HD-PE.,Pairs : 2 Insulated conductors twisted together.,Shield : Aluminum / Polyester Foil Tinned copper Braiding.,Sheath : PVC/LSZH.Cable Diameter : 7.5 mm nominal etc Dlink make or similar | | | | | | | |

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|----|---|----------|---------|-----------|------------|--------|------------|-----|
| 20 | H2 | 11000.00 | Metre | 26.00 | 286000.00 | AT Par | 286000.00 | Rs. |
| | Description:- Laying of Communication CAT-6 cables/STP/OFC cables/power cables in 1" dia PVC conduct pipe/HDPE pipe as per site condition. This includes laying and installation/clamping charges of PVC pipe/HDPE pipe with protective arrangements | | | | | | | |
| 21 | H2 | 3000.00 | Metre | 100.00 | 300000.00 | AT Par | 300000.00 | Rs. |
| | Description:- Supply of PVC conduit pipe of 25mm diameter, 2mm thickness and 3 meters in length with ISI mark conforming to IS:9537/1983-Part II. It consists of one number of moulded bend, 2 nos clamp and its fixing screws for every three meters of PVC pipe (Rate mentioned is per set).MODI make or similar | | | | | | | |
| 22 | H2 | 100.00 | Metre | 219.03 | 21903.00 | AT Par | 21903.00 | Rs. |
| | Description:- Supply and Installation of PVC channel , with cover, of size 75 mm x 50 mm of 1.2 mm thickness. The installation to be done as per instructions of site incharge. Inspection By Consignee | | | | | | | |
| 23 | H2 | 21000.00 | Metre | 15.00 | 315000.00 | AT Par | 315000.00 | Rs. |
| | Description:- Laying of solid lubricated HDPE pipe As per Technical sPecification | | | | | | | |
| 24 | H2 | 12.00 | Numbers | 2630.00 | 31560.00 | AT Par | 31560.00 | Rs. |
| | Description:- Supply, installation , testing and commissioning of Media converter fiber to Ethernet 100 base T single mode fiber with all required accessories including AC 230V to DC power adapter as per technical specification | | | | | | | |
| 25 | H2 | 12.00 | Numbers | 37700.00 | 452400.00 | AT Par | 452400.00 | Rs. |
| | Description:- Supply and installation of Digital Platform double sided clock with GPS synchronization as per RDSO Specification No RDSO/SPN/TC / 62 /2008 Rev 3.0 or latest (Inspection Clause: RDSO) | | | | | | | |
| 26 | H2 | 1.00 | Numbers | 34106.00 | 34106.00 | AT Par | 34106.00 | Rs. |
| | Description:- Provision (Supply & installation) of maintenance free earthing arrangement (exothermic welding method to be used). The earth resistance should be less than 1 Ohm, for getting 1 Ohm resistance contractor has to provide another earth pit if required at his cost. Separate cables to be brought from each earth rod to inside the room, GI pipe at the entry of the room only to be used. Earth reading to be painted | | | | | | | |
| 27 | H2 | 8.00 | Numbers | 5200.00 | 41600.00 | AT Par | 41600.00 | Rs. |
| | Description:- Supply of 12 Fiber FDMS box loaded similar to DIGISOL make | | | | | | | |
| 28 | H2 | 8.00 | Numbers | 1500.00 | 12000.00 | AT Par | 12000.00 | Rs. |
| | Description:- Splicing and termination of 12 F OFC Cable in the termination BOX | | | | | | | |
| 29 | H2 | 1.00 | Numbers | 189750.00 | 189750.00 | AT Par | 189750.00 | Rs. |
| | Description:- Supply and Installation of 6KVA online UPS with one hour back up, minimum VAH rating of battery bank is 9600, Make: APC/Numeric. Or similar | | | | | | | |
| 30 | H2 | 1800.00 | Metre | 435.81 | 784458.00 | AT Par | 784458.00 | Rs. |
| | Description:- Supply of hot dipped galvanised perforated type cable tray of size 150 x 75 mm made of 16 SWG(1.6 mm thick) GI sheet necessary coupler plates & fixing material. (Inspection by Consignee). | | | | | | | |
| 31 | H2 | 1800.00 | Metre | 93.59 | 168462.00 | AT Par | 168462.00 | Rs. |
| | Description:- Fixing & erection of hot dipped galvanised perforated type cable tray with necessary fixtures & accessories as required at site for execution of work. As per instruction of Engineer at site. (Inspection by Consignee). | | | | | | | |
| 32 | H2 | 6.00 | Numbers | 21240.00 | 127440.00 | AT Par | 127440.00 | Rs. |
| | Description:- Supply and installation of Digital office clock with GPS synchronisation (stand alone mode) as per RDSO spec.No. RDSO/SPN/TC@47>47@2008 Rev.3 with RED LED with complete installation including all necessary accessories as directed by Railway Site Engineer.(RED LED) | | | | | | | |
| 33 | H2 | 1800.00 | Metre | 250.00 | 450000.00 | AT Par | 450000.00 | Rs. |
| | Description:- Cutting of platform surface (Tile/Slab) for a depth of 25cm and a width of 10cms and refilling /Reconditioning/ Concreting /Repairing the platform after laying HDPE/PVC pipe and cable. Cutting should be done with marble cutting machine in proper manner and restore the same as before in such a manner that aesthetic of the platform is not disturbed. (Laying of pipes/cables not included) As per technical S ecification | | | | | | | |
| 34 | H2 | 60.00 | Metre | 339.62 | 20377.20 | AT Par | 20377.20 | Rs. |
| | Description:- Supply & fixing of GI pipes medium grade 65mm dia to carry all cables at stations, cabins and other buildings such as SP/SSP/SS cable huts, as per IS Specification 1239 (Pt.I) with fixing material and making necessary entry arrangements as per site condition. As per instruction of site engineer. (Inspection by Consignee). | | | | | | | |
| 35 | H2 | 20.00 | Numbers | 165.00 | 3300.00 | AT Par | 3300.00 | Rs. |
| | Description:- Supply of OFC patch cord 3 Mtrs length as per the site requirement .(for Network switch SFP and FDMS) | | | | | | | |
| 36 | H2 | 2.00 | Numbers | 950209.78 | 1900419.56 | AT Par | 1900419.56 | Rs. |

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|----|----|-------|-----------|--|----------|--------|----------|-----|
| | | | | Description:- "Supply installation and Commissioning of True Colour LED Indoor Video Display Board-5 lines with all necessary accessories confirming to RDSO Spec.No RDSO/SPN/TC/67/2013 Rev" Inspection by RDSO | | | | |
| | H2 | 1.00 | Numbers | 33942.86 | 33942.86 | AT Par | 33942.86 | Rs. |
| 37 | | | | Description:- Supply, Installation and Commissioning of driving software for integrated Passenger Information System inclusive of voice files and other data required for Coach indication boards, Computerized Announcement System as per RDSO's Specification No. RDSO/SPN/TC/108/2019, Ver.-0.0 or latest and as per technical Specification. This shall drive all displays including 5/6 line display board & LFD/TVs. Inspection by RDSO | | | | |
| | H2 | 1.00 | Numbers | 4059.98 | 4059.98 | AT Par | 4059.98 | Rs. |
| 38 | | | | Description:- "Supply and fixing of ACDB for AC Distribution Box along with Numbers required MCBs, Lock and Key arrangement and ISI Mark MCBs of Various Rating as per site requirement. Including all the accessories required for installations | | | | |
| | H2 | 10.00 | Numbers | 9357.42 | 93574.20 | AT Par | 93574.20 | Rs. |
| 39 | | | | Description:- Supply and Installation of 19" 9U RackWall/Pole Mount ,with all accessories Like Electrical fitting, Fan Tray, PatchPanel, Cable Manager, PDU | | | | |
| | H2 | 2.00 | Kilometre | 17727.60 | 35455.20 | AT Par | 35455.20 | Rs. |
| 40 | | | | Description:- Supply of 12 Core Metal Strengthened Outdoor armoured Optic Fibre Cable (ITUTG-652-D) and all the accessories required for installation, as per latest TEC/BSN | | | | |
| | H2 | 1.00 | Numbers | 16759.97 | 16759.97 | AT Par | 16759.97 | Rs. |
| 41 | | | | Description:- Supply of Compact Aluminium Step Ladder of 12 Feet. | | | | |

3. ITEM BREAKUP

| Schedule | | Schedule A-SOR | | | | | |
|----------|---------|---|-------|----------|--------|------------|--|
| Item- 1 | | SOR | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount | |
| 1 | 101010 | Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.3 Mtrs. Laying of cables is not included in this schedule. | Metre | 33000.00 | 34.65 | 1143450.00 | |
| 2 | 101020 | Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.5 Mtrs. Laying of cables is not included in this schedule. | Metre | 16500.00 | 42.98 | 709170.00 | |
| 3 | 101060 | Excavation of trench to a depth of 1 Mtr. for track crossing of cables, laying of DWC/ RCC pipes with collar/coupling, refilling of trench by ramming and consolidating it as per the instructions of Railway representative at site. During excavation of trench it has to be ensured that the excavated soil does not mix with the ballast available. The depth of 1m trench shall be from the bottom of sleepers for track crossings. Laying of cables is not included in this schedule. (Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule) | Metre | 1000.00 | 208.35 | 208350.00 | |
| 4 | 101070 | Excavation of trench to a depth of 1 Mtr. for road crossing of cables, laying of DWC/ RCC pipes with collar/ coupling, refilling of trench by ramming and consolidating it and resurfacing it to the original position. Laying of cables is not included in this schedule. (Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule). | Metre | 500.00 | 270.83 | 135415.00 | |

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|----|--------|---|---------|-----------|--------|------------|
| 5 | 101080 | Provision of GI pipes (50/100mm dia) for cable laying with offset at both ends and with couplings over RCC Bridges/ Drainage/ Culverts with concrete masonry supports of size 300mm x 300 mm x 300 mm at an interval of 2m. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this schedule). [Stone jelly of size 20/25mm, bricks, sand, cement and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Metre | 1500.00 | 181.95 | 272925.00 |
| 6 | 101090 | Provision of GI pipes-(50/100mm dia) for cable laying with offset at both ends and with couplings over girder bridges by fixing on suitable MS Clamps at an interval of 2 Mtrs. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this schedule). [MS angles, flats, bolts and nuts for manufacturing fixing clamps, bricks, river sand , cement and all other miscellaneous required for the work shall be supplied by the Contractor]. | Metre | 800.00 | 215.25 | 172200.00 |
| 7 | 101100 | Provision of GI pipes (50/100mm dia) for cable laying in hard rocky area with off sets at both ends duly supported by concrete blocks of size 300mm x 300 mm x 300 mm at an interval of 2m. The ends of the pipes shall be closed with brick masonry abutments work so that no cable is exposed, The work shall be carried out as per the instructions of Railway representative at site. (Supply of GI pipes with couplings and laying of cables is not included in this schedule). [Stone jelly of size 20/25mm, bricks, sand, cement and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Metre | 1500.00 | 168.08 | 252120.00 |
| 8 | 101110 | Laying of signaling/power/telecommunication cables as per cable plan in cable trenches, masonry ducts, RCC Pipes, DWC pipes, GI Pipes etc. (Supply of cables is not included in this schedule). | Metre | 460000.00 | 9.83 | 4521800.00 |
| 9 | 101150 | Refilling of cable trench 1m depth by 0.3m width throughout, with earth after laying of cables, and consolidating the trench by ramming and leveling. | Metre | 31000.00 | 8.33 | 258230.00 |
| 10 | 101160 | Refilling of cable trench 1m depth by 0.5m width throughout, with earth after laying of cables, and consolidating the trench by ramming and leveling. | Metre | 15000.00 | 10.43 | 156450.00 |
| 11 | 101180 | Supply of RCC cable markers as per drawing No.CSTE/CN/OFC/1. The lettering on the cable marker shall be "SIG" / "TELE" / "OFC" as per the instructions of Railway representative at site. | Numbers | 1230.00 | 166.29 | 204536.70 |
| 12 | 101190 | Digging of pit to a depth of 800mm of size 300mmX300mm, casting of concrete foundation of size 300mmX300mmX300mm and Placing of RCC cable markers on top of the foundation and refilling the pit and consolidating it by ramming. The cable markers shall be provided at an interval of 20 Mtrs. within station limits and 50 Mtrs. outside station limits throughout the cable route, diversions and also at every track/road crossing. | Numbers | 1230.00 | 121.43 | 149358.90 |

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|----|--------|---|---------|---------|---------|------------|
| 13 | 101200 | Excavation of cable coil pit to a size of 1.5mx1.5m and depth as instructed by Railway representative at site, for coiling the cables in rear of relay rooms/ AFTC huts, apparatus cases etc. The work includes coiling the underground cables, and placing closely one layer of country bricks of size approx. 220mm x 100mm x 60mm breadth wise above the cables to cover all the cables in the cable pit, closing and consolidating the pit by ramming and leveling. [Country bricks of size 220mmx100mmx60mm (approximately) shall be supplied by the Contractor]. | cum | 740.00 | 513.00 | 379620.00 |
| 14 | 101220 | Supply of GI pipes - 50mm dia -3.65mm thick as specified in Vol.II of the Tender document. | Metre | 1500.00 | 343.20 | 514800.00 |
| 15 | 101230 | Supply of GI pipes - 100mm dia-4.5mm thick as specified in Vol.II of the Tender document | Metre | 800.00 | 838.80 | 671040.00 |
| 16 | 101240 | Supply of GI pipes - 150mm dia-4.8mm thick as specified in Vol.II of the Tender document | Metre | 1500.00 | 1273.50 | 1910250.00 |
| 17 | 102010 | Excavation of pit, casting concrete foundation and erection of apparatus case full size as per Drg. No.SG/CN/02/6 and fixing of 2 Nos. of 'E' type locks, one for the front door and another for the back door, fixing of one hard wood shelf plank 37mm thick and painting the apparatus case inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of apparatus case is not included in this schedule). [Foundation bolts & nuts, 'E' type locks, cement, river sand, stone jelly of size 20/25 mm, hardwood plank of 37mm thick, paints, varnish, fixing bolts & nuts and all other miscellaneous materials required for the work shall be supplied by the Contractor.] | Numbers | 325.00 | 9875.30 | 3209472.50 |
| 18 | 102020 | Excavation of pit, casting concrete foundation and erection of apparatus case half size as per Drg. No.SG/CN/02/7, fixing one 'E' type lock for the front door and latching arrangement for the back door, and fixing of one hardwood shelf plank 37mm thick and painting the apparatus case inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of apparatus case is not included in this schedule). [Foundation bolts and nuts, cement, 'E' type locks, river sand, stone jelly of size 20/25mm, 37mm hard wood planks, latching arrangements, paints, varnish, fixing bolts & nuts and all other miscellaneous materials required for the work shall be supplied by the Contractor] | Numbers | 111.00 | 6966.60 | 773292.60 |

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|----|--------|--|---------|-------|----------|-----------|
| 19 | 102060 | Fabrication and erection of rail staging, concreting, construction of stock brick, masonry support, supply and provision of concrete slabs 3 Nos. of size 300mm x 1700mm x 80mm for platform on stage support for erecting apparatus case full size on embankment and casting concrete foundation and erection of apparatus case full size over the compacted earth and masonry , fixing 2 Nos. of 'E' type locks, one for the front door and another for the back door, supply and fixing of one hardwood shelf plank of 37mm thick and painting the boxes inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of apparatus case is not included in this schedule. Rails of different lengths will be supplied by Railway and the Contractor has to cut the rails to required lengths). [Cement river sand, jelly of size 20/25 mm, stock bricks, MS base plates, fixing bolts and nuts, fabricating materials, MS Clamps for fixing rails, MS rods for reinforcement of slabs, hardwood plank 37mm thick, 'E' type locks, paints and varnish and all miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 38.00 | 13898.35 | 528137.30 |
| 20 | 102070 | Fabrication and erection of rail staging, concreting, construction of stock brick, masonry support, supply and provision of concrete slabs for platform, 3 Nos. of size 300mm x 1000mm x 80mm for platform stage support for apparatus case half size on embankment and casting concrete foundation and erection of apparatus case half size over the compacted earth and masonry work , fixing 1 No. of 'E' type locks, for the front door and the latching arrangements for the back door and fixing one H.W shelf plank of 37mm thick and painting the boxes inside and outside with one coat of red-oxide and two coats of aluminium paints. (Supply of apparatus case is not included in this schedule. Rails of different lengths will be supplied by Railway and the Contractor has to cut the rails to required lengths). [E-type locks, foundation bolts, Cement river sand, stone jelly of size 20/25 mm, stock bricks, MS base plates, fixing bolts and nuts, fabricating materials, MS Clamps for fixing rails, MS rods for reinforcement of slabs, hardwood plank 37mm thick, paints, varnish and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 32.00 | 10060.60 | 321939.20 |

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|----|--------|---|----------|----------|---------|------------|
| | | Termination of main, tail, Signaling and power cables and internal wiring on terminal/ fuse blocks in new apparatus cases, cable termination boxes and in gate Lodges excluding cable termination rack at relay room. The work includes fixing of all new cables by teakwood clamp on teakwood base plank, fixing of Phynolic synthetic industrial fibre base fine weave cotton fibre board 6mm thick for terminal board to suit each apparatus case, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, painting of particulars on sleeves and also on the inner side of the doors of apparatus cases. After terminations are over, the side openings of apparatus case foundation shall be closed with brick work, cement plastered, the inter-space filled with river sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of PBT terminals and Fuse blocks is not covered in this schedule). [Cement, teakwood cable clamp 50mm x 50mm, base planks 100mm x 25mm, Phynolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, PVC/Nylon sleeves, varnish, paints, bolts, nuts and washers, Nondeteriorating type of fuses of various capacities, Aluminium cable tags, sealing compound, country bricks 220mm x 100mm x 60mm, copper bus bars, brass screw, river sand, wire PVC3/0.75mm copper and other miscellaneous materials shall be supplied by the Contractor]. | | | | |
| 21 | 102101 | Termination on 25/60mm PBT terminals (new location) (Phynolic sheet) {Unit: Per Terminal Block} | Per Unit | 33500.00 | 93.16 | 3120860.00 |
| 22 | 102102 | Termination on PBT fuse block (new location) (Phynolic sheet) {Unit: Per Fuse Block} | Per Unit | 1700.00 | 113.56 | 193052.00 |
| | | Manufacture and supply of M.S. relay frames of suitable size to hold up to 4/ 8/ 12/ 20 relays /plug in type HMU as required by Railways and fixing them in apparatus cases for all types of signal control circuits, LC gate control circuit and Point control circuits, fixing of plug boards, relays, resistors and electrolytic condensers on Phynolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, wiring and termination as per approved circuit diagram and painting the particulars. (Supply of all types of relays, plug boards, connectors, retaining clips and plug in type HMU is not covered in this schedule). [Wire PVC copper, 3/0.75mm and 16/0.2mm copper, Phynolic synthetic industrial fibre base fine weave cotton fibre sheet - 6mm thick to IS specification 2036 - 1995 - Type F5, for fixing resistors and condensers, MS flats 25mm x 6mm brass bolts and nuts, paints, soldering materials, resistors, condensers and all other miscellaneous materials required for the work shall be supplied by the contractor]. | | | | |
| 23 | 102121 | Wiring of Signal/ point/ LC control circuit (up to 4 relays/Plug in type HMU) | Set | 90.00 | 2673.25 | 240592.50 |
| 24 | 102122 | Wiring of Signal/ Point/ LC control circuit (up to 8 relays/plug in type HMU) | Set | 52.00 | 4739.60 | 246459.20 |
| 25 | 102123 | Wiring of Signal/ Point/ LC control circuit (up to 12 relays/plug in type HMU) | Set | 11.00 | 6137.85 | 67516.35 |

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| 26 | 102140 | Fixing and wiring of platform repeaters. The work involves fixing of platform repeater using suitable fixing arrangements at places indicated, wiring the same and painting as per the instructions of Railway representative at site. The signal shall be connected to the apparatus case using cables neatly clamped. The work also includes provision of one EWS lock. (Laying of cable is not included in the scope of this work.) (Supply of repeater signals and cables is not included in this schedule). [Wire PVC 3/0.75mm copper, paint, EWS lock and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 10.00 | 3687.30 | 36873.00 |
| 27 | 102180 | Excavation of pit, casting concrete foundation as per Drg.No.SG/CN/02/9 using metallic templates, for erection of colour light signals up to 4 aspects. [Foundation bolts, cement, river sand, stone jelly of size 20/25mm dia and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 116.00 | 5008.20 | 580951.20 |
| 28 | 102190 | Erection of surface base, signal pole, mounting of colour light signal up to 4 aspects complete on Signal pole/ Off-set bracket, (for LED/ filament bulbs) with lenses, triple pole lamp holder, filament switching units, CLS transformer, current regulators (whichever is applicable), fixing of ladder with platform complete and concreting of ladder shoe, fixing of number plates, marker board, lens guard, fixing of speed limit board wherever necessary, termination of tail cables, wiring of signal unit with PVC wire 3/0.75mm copper, provision of EWS locks, and painting of one coat of red oxide and two coats of aluminium/ enamel paints. When the aspect is fixed on Offset bracket using 'U' bolts and nuts, a through bolt shall be provided by drilling a hole in the signal pole to prevent the offset bracket from sliding down. (Supply of surface base, Offset bracket, CLS pole, CLS aspects complete, ladder with shoes and platform, Speed limit board, LED aspects, current regulators, lamp holders, lamps, filament switching unit and CLS transformer is not covered in this schedule). ['U' bolts and nuts, through bolts and nuts, cement, stone jelly 20/25mm dia, river sand, Signal Collar Rings, wire PVC 3/0.75mm copper, lens-guard, all fixing bolts and nuts, lead wool, paints PVC/Nylon sleeves, enameled number plates. enameled marker boards, EWS locks, and all other miscellaneous materials for the work shall be supplied by the Contractor]. | Numbers | 116.00 | 5501.20 | 638139.20 |
| 29 | 102200 | Excavation of pit and casting concrete foundation as per Drg, No.SG/CN/02/10 using metallic templates, for erection of ground type colour light shunt signal. [Foundation bolts and nuts, cement, river sand, stone jelly of size 20/25mm and all other miscellaneous materials for the work shall be supplied by the Contractor]. | Numbers | 35.00 | 2518.55 | 88149.25 |

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|----|--------|---|---------|-------|---------|-----------|
| 30 | 102210 | Erection of Ground type shunt signal complete including surface base, signal pole, LED aspects/ lenses, bulbs with holders (whichever is applicable), fixing of lens guards, number plate, termination of tail cables, wiring of signal unit with PVC wire 3/0.75mm copper, provision of EWS locks and painting of one coat of red oxide and two coats of Aluminium/ enamel paint. (Supply of Ground type shunt signal complete including surface base, signal pole, LED aspects, holder, bulbs, and lenses is not covered in this schedule). [Wire PVC 3/0.75mm copper, lens guards, EWS locks, Enameled number plates, bolts and nuts, lead wool, paints and all other miscellaneous materials shall be supplied by the Contractor]. | Numbers | 35.00 | 2097.00 | 73395.00 |
| 31 | 102220 | Fixing of Offset brackets using 'U' bolts and nuts, erection of Post type shunt Signals, termination of tail cables and wiring using wire PVC 3/0.75mm copper, provision of EWS lock and painting of one coat of redoxide and two coats of aluminium/ enameled paint. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the Off-set bracket from slipping down. (Supply of Post type Shunt Signals, LED aspects and Off set brackets is not covered in this schedule). ['U' bolts and nuts, through bolts with nut, wire PVC 3/0.75mm copper, EWS lock, Enameled number plates, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. | Numbers | 25.00 | 1613.25 | 40331.25 |
| | | Fixing of junction type route indicators - 1 way to 6 ways - complete/ fixing of additional limb to the existing route indicators, termination of tail cables, wiring as per approved circuits diagram using wire PVC 3/0.75mm copper, provision of required No of EWS locks, wire mesh, and painting. (Supply of junction type Route Indicators - complete and additional limb is not covered in this schedule). [3/0.75mm wire PVC, fixing bolts and nuts, EWS locks, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the Contractor]. | | | | |
| 32 | 102241 | Fixing and wiring of direction type route indicator - 1 way | Numbers | 14.00 | 1539.75 | 21556.50 |
| 33 | 102242 | Fixing and wiring of direction type route indicator - 2 way | Numbers | 14.00 | 1824.00 | 25536.00 |
| 34 | 102243 | Fixing and wiring of direction type route indicator - 3 way | Numbers | 2.00 | 2108.25 | 4216.50 |
| 35 | 102244 | Fixing and wiring of direction type route indicator - 4 way | Numbers | 4.00 | 3183.00 | 12732.00 |
| 36 | 102250 | Fixing of Offset brackets using 'U' bolts and nuts, erection of Calling On Signals/ 'A' marker lights, termination of tail cables and wiring using wire PVC 3/0.75mm copper, provision of EWS lock, number plates/ marker boards and painting. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the Offset bracket from slipping down. (Supply of Calling On Signal/ 'A' marker light, LED aspects/holders & bulbs and Off set brackets is not covered in this schedule). ['U' bolts and nuts, through bolts with nut, wire PVC 3/0.75mm copper, EWS lock, Enameled number plates, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. | Numbers | 80.00 | 1427.25 | 114180.00 |

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|----|--------|---|---------|--------|---------|-----------|
| 37 | 102270 | Excavation of pit in and around the existing signals very carefully without causing damage to the working cables and shifting the Signals along with the concrete foundations for approximately 1m to a nearby position so as to clear the infringement from the nearest track centre as instructed by Railway representative at site. The existing cable coils shall be released carefully so as to give access for shifting. Necessary masonry work and earth work shall be carried out in and around the signals after shifting as instructed by Railway representative at site. [All materials required for the work shall be supplied by the Contractor]. | Numbers | 20.00 | 2591.25 | 51825.00 |
| 38 | 102300 | Supply and provision of Screening arrangement for Signals in RE area as per standard practice. The work comprises of providing MS angle frame and wire mesh in order to avoid close proximity of OHE wires. The work also includes provision of earthing wire using 4 SWG GI wires from the screening arrangement up to surface base as per the instructions of Railway representative at site. [All materials required for this work shall be supplied by the Contractor]. | Numbers | 10.00 | 1016.60 | 10166.00 |
| 39 | 102340 | Provision of earth electrodes as per drawing No.SG/SN/02/13 and earthing of metallic sheath and armour of all cables in all apparatus cases, relay room, equipment room, ASM room for block and control, and earthing of all equipments in apparatus cases, power room, relay rack, cable termination rack, control panel, signals, lever frames with MS flat 35mm X 6mm/19c cable (MS flat for closer by areas and MS flat/19c cable combination for farther areas) as per the instructions of Railway representative at site. The work includes painting of earth resistance value on the earth pit. (Supply of 19C cable is not covered in the scope of this schedule). [MS flat for earthing 35mm X 6mm, cement, GI earth electrodes, common salt, charcoal, country bricks, river sand, soldering materials and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 156.00 | 1799.00 | 280644.00 |
| 40 | 102360 | Installation of combined type point machine - IRS type and connecting all ground connections including wiring and termination in point machine and interconnections between point machine and CT box through PVC hose pipe with 3/0.75mm and 7/1.40mm copper wire and painting. This work includes provision of insulation to stretcher bars, throw bar lug and "D" bracket wherever required, cutting of notches on the point machines covers to suit crank handle configuration. (Combined type point machine with ground connection, uninsulated stretcher bar, throw bar lug and 'D' brackets will be supplied by Railways. [All types of insulations connected to point work, coal bengal, all type of bolts and nuts, washers spring/flat wire PVC 7/1.4mm copper, PVC hope pipe, paints, PVC/nylon sleeves and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 24.00 | 8856.15 | 212547.60 |
| | | Supply of Colour light Signal pole 140mm dia, 4.6m/ 3.6m tall with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 41 | 102381 | Supply of colour light Signal pole (4.6m) | Numbers | 62.00 | 3318.00 | 205716.00 |
| 42 | 102382 | Supply of colour light Signal pole (3.6m) | Numbers | 54.00 | 2974.00 | 160596.00 |
| 43 | 102390 | Supply of surface base to suit CLS Signal pole 140mm dia with necessary inspection as per specification/ drawing/ description enclosed in this document. | Numbers | 116.00 | 4118.00 | 477688.00 |

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|----|--------|--|---------|----------|----------|------------|
| | | Supply of ladder with platform and shoes to suit CLS pole 4.6m/ 3.6m tall, with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 44 | 102401 | Supply of ladder with platform and shoes for 4.6m CLS pole | Numbers | 62.00 | 3203.00 | 198586.00 |
| 45 | 102402 | Supply of ladder with platform and shoes for 3.6m CLS pole | Numbers | 54.00 | 3089.00 | 166806.00 |
| 46 | 102410 | Supply of post type shunt signal - complete with hood etc., with necessary inspection as per specification/ drawing/ description enclosed in this document. | Numbers | 25.00 | 2860.00 | 71500.00 |
| 47 | 102420 | Supply of Ground type shunt signal - complete with surface base, signal pole, hood etc., with necessary inspection as per specification/ drawing/ description enclosed in this document. | Numbers | 34.00 | 4118.00 | 140012.00 |
| | | Supply of Colour Light Signal Multi Unit type - complete for 4/ 3/ 2 aspect with mounting socket, with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 48 | 102432 | Supply of colour light Signal unit - 3 aspect | Numbers | 50.00 | 10296.00 | 514800.00 |
| 49 | 102433 | Supply of colour light Signal unit - 2 aspect | Numbers | 66.00 | 8580.00 | 566280.00 |
| | | Supply of Junction type route indicator - 5 unit arm - 1/ 2/ 3/ 4/ 5/ 6 way with mounting sockets, with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 50 | 102441 | Supply of Junction type route indicator - 1 way | Numbers | 14.00 | 10868.00 | 152152.00 |
| 51 | 102442 | Supply of Junction type route indicator - 2 way | Numbers | 12.00 | 14300.00 | 171600.00 |
| 52 | 102443 | Supply of Junction type route indicator - 3 way | Numbers | 2.00 | 17732.00 | 35464.00 |
| 53 | 102444 | Supply of Junction type route indicator - 4 way | Numbers | 4.00 | 21164.00 | 84656.00 |
| 54 | 102445 | Supply of Junction type route indicator - 5 way | Numbers | 5.00 | 24596.00 | 122980.00 |
| | | Supply of Calling On Signal / 'A' marker light - complete with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 55 | 102451 | Supply of Calling On Signal | Numbers | 80.00 | 2059.00 | 164720.00 |
| | | Supply of Off-set brackets - large/ small made of cast iron with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 56 | 102461 | Supply of Off-set bracket (large) | Numbers | 30.00 | 2059.00 | 61770.00 |
| 57 | 102462 | Supply of Off-set bracket (small) | Numbers | 28.00 | 1487.00 | 41636.00 |
| | | Supply of PBT terminals 25mm/ 60mm centre and PBT Fuse blocks with necessary inspection as per specification/ drawing/ description enclosed in this document. | | | | |
| 58 | 102491 | Supply of PBT terminal - 25mm centre | Numbers | 32000.00 | 44.00 | 1408000.00 |
| 59 | 102492 | Supply of PBT terminal - 60mm centre | Numbers | 2000.00 | 60.00 | 120000.00 |
| 60 | 102493 | Supply of PBT fuse block (without ND fuse) | Numbers | 2000.00 | 82.00 | 164000.00 |
| | | Supply of apparatus cases (full/ half/ quarter size) to suit Southern Railway standard with necessary inspection as per specification/ drawing/ description enclosed in this document: | | | | |
| 61 | 102511 | Supply of apparatus case - Full size | Numbers | 325.00 | 12012.00 | 3903900.00 |
| 62 | 102512 | Supply of apparatus case - Half size | Numbers | 111.00 | 8580.00 | 952380.00 |

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|----|--------|---|-------------|--------|-----------|------------|
| 63 | 103270 | Supply, erection and wiring of diesel generator set, 10KVA, 230VAC, and single phase - similar to KIRLOSKAR make with CPCB type approved Acoustic enclosure as per the instructions of Railway representative at site. This work includes supply of control panel, exhaust pipe, changeover switch, phase selection switch and provision of interconnections between the DG set, control panel, changeover switch, phase selection switch, and painting. (Diesel generator set with CPCB approved acoustic enclosure, iron clad changeover switches 2 pole 3 position - 63 amps capacity, phase selection switch 4 pole, 2 position - 63 amps capacity, exhaust pipe, asbestos rope, wire PVC 7/1.4mm copper, PVC pipes and bends, clamps and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 6.00 | 253909.00 | 1523454.00 |
| 64 | 103360 | Supply and provision of Rubber mat of not less than 6mm thick and with an insulation to withstand 650VAC, on the floor of relay room etc at places as indicated by railway representative at site. | Square Foot | 360.00 | 78.30 | 28188.00 |
| 65 | 103370 | Provision of signaling arrangement during Non-Interlocked working of Signals and Points, such as erection and wiring of temporary relay racks and wiring of relays, SM's slide instruments, wiring alterations in the cable termination rack, apparatus cases, signals, Control panel etc, as per the instructions of Railway representative at site. (Supply of relay rack, relays, and SM slide instrument is not included in this schedule). [All other miscellaneous materials required for the work shall be supplied by the Contractor]. | Station | 2.00 | 18178.95 | 36357.90 |
| 66 | 103380 | Provision of PA system and Magneto telephone communication at stations/ tents as per the instructions of Railway representative at site. The PA system and magneto telephones will be returned to the contractor after the completion of NI working. Signalling cables available may be used for the communication. (Hiring of PA system equipments and magneto telephones shall be done by the Contractor) [All other miscellaneous materials required for the work shall be supplied by the Contractor]. | Day | 12.00 | 885.00 | 10620.00 |
| 67 | 104120 | Supply and installation of teakwood glass fronted box of size 300mm x 600mm x 75mm with hooks to keep various keys with description engraved on the tags. [TW Glass fronted box of size 300mmx600mmx 75mm with built in lock, hooks, engraved tags and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 14.00 | 4057.00 | 56798.00 |
| 68 | 104140 | Fixing of EKT instrument with (or) without crank handle or on suitable fixtures at station/apparatus case, provision of economiser push switch with locking facility, wiring with wire PVC 16/0.2mm copper, provision of teakwood terminal box covered with decolum along with locking facility and painting. (Supply of electric key transmitter and crank handles is not covered in this schedule). [wire PVC 16/0.2mm copper, wire wound resistance, decolum covered terminal box with locking facility by using 25mm thick teakwood, bolts and nuts, paints, push switches, padlocks and other miscellaneous materials required for this work shall be supplied by the contractor]. | Numbers | 16.00 | 2943.75 | 47100.00 |

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|----|--------|--|----------|--------|----------|----------|
| 69 | 104260 | Supply of 2 pin socket - 5A with switch, fixing the same on the hardwood plank available and extending the 110VAC using wire PVC 3/0.75mm copper, in all the apparatus cases, as per the instructions of Railway representative at site. [2 pin socket - 5A with switch, wire PVC 3/0.75mm copper and all other miscellaneous materials required for the work shall be supplied by the Contractor]. | Numbers | 130.00 | 398.00 | 51740.00 |
| | | Designing of Signalling plan in AUTOCAD 2000 or latest and submission of negatives in 80/90 gsm tracing paper in 'U' size along with 2 copies and also the soft copy in compact disks induplicate. First, 2 sets of prints shall be supplied to Railways for checking. One set will be returned by Railways to the contractor for making corrections in AUTOCAD. The final corrected drawings shall be supplied to Railways on 80/90 gsm tracing paper and 2 CDs. [2 interlocked sidings will be considered equal for one loop line] (Approved permanent way plan will be supplied by Railways). | | | | |
| 70 | 104302 | for stations from 5 to 8 roads | Station | 6.00 | 9269.00 | 55614.00 |
| 71 | 104303 | for stations from beyond 8 roads | Station | 4.00 | 15302.00 | 61208.00 |
| 72 | 105010 | Releasing of existing relay racks/ cable termination racks along with all the terminals, fuse blocks, relays, with jacks, holding clips etc., 50 way boards, terminals, connecting wires, cables etc., carefully without causing any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. After releasing, the floor shall be levelled and cement plastered. {Unit: per Rack} | Per Unit | 30.00 | 1068.75 | 32062.50 |
| 73 | 105020 | Releasing of existing Route Indicators of different types including tail cables, carefully without causing any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. | Numbers | 2.00 | 833.25 | 1666.50 |
| 74 | 105030 | Breaking of concrete and releasing of STOP board/Warning board/ LEGEND boards along with rails, accounting and stacking them neatly at a place as instructed by Railway representative at site. Also the resultant pits shall be re-surfaced and consolidating by ramming and levelling. | Numbers | 8.00 | 854.25 | 6834.00 |
| 75 | 105070 | Releasing of existing apparatus cases (Full/ Half/ Quarter size) without damage after releasing the shelf planks, Terminal blocks, Fuse Blocks, Terminal Boards, Relays of all types EKTs, Secondary Cells, power equipments, 'E' type locks, etc., and breaking the concrete foundation. After releasing, the resultant pits are to be closed and consolidated by ramming and levelling. The released materials shall be accounted and stacked at a place as instructed by Railway representative at site. | Numbers | 50.00 | 1625.25 | 81262.50 |
| 76 | 105080 | Breaking of concrete and releasing the existing cable termination boxes, after releasing the base plank, Terminal blocks, Fuse Blocks, Terminal Boards, cut rails, pipes, etc., closing the resultant pits and consolidating it by ramming and levelling. The released materials shall be accounted and stacked neatly at a place as instructed by Railway representative at site. | Numbers | 12.00 | 1083.75 | 13005.00 |
| 77 | 105090 | Releasing of existing SM's control panel including base plank, and other gadgets connected very carefully without causing any damage to the panel, accounting and stacking them neatly at a place as instructed by Railway representative at site. The resultant pit in the flooring shall be removed of all cable bits, levelled and cement plastered. | Set | 1.00 | 2841.75 | 2841.75 |

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|-----------------|-------------------|---|----------|-----------|--------------|--------------------|
| 78 | 105100 | Dismantling and releasing of existing Colour light Signals complete (upto 4 aspects) with or without Route Indicators, calling on signals, shunt signals etc., carefully without any damage to the gadgets, accounting and stacking them neatly at a place as instructed by Railway representative at site. The work includes breaking the concrete foundation, closing the resultant pit and resurfacing it by ramming and levelling. | Numbers | 8.00 | 1666.50 | 13332.00 |
| 79 | 105110 | Dismantling and releasing of existing Point machines (all types) including ground connections and other accessories available complete without any damage to the gadgets, accounting and stacking them neatly at a place as instructed by Railway representative at site. | Numbers | 12.00 | 1458.75 | 17505.00 |
| 80 | 105130 | Releasing of Secondary cells and battery stands available in the battery room along with connecting strips, wires and terminal boxes carefully without causing any damage to the batteries, accounting and stacking them neatly at a place as instructed by Railway representative at site. After releasing any holes in the walls/ flooring shall be filled with cement mortar and plastered. | Set | 2.00 | 2916.75 | 5833.50 |
| 81 | 105140 | Releasing of existing Block Instruments (all types), Block counters, batteries, block filter, block bell equipment etc., carefully without any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. | Numbers | 4.00 | 958.50 | 3834.00 |
| 82 | 105170 | Releasing of existing ground type shunt signals along with surface base, signal post etc carefully without any damage, accounting and stacking them neatly at a place as instructed by Railway representative at site. The work also includes breaking and removal of concrete foundation and refilling of the resultant pit by ramming and levelling. | Numbers | 8.00 | 1187.25 | 9498.00 |
| 83 | 105180 | Releasing of existing TLD boxes with stumps and terminals after releasing all the bond wires. The released materials shall be accounted and stacked neatly at a place as instructed by Railway representative at site. | Numbers | 80.00 | 86.10 | 6888.00 |
| 84 | 105190 | Releasing of all power equipments including equipment stands, terminal boards, power panel etc., in the power room carefully without causing any damage to the equipments after disconnecting all the supply wires. The released equipments shall be accounted and stacked at a place as instructed by Railway representative at site. After releasing any holes in the walls/ flooring shall be filled with cement mortar and plastered. | Set | 2.00 | 6832.50 | 13665.00 |
| | | Transportation of Signalling materials by road as per the instructions of Railway representative at site. The work also includes loading and unloading of the materials. | | | | |
| 85 | 105212 | Transportation more than 100 Kms. {Unit: per Ton per KM} | Per Unit | 105000.00 | 7.52 | 789600.00 |
| 86 | 105220 | Engaging mechanical excavators like JCB or other machineries for regarding and levelling the formation, dismantling any infringing structures, clearing and removing debris etc., with all leads and lifts etc., complete and as per the instruction of Railway representative at site. | Hour | 300.00 | 650.00 | 195000.00 |
| | | | | | Total | 35501429.40 |
| Schedule | Schedule B-SUPPLY | | | | | |
| Item- 4 | SUPPLY | | | | | |

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| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
|-------|---------|---|---------|----------|-----------|------------|
| 1 | 011010 | Cable termination racks size 880mmX2 Meters made out of 50mmX50mmX6mm thick MS angle POWDER COATED with stainless steel nuts and bolts for fixing the racks with suitable holes for hylem sheet complete as per standard practice with tripod bases and reel insulators. Cable ladder of 400mmx2000mm be provided at both sides with angle size 40mmx4mmx5mm with supporting flat of size 25mmx5mm. | Numbers | 20.00 | 6805.00 | 136100.00 |
| 2 | 011030 | ARA Terminal block 6 Way, 25 mm Centre, made up of PBT as per RDSO Drg.No. SA. 23756/ Adv/Alt.3, confirming to Specification No. IRS.S.75/2006 (Rev.2) or latest. | Numbers | 1250.00 | 315.00 | 393750.00 |
| 3 | 011060 | High Density Polyethylene Pipes (HDPE) of 110 mm Outer Dia, 10 mm Wall Thickness, along with one coupler for every 6 Meters as per specification No. IS 4984: 2016 with latest amendments and Material Grade:PE 80. | Metre | 12000.00 | 675.00 | 8100000.00 |
| 4 | 011070 | High Availability Single Section Digital Axle counter(HA- SSDAC) with Dual Track Sensor Devices as per RDSO specification No. RDSO/SPN/177/2012 version 3.0 or latest (Phase Reversal Type) as per details given below a) Configuration - 2 DP 1 section b) Length of cable required with each track device- 15 mtrs | Set | 7.00 | 941760.00 | 6592320.00 |
| 5 | 011080 | Tool Kit for High Availability Single Section Digital Axle Counter as per Specification No. RDSO/SPN/177/2012 (Version - 3) or latest, consisting of :- (i) Portable Data Analyser (Downloading Event Logger Data for analysis and report generation) - 1 No. (ii) Pure Sine Wave Digital Multi-meter Fluke Make (Model-1871) or Rishab Make (Model-28S) - 1 No. (iii) Extender Card - 1 No. (iv) Dummy Wheel - 1 No. (v) Ring Spanner (17-19, 24-26) - 1 No. each (vi) Open End Spanner (17-19, 24-26) - 1 No. each (vii) Socket Spanner with Handle - 1 No. (viii) Torque Wrench (Jaicom JPR or equivalent 88 NM_ - 1 No. (ix) Screw Driver No. 902 or as directed by Engineer-in-Charge - 1 No. (x) Screw Driver No. 935 or as directed by Engineer-in -Charge - 1 No. (xi) Marking Jig for Drilling - 1 No. (xii) Dummy Load to check Power Supply (Resistive) - 1 No. and any other additional specialized Tools suggested by RDSO Approved OEM required for Trouble Shooting and Maintenance of Equipment | Set | 3.00 | 210264.00 | 630792.00 |
| 6 | 011090 | Basic material to construct Unit Maintenance Free Earth as per RDSO Spec No. RDSO/ SPN/197/2008 or latest and as per relevant Technical specification | Set | 84.00 | 22780.00 | 1913520.00 |
| 7 | 011110 | Supply of 50x6 mm GI Tape for interconnecting earth electrodes | Metre | 170.00 | 499.00 | 84830.00 |
| 8 | 011120 | 35 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting Main Earth Electrode to MEEB in the equipment room. Color: Green | Metre | 1250.00 | 446.00 | 557500.00 |
| 9 | 011130 | 16 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting MEEB to SEEB and SPDs to MEEB. Color: Green | Metre | 800.00 | 199.00 | 159200.00 |
| 10 | 011140 | 10 Sq mm Multi-strand Single Core PVC insulated Copper Cable as per IS: 694 for connecting SEEB to all equipments. Color: Green | Metre | 800.00 | 125.00 | 100000.00 |

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|-----------------|----------------------|--|-------------|------------|--------------|--------------------|
| 11 | 011170 | Earth Leakage detector 12 channel (4 Channels- 110V AC, 2 Channels- 110V DC , 6 Channels- 24V DC) as per RDSO Spec./256/2002 or latest with 6 digit counter. | Numbers | 9.00 | 131287.00 | 1181583.00 |
| 12 | 011190 | AC/DC Digital Clamp meter Current measurement upto 200A AC/DC True RMS measurement for AC voltage & current.(Large jaw opsize of 18mm) Model: FLUKE 362/Rishabh or higher specification. | Numbers | 9.00 | 5922.00 | 53298.00 |
| 13 | 011200 | Steel Almirah (Model : Godrej Store well/slimline 4S) | Numbers | 9.00 | 22719.00 | 204471.00 |
| 14 | 011210 | Step ladder Aluminium made of BATHLA make or better of App. 5 feet height. | Numbers | 9.00 | 9122.00 | 82098.00 |
| 15 | 011230 | Flex printing with Sun board fixing of various drawing with Colour (Power board diagram,Relay index chart,Station Rule Diagram, FTOT Particulars, etc), as per instructions of Site In-Charge Railway Representative. | Square Foot | 1180.00 | 449.00 | 529820.00 |
| 16 | 011240 | Printed and bounded registers including maintainance registers for SSDAC, point machine, track circuit etc. (100 Pages each of 75 gsm paper) | Numbers | 220.00 | 218.00 | 47960.00 |
| 17 | 011280 | Permanently Lubricated High Density Polyethylene Duct (PLB-HDPE), 40/33 mm Dia, along with End Cap, End Plug, Cable Sealing Plug and Couplers, as per RDSO/SPN/TC/45/2013 Rev.2 (upto Amdt.2) or latest | Kilometre | 21.00 | 89106.00 | 1871226.00 |
| 18 | 011290 | Telecom Termination panel with WAGO/Phoenix/Elmex make or similar disconnecting Terminals blocks of size 1500mm x 500mm x 200mm thickness 1.6mm (16 SWG) 150 numbers of disconnecting terminal block with accessories. (The box should be divided in to two compartments 500 mm from TOP with door arrangement including locking, and bottom 1000mm closed fully with screws WAGO/Phoenix/Elmex terminals suitable for cable dimensions maximum of 2.5 sq.mm. Provision of easy and ensuring aesthetics. | Numbers | 8.00 | 45842.00 | 366736.00 |
| 19 | 011300 | 20 pair CT box with Disconnecting terminals of Wago/Phoenix/Elmex make or similar | Numbers | 44.00 | 4145.00 | 182380.00 |
| 20 | 011310 | 10 pair CT box with Disconnecting terminals of Wago/Phoenix/Elmex make or similar | Numbers | 16.00 | 2692.00 | 43072.00 |
| 21 | 011320 | Supply of Joint kit conforming to RDSO specificaiton No.IRS-TC 77/2006 Revision1 or latest for quad cable. | Numbers | 32.00 | 3891.00 | 124512.00 |
| | | | | | Total | 23355168.00 |
| Schedule | Schedule C-EXECUTION | | | | | |
| Item- 5 | EXECUTION | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 021010 | Erection of CT Rack with scaffolding suitably concreting tri-pod bases and reel insulators with "J" bolts and nuts. Tripod and other supporings are to be painted in 2 coats with enamel. | Numbers | 20.00 | 4381.00 | 87620.00 |
| 2 | 021030 | Track crossing by Horizontal Boring Method based on RDSO Report No. BS - 105. This also includes insertion of HDPE Pipe of 110mm Outer dia in the Bore drilled.(Supply of HDPE Pipe is not included). | Metre | 4100.00 | 2264.00 | 9282400.00 |

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|---|--------|---|----------|---------|----------|------------|
| 3 | 021040 | Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in cable termination Rack at relay room. The work includes fixing of all new cables by teakwood clamp on teakwood base plank, fixing of Hylem sheet 10 mm thick for terminal board , varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, painting of particulars on sleeves . After terminations are over, cable entry at the bottom shall be closed with , cement plastered, the inter-space filled with sand upto base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth.(Supply of cable termination racks is not included in this schedule). [All bolts and nuts with washers, Hylum Sheet 10 mm Thick, cement, sand, stone jelly, Teak wood base , paints and all other miscellaneous materials required for the work shall be supplied by the contractor]a. Termination on 25/60mm PBT terminals {Per Unit-Per Terminal} | Per Unit | 7500.00 | 144.00 | 1080000.00 |
| 4 | 021050 | Installation, testing and commissioning of Single Section digital Axle counter (SSDAC) with High Availability. HA-SSDAC to be installed, wired, tested and commissioned by OEM as per guidelines issued by RDSO, wiring discipline should be as per RDSO TAN No. STS/E/TAN/6001 Version 1.0 or latest. The pre-commissioning checklist issued by RDSO for SSDAC to be prepared by OEM and jointly signed by OEM & Railway. Before commissioning of HA-SSDAC, OEM should submit site installation certificate. | Set | 7.00 | 50502.00 | 353514.00 |
| 5 | 021060 | Provision of 2 Machine cut grooves in parallel at a separation of 8 cms each to a depth of 150 mm in the platform surfaced/tiled floor for laying cable. | Metre | 700.00 | 674.00 | 471800.00 |
| 6 | 021070 | Laying of HDPE pipe 110mm Outer Dia, 10mm Thickness along with collars in trenches at places of platform cutting etc., and wherever required as per the instructions of site engineer. | Metre | 4100.00 | 55.00 | 225500.00 |
| 7 | 021080 | Concreting of cable laid in the trench or GI pipe/DWC/HDPE pipe in which cable is already laid to a size of 300*300mm with 1:3:6 mortar. (All the matetrials required for the work should be supplied by the contractor){Per Unit- RMT} | Per Unit | 3400.00 | 495.00 | 1683000.00 |
| 8 | 021090 | Excavation of pit, erection of cable termination boxes on Rails/L-Angles and concreting as per DRG. No. SG/CN/02/8, drilling of suitable holes in the box, fixing of 2 Nos. of GI pipes 32mm dia and 300mm long at the bottom with clamp nuts - 12 mm thick, one at the inner side and another at the outer side for each pipe for cable throughing and one GI pipe 150mm long 32mm dia for drawal of jumper wires for Point machines etc., provision of one EWS lock and painting the boxes inside and outside with one coat of red-oxide and to coats of aluminium paints. CT Boxes, Rails/L-angles of differenet length shall be supplied by Railways. (Cement, sand, stone jelly of size 20/25mm, paint, varnish, GI pipes 32mm dia - 300mm long - 2 Nos and 150mm long - 1 No., clamp nuts -12mm thick - 2 Nos. for each pipe, fixing bolts and nuts with washers, EWS locks and all other miscellanious items required to be supplied by contractor). | Numbers | 86.00 | 5294.00 | 455284.00 |
| 9 | 021100 | Installation of Unit Maintenance Free Earth Pit as per RDSO specification No.RDSO/ SPN/197/ 2008 or latest and as per Technical Specification | Set | 80.00 | 12329.00 | 986320.00 |

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|----|--------|---|----------|--------|----------|------------|
| 10 | 021140 | Installation, Testing/commissioning of Earth Leakage Detector 12 channel . | Numbers | 9.00 | 39526.00 | 355734.00 |
| 11 | 021150 | Transportation, Erection and wiring of IPS to power distribution panel. This includes transportation of IPS batteries from store of Dy CSTE/CN to the site, Erection of IPS panels on teakwood planks, interconnection between panels and wiring the IPS to power distribution panel using 10 sqmm multi-strand copper cable. The wiring should be done neatly using Aluminium ladder with Phynolic sheet (Aluminium ladder, Phynolic sheet of thickness 6 mm, teak wood plank of width 150 mm and thickness 25mm, 10 sqmm multi-strand copper cable and all other miscellaneous materials to be supplied by the contractor). | Numbers | 9.00 | 61450.00 | 553050.00 |
| 12 | 021160 | Transportation of 10/15/20 KVA DG set, including all lifts and leads (Lift and lead shall be done using suitable Hydraulic crane/Fork Lift. The contractor will be responsible for the safe transshipment of the DG set without causing any damages during transportation). Transportation of the DG sets (4 nos) over a distance of 80 to 150kms | Per Trip | 3.00 | 17524.00 | 52572.00 |
| 13 | 021180 | Excavation of pit, casting concrete foundations as per Drg No.SG/Proj/SK/DG/01/08 for installation of DG set as per the direction of Site In-charge Railway Representative and Carry out 1st service of the DG set as per the Manufacturer's instructions. | Numbers | 6.00 | 18117.00 | 108702.00 |
| 14 | 021190 | Releasing of Diesel Generators in the existing room along with all other gadgets without causing any damages. | Numbers | 1.00 | 7788.00 | 7788.00 |
| 15 | 021200 | Strengthening of foundations of signals, Full/Half location boxes, by carrying out the earth work around the foundation, ramming of the earth, carrying out masonry work from bottom of earth work using country stones and cement masonry to prevent the earth from slipping down the bank. | Numbers | 320.00 | 4636.00 | 1483520.00 |
| 16 | 021230 | Fixing of 'Telecom Termination Panel' and termination of cables on Wago/krone connectors as per the instructions of the site Engineer. | Numbers | 7.00 | 5110.00 | 35770.00 |
| 17 | 021240 | Fixing of 20 pair CT box with disconnecting terminals of wago/phonix/elmex make or similar and termination of cable at the station/LC gates etc. This includes fixing of Quad/PIJF cables and CT box on the wall. | Numbers | 44.00 | 3067.00 | 134948.00 |
| 18 | 021250 | Fixing of 10 pair CT box with disconnecting terminals of wago/phonix/elmex make or similar and termination of cable at the station/LC gates etc. This includes fixing of Quad/PIJF cables and CT box on the wall. | Numbers | 16.00 | 2677.00 | 42832.00 |
| 19 | 021260 | Provision of normal joint of Heat Shrinkable type complete for 6 quad cable. After the jointing the through cable has to be tested for insulation resistance and loop resistance in presents of Railway Engineer and in case of any defects the jointing has to be done at free of cost by the contractor. [Heat Shrinkable jointing kit conforming to RDSO specificaiton No.IRS-TC 77/2006 covered in the supply portion has to be used for this purpose. The Contractor should supply all other small items free of cost which are required for making a joint. Only gas blower to be used for blowing | Numbers | 32.00 | 3553.00 | 113696.00 |
| 20 | 021270 | Provision of One skilled and One unskilled staff round the clock to attend to teething trouble of the installation along with SSE/JE(Sig) after the installation has been brought into commissioning.The work includes routine maintainence,failure restoration as per the direction of the SSE/JE(Sig). | Month | 21.00 | 70094.00 | 1471974.00 |

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|-----------------|----------------------------------|---|-------------|------------|--------------|--------------------|
| 21 | 021290 | Provision of Security Guards round the clock in 12 hours shift beat from Up Home Signal to Down Home Signal to avoid theft of signalling assets.{Per Unit- Per 12 Hours shift} | Per Unit | 2520.00 | 657.00 | 1655640.00 |
| 22 | 021300 | Providing services of helping hand man power to carry out miscellaneous/sundry works in the office/field between 08.00 hrs and 20.00 hrs of the day and accompanying Railway staff with all expenses of transportation, accomodation, food, consumables etc., with all ascents/descents, taxes, octroi, cess, fees, duties, with contractors tools and plants, materials, consumables, labour, crew, machineries with all lead and lift etc., complete as per special conditions, specification, regulation and as directed by Railway Engineer-in-charge. | Man-Days | 450.00 | 498.00 | 224100.00 |
| | | | | | Total | 20865764.00 |
| Schedule | Schedule D-SUPPLY & INSTALLATION | | | | | |
| Item- 6 | SUPPLY & INSTALLATION | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 031010 | Preparation of Cable Route Plan, Cable Core Plan, Cable Termination Rack Particulars, Location Box Particulars, Power Supply Diagram, Track Circuit Bonding Diagram and/or any other drawing on Auto-CAD in A2/A3/ A4, etc. size (as per instructions of Engineer in-charge). Initially Contractor shall submit 2 sets of 'AS PLANNED' documents complete for approval of Railways. One set is returned either duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by railways. After preliminary approval, execution of work shall be carried out at site. After Completion of work, 2 sets of 'AS MADE' Check Prints are submitted for Administarative approval. Railways will return one set to the contractor duly approved with alterations/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respect along with its soft copies in USB Pen Drive and 6 sets of final completion drawings in properly bound booklets. [For Centralized Electronic Interlocking Stations/Small Stations] | Station | 7.00 | 98035.00 | 686245.00 |
| 2 | 031020 | Supply and Provision of Power Supply Change over arrangement at SM room. CLS panel of size 800x500x275mm powerd coated of MS sheet thickness 1.6mm as per RDSO specification No TI/SPC/PSI/CLC/0020 . | Numbers | 7.00 | 58338.00 | 408366.00 |
| 3 | 031030 | Manufacture and Supply of Power Distribution Panel for IPS using Hylem sheet 10 mm as per site requirement and erecting it using MS angle clamp 65mm X 65mm X 8mm, HRC fuse block, Mains control switch, ammeter by-pass switch, voltmeter, ammeter, PBT terminals 60mm and wiring the same using wire PVC 7/1.40mm as per approved power diagram. This also includes termination of power cables using teakwood clamp of size 25mm X 60mm X 150mm on a base plank of 25mm thick 150mm width. (MS angles 65mm X 65mm X 8mm, Hylem sheet of 10 mm Thickness, as per site requirement, bolt and nuts required for manufacture of power panel, HRC fuses, box and carriers, teak wood clamp, wire 7/1.40mm, PVC casing and capping and all other miscellenous materials will be supplied by the contractor, Supply of PBT terminals 60mm is not included in the schedule.) | Numbers | 9.00 | 48844.00 | 439596.00 |

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|-----------------|------------------|---|-------------|------------|--------------|--------------------|
| 4 | 031040 | Supply, Installation, Testing and Commissioning of Copper Plate Earthing System complete with provision of (i) Copper plate 300mm X 300mm X 3 mm, (ii) Earth Pit 6 ft depth filled up with charcoal 10 kg & salt 25 kg in alternate layers up to 2 ft from bottom, (iii) Water funnel on Perforated GI pipe of length 4.5 ft., (iv) Cast Iron top plate 12" x 12" (v) Drawing of copper - earth from earth to location with 25 mm x 3 mm copper strip for termination(all miscellaneous materials to be supplied by the contractor) | Numbers | 315.00 | 20031.00 | 6309765.00 |
| 5 | 031050 | Supply and fixing of retro-reflective type Goods Warning Boards as per practice & SEM(Angle/Rail is to be supplied by Railway). | Numbers | 16.00 | 7873.00 | 125968.00 |
| 6 | 031060 | Supply and fixing of retro-reflective type Calling-On/STOP/BSLB/Legend boards as per practice & SEM (Angle/Rail is to be supplied by Railway). | Numbers | 50.00 | 6192.00 | 309600.00 |
| 7 | 031090 | Supply and Placing of Polyolefin Cable channel of size, Width 240/340 mm, Height 155/230 internal/external, length 1 m produced of polyolefin with Fire protection class k-1 in accordance with DIN-53438 Part II for laying Signalling/Telecom cables, channel attachable to each other with male-female swallow tail connectors and having suitable detachable cover | Metre | 5600.00 | 2521.00 | 14117600.00 |
| 8 | 031100 | Supply and Placing of Trunking and Capping (RCC Duct) of 500mm Width as per Drg. No. SDO/Cable laying/ 007 (Annexure-10), as detailed in document No. RDSO/SI/G/2010 Ver.1.1 or latest on 'Guidelines on signalling cable laying' | Numbers | 14900.00 | 1278.00 | 19042200.00 |
| 9 | 031110 | "Supply and laying of Split DWC pipe of 120/103 mm dia, 2 meter long in already dug cable trenches. The unit of RMT means two split pipes of 1 Mtr each. Material shall be supplied as per specification RDSO/SPN/204/2011 or latest" {Per Unit-RMT} | Per Unit | 8000.00 | 284.00 | 2272000.00 |
| 10 | 031130 | Supply and Installation of Pre-wired Crank Handle Cum Key Lock Relay Box (of MS Sheet) along with LEDs, with approved type push buttons, Wago or similar Disconnecting type Terminal Blocks including DIN rail etc., as per tentative drawing enclosed. Installation, fixing and wiring of boxes for Key Lock Relays to be carried with Contractor's wiring and fixing material. The work shall be carried as per the instructions of site engineer. | Numbers | 6.00 | 34673.00 | 208038.00 |
| 11 | 031140 | Supply and installation of De-ioniser plant (Aqua-Ion Model No. ACAMB 4 Bed Type). | Numbers | 2.00 | 43374.00 | 86748.00 |
| 12 | 031150 | Supply and Fixing of PVC casing and capping/PVC pipe of minimum 25 mm size or higher as per requirement at site on the wall/floor etc., using bends, coupler and T joints and flexible pipe wherever necessary with fixture in the OFC room from equipment rack to common termination and from OFC room to SM room/Reservation office /Data logger/FOIS room etc. (All required material for fixing to be arranged by the contractor) | Metre | 240.00 | 53.00 | 12720.00 |
| | | | | | Total | 44018846.00 |
| Schedule | Schedule F-UFSBI | | | | | |
| Item- 1 | UFSBI | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 051010 | Universal Fail Safe Block Interface (UFSBI) complete and Block panel for Single line operation as per RDSO Spec. No. IRS:S-105/2012 (Per Unit=Set Per Block Section) | Per Unit | 2.00 | 1001105.00 | 2002210.00 |

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|---------------------------|----------------------|--|-------------|------------|--------------|-------------------|
| 2 | 051040 | Automatic Media changeover of modems working on redundant channels for data transmission on OFC/Quad. | Pair | 2.00 | 31360.00 | 62720.00 |
| 3 | 051050 | MODEM compatible with existing UFSBI system (for use with secondary/backup media i.e 4-wire OFC VF Channel form station Primary mux or UFSBI E1 modem) | Pair | 2.00 | 53024.00 | 106048.00 |
| 4 | 051060 | Supply of Industrail Grade E1 Modem for UFSBI with 8 nos. E&M VF channels suitable for connecting UFSBI block along with UP&DN Line HA-SSDAC. Compatable with 48V DC power supply. | Numbers | 4.00 | 106312.00 | 425248.00 |
| 5 | 051090 | Supply of V.F. and Signaling Transformers as per RDSO spec No. IRS-TC-22/76 or latest | Numbers | 12.00 | 964.00 | 11568.00 |
| SPARES FOR UFSBI | | | | | | |
| 6 | 051101 | Supply of CPU card suitable to work with UFSBI (as per IRS:S-104/2012) | Numbers | 2.00 | 28563.00 | 57126.00 |
| 7 | 051102 | Supply of CCC card suitable to work with UFSBI (as per IRS:S-104/2012) | Numbers | 2.00 | 24130.00 | 48260.00 |
| 8 | 051103 | Supply of OUTPUT card suitable to work with UFSBI (as per IRS:S-104/2012) | Numbers | 2.00 | 28556.00 | 57112.00 |
| 9 | 051104 | Supply of INPUT card to work with UFSBI (as per IRS:S-104/2012) | Numbers | 2.00 | 11770.00 | 23540.00 |
| 10 | 051105 | Supply of Hot-Standby DC-DC Converter type Power Supply to work with UFSBI (as per IRS:S-104/2012) | Numbers | 2.00 | 44102.00 | 88204.00 |
| 11 | 051106 | Supply of Automatic Media changeover of modems working on redundant channels for data transmission on OFC/Quad to work with UFSBI (as per IRS:S-104/2012) | Pair | 2.00 | 31360.00 | 62720.00 |
| 12 | 051107 | Supply of MODEM unit suitable to work with UFSBI (as per IRS:S-104/2012) | Pair | 2.00 | 53024.00 | 106048.00 |
| 13 | 051108 | Supply of Industrail Grade E1 Modem for UFSBI with 8 nos. E&M VF channels suitable for connecting UFSBI block along with UP&DN Line HA-SSDAC. Compatable with 48V DC power supply. | Numbers | 2.00 | 106312.00 | 212624.00 |
| 14 | 051111 | Reset Box as per IRS:S-104/2012 | Numbers | 2.00 | 12293.00 | 24586.00 |
| UFSBI Installation | | | | | | |
| 15 | 051121 | Installation, testing and commissioning of UFSBI complete and Block panel for Single line/Double line operation as per RDSO Spec. No. IRS:S-105/2012. [All misc items required for comissioning shall be supplied by contractor] (Per Unit=Set Per Block Section) | Per Unit | 2.00 | 70224.00 | 140448.00 |
| 16 | 051123 | Installation, testing and commissioning of Automatic Media changeover and modems working on redundant channels for data transmission on OFC/Quad. This included installation & configuration of Industrial grade modem, wraping of E1 connections etc.(Per Unit=Set Per Block Section) | Per Unit | 2.00 | 20936.00 | 41872.00 |
| | | | | | Total | 3470334.00 |
| Schedule | Schedule A1-TELE SOR | | | | | |
| Item- 2 | TELE SOR | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|-----------------|-------------------------|---|-------------|------------|--------------|------------------|
| 1 | 111010 | Excavation of jointing pit without damaging the fiber and provision of joint chamber of 1.2 mtr dia , 60 Cm height and 50 mm thickness with two piece top cover and bottom cover with holes for drainage and cable entry (The reinforcement drawing enclosed). This includes backfilling and ramming of the trench after placing the joint closure and cable loop in the chamber without causing any damage to the same and consolidation of soil as well as disposal of soil as per plan and as advised by RailTel Representative. | Numbers | 10.00 | 3154.00 | 31540.00 |
| 2 | 111200 | Supply, transport and filling of the RCC joint chambers with dry sand mixed with anti-termite chemical as required in specification up to 400mm height and the cover is refixed in position. | Numbers | 10.00 | 600.00 | 6000.00 |
| 3 | 111240 | Supply & Provision of Mid-Section OFC Joint including Splicing (24 Fibre) inside already prepared jointing pit. This does not include provision of Joint chamber, top plate & back filling. The joint Enclosure shall be as recommended in the Technical specification. | Numbers | 10.00 | 10302.00 | 103020.00 |
| | | | | | Total | 140560.00 |
| Schedule | Schedule A2-RE SOR TELE | | | | | |
| Item- 3 | RE SOR TELE | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 021270 | Blowing / drawing of OFC cable in the HDPE pipe duct and in protective works already provided. | Kilometre | 15.00 | 8256.00 | 123840.00 |
| | | | | | Total | 123840.00 |

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 | Financial Eligibility Criteria: The Tenderer shall be eligible only if he fulfills the following Standard Financial Eligibility Criteria FOR WORKS COSTING ABOVE Rs.50.00 LAKHS: Client certificate from other than The tenderer must have minimum average annual contractual turnover of V OR V/N crores 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. Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India. No Technical and Financial credentials are required for tenders having value up to Rs.50 lakh. For tenders costing more than Rs.20 crore, eligibility criteria include bid capacity also as specified in clause 10.3 of IRSGCC- April2022 - PART I - "Regulations for Tenders and Contracts - For the Guidance of Engineers & Contractors for Works Contracts." The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI. The tenderer will be qualified only if it's available bid capacity is equal to or more than the total bid value of the present tender | No | No | Allowed (Mandatory) |
| 1.1 | BID CAPACITY: Bid Capacity shall be governed in terms of clause 10.3 of IRSGCC 2022. The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of IRSGCC 2022. The Bid Capacity is applicable for works costing more than Rs.20Crores and details regarding Bid Capacity shall be submitted along with the tender in Proforma-2 duly verified and certified by the Chartered Accountant. | No | No | Allowed (Mandatory) |

Standard Technical Criteria

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

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|-----|---|----|----|---------------------|
| 1 | <p>A) Technical eligibility criteria for non-composite works costing above Rs.50.00 lakhs As per clause 10.1(a) of IRGCC-2022(part-1) :. (a)The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: 1.Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, Or 2.Two similar works each costing not less than the amount equal to 40% of advertised value of the tender or 3.One similar work each costing not less than the amount equal to 60% of advertised value of the tender B) Technical eligibility for composite tender: 1.Each component of value more than 2 Crs shall be taken for evaluation of technical eligibility as per 10.1(b) of IRSGCC-2022. 2.In case single completion certificate containing more than one component is submitted by the tenderer, value of each component is to be specified in that completion certificate. Separate completed works of minimum required values for each component shall also be considered for fulfillment of technical eligibility criteria 3.In case tenderer fails to submit completion certificate with component wise value bifurcation of work for evaluation of technical eligibility, the certificate shall be treated Incomplete and invalid and shall not be considered for evaluation of technical eligibility. 4.Technical eligibility shall be fulfilled by tenderer or any member having minimum 26% share in case of JV as per clause 10.1.(b) (i) of IRSGCC-2022 (Part- I) and 17.15.1(b) of IRSGCC-2022 (Part- I) for the component/components of value of more than 50% of tender value or by Sub- contractor as per clause 7(a)(ii) of GCC (Part-II) for the other component/ components of value less than 50% of tender value. Each other member of JV shall have technical capacity of minimum 10% of advertised value of any component. 5.If the Tenderer proposes to sub-contract any component/components as per item 4 above , which is less than 50% of tender value, then a formal agreement duly notarized, legally enforceable in the court of law, shall be executed by the sub-contractor(s) and shall be submitted along with the offer for considering subletting of that scope of work towards fulfillment of technical eligibility as per clause 7(a)(ii) of Part II of IRSGCC 2022. 6.For component less than Rs 2 Cr, technical Eligibility will not be considered in tender evaluation and the documents of sub-contractor need not be submitted along with tender. 7.The contractor will engage an eligible sub- contractor after award of contract with the approval of Chief Engineer in writing subject to complying clause 7 of Part II of IRSGCC 2022 . Note: Tenderers may see Explanation for Para 10 of the Tender Form (Second Sheet) including Para 10.1 to 10.5 - Eligibility Criteria of IRSGCC-2022.</p> | No | No | Allowed (Mandatory) |
| 1.1 | <p>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 closing 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. The work executed by the tenderer for any Govt. /Govt.bodies/PSUs and public listed company shall only be considered for fulfilling of Technical Eligibility Criteria. 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.</p> | No | No | Allowed (Optional) |
| 1.2 | <p>Defination of Similar Work :- Execution of signaling works Electronic Interlocking/Route Relay Interlocking/Panel Interlocking/Auto Block Sig/IBS/IBH either Indoor or Outdoor or both. Note : For EI, after LOA is issued (but before supply of EI equipment) MOU with RDSO approved OEM for supply of EI hardware & software, installation, testing and commissioning of EI ., shall be submitted (including after sales support till warranty period)</p> | 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. |
| 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 www.ireps.gov.in . 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. |

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|----|---|
| 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 | Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. 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. (Click here 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.

Check Lst

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Uploading of Scanned copy/copies of proof (s) of Technically Eligibility Criteria as mentioned in Standard Technical Criteria (asperProforma-1). | No | No | Not Allowed |
| 2 | Uploading of Scanned copy/copies of proof(s) of Financial Eligibility Criteria as mentioned in Standard Financial Criteria (as per Proforma - 2 A & relevant documents) | No | No | Not Allowed |
| 3 | Uploading of Scanned copy of Bid Capacity (as per Proforma - 2), and in terms of clause No. 10.3 and 10.5 of IRGCC-2022 (if applicable) | No | No | Not Allowed |
| 4 | Uploading of Scanned copy of Certificate as per the format for Certificate linked under heading Submission of Certificate. | No | No | Not Allowed |
| 5 | Uploading of required documents in case of Individual/Proprietary Firm/Concern (or) Partnership Firm (or) Company (or) LLP Firm (or) Registered Society & Registered Trust (or)Joint Venture Firm (or) HUF etc., as mentioned in Commercial Compliance (whichever is applicable). | No | No | Not Allowed |
| 6 | Uploading of Scanned copy of List of Machinery, Tools & Plants (as per Proforma - 3) | No | No | Not Allowed |
| 7 | Uploading of Scanned copy of Statement of Bank details, PAN & GST (as per Proforma - 5) | No | No | Not Allowed |
| 8 | Uploading of Scanned copy of the declaration regarding employment of Retired Engineer / Retired Railway Officer (as per Proforma - 6) | No | No | Not Allowed |
| 9 | Uploading a scanned copy of the Memorandum of Understanding in the case of a JV firm (as per Proforma - 7) | No | No | Not Allowed |
| 10 | Uploading of request for grant of Mobilisation Advance (as per Proforma-8), if applicable. | No | No | Not Allowed |
| 11 | Uploading of Proforma for Self-Certificate in regard to meeting the Minimum Local Content requirements as per Make in India Policy for Procurement Order Value less than of Rs.10 Crores. (as per Clause - 45(a) of Special Conditions of Contract)(as per Proforma-9) | No | No | Not Allowed |

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| 12 | Uploading of Proforma of Certificate on percentage of Local Content as per Make in India Policy for Procurement Order Value more than Rs.10 Crores. (as per clause - 45(b) of Special Conditions of Contract)(as per Proforma-10) | No | No | Not Allowed |
| 13 | Uploading of Method Statement, if applicable. | No | No | Not Allowed |

Commercial-Compliance

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | 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) |
| 2 | Any other document required for evaluation of his/their bid as deemed fit by the tenderer. | Yes | Yes | Allowed (Optional) |
| 3 | Scanned copy of Statement of Bank details, PAN&GST(as per Proforma- 5). | Yes | Yes | Not Allowed |
| 3.1 | Scanned copy of Statement of Bank details | Yes | Yes | Allowed (Mandatory) |
| 3.2 | Scanned copy of PAN Card | Yes | Yes | Allowed (Mandatory) |
| 3.3 | Scanned copy of GST Registration Certificate | Yes | Yes | Allowed (Mandatory) |
| 4 | Request for Mobilisation Advance if applicable (as per Proforma-8). | Yes | Yes | Allowed (Optional) |
| 5 | Proforma 9 for self-Certificate in regard to meeting the Minimum Local Content requirements as per Make in India Policy for Procurement Order Value less than of Rs.10 Crores. | Yes | Yes | Allowed (Optional) |
| 6 | Proforma-10 of Certificate on percentage of Local Content as per Make in India Policy for Procurement Order Value more than Rs.10 Crores. | Yes | Yes | Allowed (Optional) |
| 7 | Uploading of Scanned copy/copies of formal agreement duly executed and notarised by the main tenderer/contractor with the subcontractor for the component(s) of work in a composite work proposed to be executed through subcontractor(s). | No | No | Allowed (Optional) |
| 8 | In case of Proprietary Firm / Proprietary Concern, the tenderers shall scan and submit with his offer (i)An undertaking that he is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (ii)All other documents in terms of explanatory notes in clause 10 of IRSGCC - April -2022-Part-I. (iii)All other documents as per Clause 14 of IRSGCC -April -2022- Part-1. | Yes | Yes | Allowed (Optional) |
| 9 | In case of Partnership Firm, the tenderer(s) shall scan and submit with their offer, the following documents: (i)A notarized copy of partnership deed or a copy of partnership deed registered with registrar. (ii)A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract (iv)Other documents as mentioned in terms of cpara 10 tender form (2nd sheet) of IRSGCC April-2022-Part I. (v) All other documents as per Clause 14 and Clause 18 of IRSGCC -April -2022- Part 1. | Yes | Yes | Allowed (Optional) |

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| 10 | In case, the Tenderer is a Company, the tenderer(s) shall scan and submit with their offer, the following documents: (i)The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii)A copy of Certificate of Incorporation (iii)A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv)An undertaking that the Company is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which the Company was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (v)All other documents in terms of 10 of tender form (2nd Sheet) of IRSGCC - 2022 (vi) All other documents as per Clause 14of IRSGCC -April -2022- Part 1. | Yes | Yes | Allowed (Optional) |
| 11 | In case, the Tenderer is a JV Firm, the tenderer(s) shall scan and submit with their offer the following documents: In case one or more of the members of the JV is/are (A)Partnership firm(s), following documents shall be submitted: (i)A notarized copy of the Partnership DeedorCopy of partnership deed registered with registrar, (ii)A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, (iii)A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm.(iv)An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. In case one or more members is/are (B) HUF, the following documents shall be enclosed: (i) A copy of notarized affidavit on Stamp Paper declaring that his concern is a proprietary concern and he is sole proprietor of the concern or he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. In case one or more members of the JV is/are (C)Companies, the following documents shall be submitted: (i)A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, (ii)The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (iii)A copy of Certificate of Incorporation (iv)A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company. In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted: (i)A copy of LLP Agreement (ii)A copy of Certificate of Incorporation of LLP(iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement.(iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP. (v)An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders/ contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the contract liable for determination underClause 62 of the Standard General Conditions of Contract. | Yes | Yes | Allowed (Optional) |
| 12 | In case, the Tenderer is a JV Firm (Continued from above), (E)In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted: (i)A copy of Certificate of Registration (ii)A copy of Memorandum of Association of Society/Trust Deed A copy of Rules & Regulations of the Society (iii) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.(F)Other documents as mentioned in terms of para 10of Tender form(2nd sheet) of IRSGCC-April-2022 Part-I. (G)All other documents as per Clause 14 , 17 & 18 of IRSGCC-April2022 -Part 1 are to be submitted. | No | No | Allowed (Optional) |

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| 13 | In case the Tenderer is HUF, the following documents shall be submitted along with the tender: (i)A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii)An undertaking that the HUF is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (iii)All other documents in terms of Para 10 of Tender form (2nd sheet) of IRS GCC April 2022. (iv) All other documents as per Clause 14 of IRSGCC -April-2022- Part 1. | No | No | Allowed (Optional) |
| 14 | In case tenderer is a LLP Firm registered under LLP Act-2008, the following documents shall be submitted: (i)A copy of LLP Agreement (ii)A copy of Certificate of Incorporation (iii)A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract (v)All other documents in terms of Para 10 of Tender form(2nd sheet) of IRSGCC- April-2022 Part-I. (vi) All other documents as per Clause 14 of IRSGCC -April -2022- Part 1. | No | No | Allowed (Optional) |
| 15 | In case the Tenderer is a Registered Society & Registered Trust, the following documents shall be submitted: (i)A copy of the Certificate of Registration (ii)A copy of Memorandum of Association of Society / Trust Deed. (iii)A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) Copy of rules and regulations of the society. (v) All other documents in terms Para 10 of Tender form(2nd sheet) of IRSGCC- April-2022 Part-I. (v) All other documents as per Clause 14 of IRSGCC -April -2022- Part 1. | No | No | Allowed (Optional) |
| 16 | The tenderer whether sole proprietor/Company or a partnership firm/JV venture (JV) / Registered Society / Registered Trust/HUF etc., if they want to act through agent or individual(s), should submit along with tender, a copy of Power of attorney duly stamped and authenticated by a notary public or by magistrate in favour of specific person whether he/they be partner(s) of the firm or any other person agreement, receive money, co-ordinate measurement through contractors authorized engineer, witnessed measurement, sign measurements books, compromise, settle, relinquish any claim(s) preferred by the firm and sign " No Claim Certificate" and refer all or any disputes to arbitration the above power of attorney shall be submitted even if such specific person is authorized for above purpose through partnership deed/memorandum of understanding/Article of Association or such other document, failing which, tender is liable to be rejected. | No | No | Allowed (Optional) |
| 17 | An undertaking that bidder is not blacklisted or debarred by railways or any other Ministry /Department of Government of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was/ is a partner/member. Concealment /wrong information in regard to above shall make the contract liable for determination under clause 62 of the General conditions of the contract. | No | No | Allowed (Mandatory) |

General Instructions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Tenderers are advised to read the instructions contained in the User Manual for Contractors for IREPS (Works Module) available in the learning centre in website www.ireps.gov.in before preparation of Bid Online. | No | No | Not Allowed |

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| 2 | (a)The Tender Document on IREPS(Works Module) is having Nine (9) Parts viz., 1. NIT Header 2. Schedule 3. Items break-up 4. Eligibility Conditions 5. Compliance (Check List, Commercial, Technical) 6. General Instructions 7. Special Conditions 8. Under takings 9. Documents attached with Tender (b) Documents attached with this tender are listed under Part 9 of Tender Document shall form part of the complete Tender Document/Contract Document for the tendered work. Tenderers are advised to read carefully all conditions contained in the a fores aid documents before preparing their bid. (c) To submit bid on line, the Tenderer shall navigate different tabs such as Eligibility Conditions, Compliance Conditions, General Instructions, Special Conditions, Technical/ Commercial Compliance Conditions, Undertakings, Checklists and other miscellaneous conditions included by the Railway in the tender document. It is also indicated against each condition whether the bidder is required to confirm whether he complies or not with the requirements of the condition (by clicking on the yes/no buttons), whether the bidder is allowed to enter his comments/remarks against the clause, and whether documents uploading against the condition is Allowed (Mandatory), Allowed (Optional) or Not Allowed. The tenderers are advised to read all the instructions/conditions contained in such documents carefully, before submitting their bid on line. | No | No | Not Allowed |
| 3 | The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure- VIA and shall be valid for a period of 90days beyond the bid validity period. Tenderers may refer Para 5 of IRSGCC -2022 -Part-1 for other details in regard to payment of bid security. | No | No | Not Allowed |
| 4 | BID security of those tenderers will be forfeited who resale from their offers within the validity period of the tender. | No | No | Not Allowed |
| 5 | Joint Venture is applicable for tenders valuing more than Rs.10.00Cr. only. | No | No | Not Allowed |
| 6 | Tenderers are advised to submits scanned copies of all documents including notarized documents. The responsibility of submitting the correct documents lies with the tenderer. Tenderers may ensure that all scanned and uploaded documents are readable and that there are no errors/omissions/discrepancies/over-writings anywhere in such documents before submitting online. Railway will not be responsible for any incomplete/erroneous documents uploaded. | No | No | Not Allowed |
| 7 | The tenderer shall not add any condition(s) on their own anywhere in their offer including documents uploaded with the offer. Any such conditions if stated and if are in violation of the Railways Tender conditions, may lead to summary rejection of the offer. Railway reserves the right to reject such offers summarily without assigning any reasons whatsoever. | No | No | Not Allowed |
| 8 | No post tender correspondence will be permitted and the tender shall be decided based on the documents submitted / attached with the offer only. However, Railway reserves the right to verify/seek for any clarification on the documents/credentials already submitted by the tenderer along with the offer. | No | No | Not Allowed |
| 9 | Railway reserves the right to verify/seek clarification from authority/professional who has issued Certificate towards Technical/Financial eligibility of the tenderer. | No | No | Not Allowed |
| 10 | Railway reserves the right to cancel the tender without assigning any reason thereof. | No | No | Not Allowed |
| 11 | Railways reserve the right to reject any or all offers without assigning any reason thereof. | No | No | Not Allowed |
| 11.1 | Certificate as per the format linked under heading Submission of Certificate shall be scanned and submitted/attached with the offer. Failure to submit/attach the certificate with the offer shall render offer incomplete and such offer will be rejected summarily | No | No | Not Allowed |
| 12 | If the Tenderer(s) deliberately give(s) wrong information in tender or create(s) circumstance for the acceptance of tender, Railway shall without prejudice to any other right or remedy, shall reject such offer at any stage and forfeit the amount deposited as Bid Security besides suspending the business for a minimum period of five years. | No | No | Not Allowed |
| 13 | Even for the working contractors of this Railway, the onus of establishing the credentials of the tenderers from the office records or otherwise does not lie with the Railway. Railway shall evaluate the offer only from the certificates/documents which are submitted/attached with the offer. | No | No | Not Allowed |

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| 14 | The Tenderer (s) shall keep the offer open for a minimum period of 60 days in the case of Single Packet system of tendering and 90 days in the case of Two Packet system of tendering from the date of closing of the tender. | No | No | Not Allowed |
| 15 | If eligible L-1 tenderer resiles/withdraws offer after closing of the tender such tenderer shall be debarred from participation in the tender for this work and Bid Security shall be forfeited. | No | No | Not Allowed |
| 16 | The General Conditions of Contract governing the performance of the works covered by this tender are the Indian Railway Standard General Conditions of Contract [IRSGCC]-April-2022 as amended from time to time up to date. A soft copy of the Indian Railway Standard General conditions of Contract is given as attached documents to the tender for reference. The tenderer(s) is/are deemed to have fully read, understood and agreed all the provisions of the IRS General conditions of Contract including all corrections and Amendments issued up to date while submission of offer and any claim that the tenderer (s) is/are not aware of same shall not be entertained. | No | No | Not Allowed |
| 17 | Any queries can be mailed to dycsteddbnc@gmail.com sufficiently well in advance of the date of closing of the tender and not later than ten days before the date of closing of the tender. The queries may be replied depending upon the reasonableness of the query and availability of time. | No | No | Not Allowed |
| 18 | The decision of the Railway regarding the corrections/suitability of the certificates is final and binding on the tenderer. The tenderer shall not have any claim whatsoever in this regard. | No | No | Not Allowed |
| 19 | Unreleased Bid Security, if any, held with the Railway Administration shall not be adjusted towards the Bid Security to be remitted online for the present tender. | No | No | Not Allowed |
| 20 | The tenderers are advised to visit the site of work in their own interest and acquaint themselves with the site conditions and expected quantum of work. The rate should be quoted duly considering the site conditions .The tenderer shall not have any claim later what so ever in this regard. | No | No | Not Allowed |
| 21 | Refund of Bid security - (a) In Single Packet System, the Bid Security of the unsuccessful tenderers will be returned on finalization/award of tender. (b) In case of Two Packet System, the Bid Security of the tenderers who do not get shortlisted on evaluation of technical bid will be returned by Railways. The price bids of shortlisted tenderers will be further evaluated for consideration and award of work and there after Bid Security of unsuccessful tenderers will be returned. | No | No | Not Allowed |
| 22 | In case the tenderer is a JV Firm, the bid can be submitted online either by the JV Firm itself, if the JV Firm already exists (duly registered already before the Registrar of the Companies under Companies Actor before the Registrar/Sub-Registrar under the Registration Act,1908) by using Digital Signature of JV Firm or alternatively, the bid can also be submitted by one of the members authorized by the JV Firm to deal with the tender using the Digital Signature of such authorized member. In such cases, the JV Firm shall mention this in the MOU. | No | No | Not Allowed |
| 23 | Corrigendum Notice: For the purpose of Corrigendum in the tender, the Notice Inviting Tender (NIT) period is split as under: (a) Advertisement period: Time during which all information pertaining to tender shall be available but offers cannot be submitted. (b) Offer submission period: Fifteen days prior to opening of tender during which tenderers can submit their offers. Issue of corrigendum will be done only during Advertisement period. No corrigendum will be issued during offer submission period. However, the tenderers may note that for cases requiring corrigendum during offer submission period, the tender under the said Tender Notice may be cancelled at the discretion of Railways and shall be re-tendered. | No | No | Not Allowed |
| 24 | Mobilization Advance is applicable for advertised Tender value of more than Rs.25.00 Crore. Tenderers may read the terms and conditions for grant of such Mobilization Advance given in the Tender Document. The rate of interest will be as notified by Railway Board in advance of each financial year and will be applicable for tenders opened in that financial year. Tenderers may submit their request for grant of Mobilization Advance in Proforma 9 attached with Tender Document. | No | No | Not Allowed |

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| 25 | An Proprietor / Partnership Firm / Limited Company /JV Firm/HUF/LLP Firm / Registered Society& Registered Trust can submit only one offer either in his/their individual capacity or as a Proprietor or as a partner of Partnership firm/JV Firm/HUF/ Society or as a Director of/LLP Firm any Limited Company etc. In case of more than one offer received and any person is also a Proprietor/Partner of Partnership Firm/JV or Director of a Limited Company/Subsidiary Company which also participated in the same tender, then all such offers shall be considered as "Invalid". | No | No | Not Allowed |
| 26 | The tenderer shall quote his rate as a percentage above or below or at par with the Schedule of Rates except where he is required to quote item rates and must tender for all the items in the Schedule of Quantities as appearing in the Financial Offer Page. The tenderer can also offer rebate (in percentage) on the Gross Bid value in the rebate field provided on the Financial Offer Page. The Net Bid value shall be calculated by applying rebate on the Gross Bid value. The offers shall be ranked on the basis of the Net Bid value. | No | No | Not Allowed |
| 27 | Instructions regarding applicability of Price Variation Clause (PVC) is contained in the Tender Documents. Tenderers are advised to read such conditions before preparing their bid. | No | No | Not Allowed |
| 28 | The offer shall be submitted by the tenderer or the person authorized by the tenderer to digitally sign the tender documents/contract documents on behalf of the tenderer. | No | No | Not Allowed |
| 29 | The detailed item description of NON-SOR items is given in the document attached with the tender. Tenderers are advised to read carefully before preparing their bid. | No | No | Not Allowed |
| 30 | The tenderer shall submit along with the tender document, documents in support of his/their claim to fulfil the eligibility criteria as mentioned in the tender document. Each page of the copy of documents/certificates in support of credentials, submitted by the tenderer, shall be self-attested/digitally signed by the tenderer or authorized representative of the tendering firm. Self-attestation shall include signature, stamp and date (on each page). Only those documents which are declared explicitly by the tenderer as documents supporting the claim of qualifying the laid down eligibility criteria, will be considered for evaluating his/their tender. | No | No | Not Allowed |
| 31 | The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the railway shall not relieve the bidder of its obligations or liabilities here under nor will it affect any rights of the railway there under. | No | No | Not Allowed |
| 32 | In case of any wrong information submitted by tenderer, the contract shall be terminated, Earnest Money Deposit (Bid Security, Performance Guarantee (PG) and Security Deposit (SD) of contract forfeited and agency barred for doing business on entire Indian Railways for 5 (five)years. | No | No | Not Allowed |
| 33 | Certificate as per the format linked under heading Submission of Certificate shall be scanned and submitted/attached with the offer. Failure to submit/attach the certificate with the offer shall render offer incomplete and such offer will be rejected summarily. | No | No | Not Allowed |

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| 34 | STUDY OF DRAWINGS AND LOCAL CONDITIONS: The drawings for the works can be seen in the office of the CSTE/ Construction/ South Western Railway / Bengaluru Cantonment, No.18, Millers Road, Bangalore - 560 046 or in the office of the concerned field Dy.CSTE / Construction / S.W.Railway . It should be noted that these drawings are meant for general guidance only and Railway may suitably modify them during the execution of work according to the circumstances without making the Railways liable for any claims on account of such changes. If there is any variation between the description in the tender and the detailed plans, the Engineer-in-Charge will operate the correct description and his decision is final and binding on the tenderer/Contractor. The Tenderer/ Contractor is required to inspect the sites of works and acquaint himself with the site conditions, availability of approaches for transporting of men and materials, space and other factors relating to the works, availability of labour, electricity and water, etc., before quoting his rates. The extent of lead and lift involved in the execution of works and any difficulties involved in the execution of work should also be examined before formulating the rates for complete items of works described in the schedule. The Tender submitted will be deemed to have been made after such Inspection. | No | No | Not Allowed |
| 35 | DRAWINGS FOR WORKS: The percentage rates for the schedule items and itemized rates for the non-scheduled items quoted by the tenderer as may be accepted by the railways will, hold good irrespective of any changes, modifications, alterations, additions, omissions in the locations of structures and detailed drawings, specifications and/ or the manner of executing the work. It should be specifically noted that some of the detailed drawings may not have been finalised by the Railway and will, therefore, be supplied to the contractor as and when they are finalised on demand. No compensation whatsoever on this account shall be payable by the Railway Administration. No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the works arising out of delay in approval of drawings, changes, modifications, alterations, additions, omission and the site layout plans or detailed drawings and design and/or late supply of such material as are required to be arranged by the Railway or due to any other factor on Railway Accounts. | No | No | Not Allowed |
| 36 | Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. Please refer Clause - 45 of SCC for further details. | No | No | Not Allowed |
| 37 | The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. | No | No | Not Allowed |
| 38 | The work experience certificate shall be issued by an officer not below the rank of JA grade or bill passing Officer in Railways and Bill passing Officer/Executive In-Charge of work in other Govt. /Govt. bodies /PSUs. The certificates should bear the signature and seal of the issuing officer, name of the department. Etc., | No | No | Not Allowed |
| 39 | As per clause No. 5 part I of IRGCC 2022 the details of exemptions/ discount of Earnest Money payment is as follow: | No | No | Not Allowed |
| 39.1 | i) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of earnest money deposit. | No | No | Not Allowed |
| 39.2 | ii) 100 % Govt owned PSUs shall be exempt from payment of earnest money deposit | No | No | Not Allowed |
| 39.3 | iii) Labour Cooperative Societies shall deposit only 50 % of earnest deposit as mentioned in the tender. | No | No | Not Allowed |

Special Conditions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | (a)All rates shall be inclusive of all taxes, duties, charges, royalties etc. as applicable from time to time. In this regard tenderers may refer IRSGCC 2022 with latest correction slips including correction slips issued from time to time and Special Conditions of Contract (SCC) attached with Tender Document. (b) Royalty charges will be regulated as per Special Conditions of Contract attached with Tender Document. | No | No | Not Allowed |
| 2 | Unless otherwise explicitly specified, this tender is not a composite tender. | No | No | Not Allowed |

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|---|--|----|----|-------------|
| 3 | Unless otherwise explicitly specified, incentive bonus payment clause is not applicable. | No | No | Not Allowed |
| 4 | A) An offer shall become invalid: - (i)if the Bid Security is not paid as per IRGCC - 2022 (ii)if the offer is not digitally signed by the tenderer/by the Attorney / by the person authorized by the tenderer to sign and submit the tender on his/their behalf. (iii)if any individual / Proprietor / Partnership Firm / Company /JV Firm/HUF/Society etc. uploads more than one offer either in his/their individual capacity or as a Proprietor or as a Partner/Member of Partnership Firm / JV Firm / HUF / Society etc. or as a Director of any Company, etc. B) An offer shall get summarily rejected if the following documents are not submitted /attached with offer as per the list mentioned in the tender documents: - (i)Documents as applicable in case of Proprietary concern/ Partnership firm / JV Firm / Company/HUF/Society/LLP Firm, etc. (ii) Document verification Certificate. (iii)Ballast test certificate, if applicable. (iv)any other document required for evaluation of the bid. C) An offer shall get summarily rejected if the tenderer adds any condition on his/their own (anywhere in the e-offer), which is in violation of the Railway's Tender Conditions. D) An offer shall become ineligible for award of the tendered work if the tenderer does not fulfil the Eligibility Conditions, (both the Standard Financial Eligibility Criteria and the Standard Technical Eligibility Criteria) prescribed in the Tender Documents and bid capacity if applicable. | No | No | Not Allowed |

Technical-Compliances

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Declaration regarding Employment of Retired Engineer/Retired Railway Officer (Pro forma -6). | Yes | Yes | Allowed (Optional) |
| 2 | List of Machinery, Tools, Plants & Staff to be Deployed on this work (Proforma-3). | Yes | Yes | Allowed (Optional) |
| 3 | Method statement and Time Schedule in the form of PERT chart indicating all activities and showing the period of time that he will take for the various items of work listed therein. The Tenderer shall indicate in the form of notes to the schedule the assumptions and the basis adopted for the preparation of the time schedule, if applicable. | Yes | Yes | Allowed (Optional) |

Undertakings

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1 | I/ We have visited the works site and I / We am / are aware of the site conditions. | No | No | Not Allowed |
| 2 | I/we have read the various conditions of this Tender Document (including documents attached with the Tender Document) and agree to a bid by the said conditions. I/we have also perused the Contract Documents (i.e., the Indian Railways Standard General Conditions of Contract 2022 including correction slips issued from time to time, Special Conditions of Contract and Special Specifications, Regulations to Tenderers (for the guidance of Engineers and Contractors for S&T Works under Works Contracts), Additional Special Conditions, Technical Specifications and Technical Conditions and the SOR-2011 of the Southern Railway and all other documents attached to the Tender and that I/we am/are fully aware that I/we will have to perform the contract if my/our Tender is accepted subject to the Contract Documents complete aforesaid. I/we offer to do the work for South Western Railway at the rates quoted in the SCHEDULE and hereby bind myself/ourselves to complete the work in all respects within the completion period as given in the Tender Document/Contract Document from the date of issue of the Letter of Acceptance. | No | No | Not Allowed |
| 3 | I/we also agree to keep this offer open for acceptance for a period of 60 days in case of SINGLE PACKET SYSTEM and 90 days in case of TWO (2) PACKET SYSTEM from the date fixed for closing of the bid and will not resile from offer or modify the terms and conditions thereof in a manner not acceptable to Railways and in any default thereof, I/we will be liable for forfeiture of my/our Earnest Money. | No | No | Not Allowed |

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|-----|---|----|----|-------------|
| 4 | The requisite amount towards bid security is paid as per IRGCC 2022. I/ We are aware that the full value of the bid security shall stand forfeited without prejudice to any other rights or remedies in case my/our e-offer is accepted and if: | No | No | Not Allowed |
| 4.1 | A) I/We do not execute the contract documents within seven days after receipt of notice issued by the railway that such documents are ready. | No | No | Not Allowed |
| 4.2 | B) I/We do not commence the work within fifteen days after receipt of orders to that effect. | No | No | Not Allowed |
| 4.3 | C) I / We do not submit a Performance Guarantee in any of the forms as prescribed. | No | No | Not Allowed |
| 5 | I am the authorized person to represent the tendering firm and I am authorized to digitally sign the tender documents and all the other documents on behalf of the firm. I am fully aware that the offer will get summarily rejected if the offer is digitally signed by any person other than the person who is authorized to digitally sign and submit the Tender Document on behalf of the tendering firm. | No | No | Not Allowed |
| 6 | I / We hereby certify that all the statements and documents scanned and submitted with my / our offer are true and correct. | No | No | Not Allowed |
| 7 | I am / we are aware of the fact that this offer is made in the full understanding that the Railway reserves the right to verify all statements, information and documents submitted in tender offer, and when it is so required by the Railway, I / We shall make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve me/us of my/our obligations or liabilities nor will it affect any rights of the Railway. | No | No | Not Allowed |
| 8 | I / We (including our constituents) have not been blacklisted or debarred by Railways or any other Ministry/Department of the Government of India / any State Government/ Public Sector Undertaking of the Government of India/State Government from participation in tenders/contracts as on the date of opening of bids, either in our Individual capacity OR as Proprietary Concern/Firm OR as Company OR Limited Liability Partnership Firm OR Registered Society & Registered Trust OR as Partner/Member of Partnership Firm/JV in which we were/are partners/members. Concealment/ wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. | No | No | Not Allowed |
| 9 | I/We are aware of the fact that Firm/Company/Individual Owner/Proprietor etc. will be legally liable and accountable for all activities performed by the authorized signatories through the IREPS website. I/We keep the list and details of the authorized signatories updated at all times and remove the name of the authorized signatory immediately if he/she leaves the company. In case of failure to do so, the Firm/Company/Individual Owner/Proprietor will be held liable for actions of such signatory. | No | No | Not Allowed |
| 10 | I/We are fully aware that an individual/Proprietor/Partnership Firm/Limited Company/JV Firm/HUF/Society/LLP Firm can upload only one offer either in my/our individual capacity or as a Proprietor or as a partner of partnership firm/JV Firm/HUF/Society or as a Director of any Limited Company etc. and incase more than one offer is received by Railways then such offers (including my/our offer) shall be considered as "Invalid". | No | No | Not Allowed |
| 11 | Until a formal agreement is prepared and executed, acceptance of this offer will constitute a binding contract between us subject to modifications as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work. | No | No | Not Allowed |
| 12 | I/we also undertake to carry out the work in accordance with said plans, specifications and Conditions of Contract, and to find and provide such of the materials (other than those to be supplied by the Railway)for, and to do all such things which in the opinion of the Engineer may be necessary for, or incidental to the construction, completion and maintenance thereof and to complete the whole of the said works in all respects, and hand them over to you or your representative (s) with in the period specified and to maintain the same for the period and the manner provided for in the conditions of contract. | No | No | Not Allowed |
| 13 | 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. | No | No | Not Allowed |

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|----|---|----|----|-------------|
| 14 | 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 the documents, submitted by us. | No | No | Not Allowed |
| 15 | I/We understand that if the certificates regarding eligibility criteria and any other information submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for five year on entire Indian Railway. Further, I/We and all my/our constituents understand that my/our offer shall be summarily rejected. | No | No | Not Allowed |
| 16 | I/We also understand that if the certificates regarding eligibility criteria and any other information submitted by us are found to be false/forged or incorrect at any after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire Indian Railway. | No | No | Not Allowed |

Custom

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Maintenance Period - 12(Twelve) Months after issue of PAC | No | No | Not Allowed |
| 2 | For the Scope of Work mentioned in SCC Part-II of this tender, Tenderer need to mandatorily supply SAME RDSO Approved Vendor/OEM make for Electronic Interlocking, Datalogger/RTU, UFSBI, SSBPAC(D), HASSDAC, MSDAC, Electrical Lifting Barrier, Fire Detection and Alarm System, Fire Suppression System, whichever is applicable as per relevant Tender Schedule Items, for ease of maintenance by Open Line. Deviation from this clause is allowed only when there is any changes in RDSO Vendor Directory with respect to the firm under consideration for Supply of the above mentioned items. | No | No | Not Allowed |
| 3 | PVC Applicability - As per IRGCC 2022. | No | No | Not Allowed |
| 4 | Detailed cost and Quantity wise break-up of all Cards, Sub-systems and activities against item no. 1 and 2 of Schedule-E (Electronic interlocking items) to be submitted after awarding the contract and before supply of the materials after entering MOU with RDSO approved OEM. | Yes | Yes | Not Allowed |

6. Documents attached with tender

| S.No. | Document Name | Document Description |
|-------|--------------------------------------|-------------------------------------|
| 1 | 1GCC_April-20221.pdf | 1GCC April 2022 |
| 2 | 6TechnicalSpecificationTELE1.pdf | 6TechnicalSpecificationTELE 1 |
| 3 | SpecialConditionsofContractSCC_1.pdf | Special condition of contract |
| 4 | 1RegulationtoTenderer.pdf | regulation to tenderer |
| 5 | ACS-1_1.pdf | ACS1 OF GCC |
| 6 | ACS-2.pdf | ACS2 OF GCC |
| 7 | ACS-3.pdf | ACS 3 OF GCC |
| 8 | ACS-4.pdf | ACS 4 OF GCC |
| 9 | 3PROFORMA.pdf | PERFORMA |
| 10 | ADDITIONALROADVEHICLEGUIDELINE.pdf | ADDITIONAL VEHICLE POLICY |
| 11 | 5TypicalDrawings_ver-1.pdf | TYPICAL DRAWINGS |
| 12 | detailsspecificationofmsdac.pdf | MSDAC specification |
| 13 | SIP.pdf | Signalling Plans |
| 14 | DucttypeACinrelayroomguideline.pdf | duct type AC in relay room guidelin |
| 15 | 2017_CE-I_CT_4_GST.pdf | GST Complience |
| 16 | functioncalculation.pdf | function table |
| 17 | TechnicalSpecificationSIGNAL.pdf | technical specification signal |

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by

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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: SHWETA AGARWAL

Designation : Dy.CSTE/CN1/BNC