

**CKP-DIVN- S AND T/SOUTH EASTERN RLY  
TENDER DOCUMENT**

**Tender No:** ST-CKP-OT-26-27-41

**Closing Date/Time:** 10/07/2026 15:00

**Sr.DSTE/CKP** acting for and on behalf of The President of India invites E-Tenders against Tender No **ST-CKP-OT-26-27-41** Closing Date/Time 10/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

<b>Name of Work</b>	S&T works in connection with Extension of Line No-4 at Barbil Station.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Single Packet System
<b>Tender Closing Date Time</b>	10/07/2026 15:00	<b>Date Time Of Uploading Tender</b>	17/06/2026 20:05
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	16208317.97	<b>Tendering Section</b>	S AND T
<b>Bidding Style</b>	Single Rate for Each Schedule	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	324200.00	<b>Validity of Offer ( Days)</b>	60
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	26/06/2026		
<b>Are JV allowed to bid</b>	No	<b>Number of JV Member Allowed</b>	0
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () A-Execution-SOR (Signalling Work)</b>							6658686.00	Above/ Below/P ar
1	Please see Item Breakup for details.				6658686.00	AT Par	6658686.00	
	<b>Description:-</b> Details of Schedule 'A' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B-Material Supply-SOR (Signalling Work)</b>							1705226.00	Above/ Below/P ar
1	Please see Item Breakup for details.				1705226.00	AT Par	1705226.00	
	<b>Description:-</b> Details of Schedule 'B' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () C-Execution (Telecom Work)</b>							700241.00	Above/ Below/P ar
1	Please see Item Breakup for details.				700241.00	AT Par	700241.00	
	<b>Description:-</b> Details of Schedule 'C' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () D-Material Supply (Telecom Work)</b>							305628.00	Above/ Below/P ar
1	Please see Item Breakup for details.				305628.00	AT Par	305628.00	
	<b>Description:-</b> Details of Schedule 'D' are given Below: -							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1-Execution (EI Alteration Work)							4221981.71	Above/ Below/P ar
1	Please see Item Breakup for details.				4221981.71	AT Par	4221981.71	
	Description:- Details of Schedule 'A1' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A2-Execution-Non-SOR (Signalling Work)							594726.80	Above/ Below/P ar
1	Please see Item Breakup for details.				594726.80	AT Par	594726.80	
	Description:- Details of Schedule 'A2' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B1-Material Supply-Non-SOR (Signalling Work)							126860.16	Above/ Below/P ar
1	Please see Item Breakup for details.				126860.16	AT Par	126860.16	
	Description:- Details of Schedule 'B1' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B2-Execution and Supply (Automatic Fire Detection & Alarm System work)							870026.30	Above/ Below/P ar
1	Please see Item Breakup for details.				870026.30	AT Par	870026.30	
	Description:- Details of Schedule 'B2' are given Below: -							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B3-Material Supply (Store)							1024942.00	Above/ Below/P ar
1	Please see Item Breakup for details.				1024942.00	AT Par	1024942.00	
	Description:- Details of Schedule 'B3' are given Below: -							

**3. ITEM BREAKUP**

Schedule	Schedule A-Execution-SOR (Signalling Work)						
Item- 1	Details of Schedule 'A' are given Below: -						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	01	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. (i) Depth 1.0 meter, Width 0.3 meter.	Kilometre	12.00	79869.00	958428.00	

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2	02	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. (i) Depth 1.2 meter, Width 0.5 meter.	Kilometre	1.00	95893.00	95893.00
3	03	Laying of S&T Cables (Signal/Quad/Power) in the excavated trench to Drawing No. CON/SK/T/5 or latest. Supply and transportation of 'U' clamps, anchoring of cable at every 10 metres interval with 'U' clamp on trench to Drawing No. CSTE/CON /CABLES/81 or latest. Supply, transportation, and placing of cable demarcating led belt to Drawing No. CON/SK/T/6 or latest punched at an interval of 30 metres and wrapped round each cable throughout the cable route and also at every track/Road/ platform crossing as above specified in Technical Circular No. 2/1988 & 01/2010 issued by CSTE/SER or as per latest guidelines and guarding the cables. Collecting empty drums with left over cable and to be returned to the stores of stock holder. Note: Cables will be meggered before & after its laying by contractor under supervision of Railway representative & Contractor will submit their reports.	Kilometre	98.00	20239.00	1983422.00
4	04	Transportation of cables in rolls with or without wooden drums (S&T Cables) from concerned store to the site of works. Note: The unit Drum-KM indicates Drum X length of cable in that drum. It doesn't have any significance over the distance it has to be carried for execution of the work.	Drum-Km	98.00	2328.00	228144.00
5	05	Execution of Straight joint on Quad cable/ jelly filled Telecom cable using Thermo-shrink/Universal jointing kit (RTSF). This includes excavation of cable joint pit of size 1.5 m X 1.5 m X 1.2 m for jointing of cables, back filling and ramming after jointing. After jointing, the cable through test such as insulation test, continuity test etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing the contractor has to redo the joint free of cost. Note: In case jointing is required to be done in the Location boxes, then 80% payment will be released.	Numbers	10.00	1437.00	14370.00
6	06	Supply & laying of 300 mm X 100 mm pre-cast/cast in -situ RCC cable ducts including top cover as per RDSO drawing No. SDO/S&T/RCC DUCT/1018/1 & 2, dated 29.5.23 or latest. Note-The rate is inclusive of all type of transportation including labour till it is placed into trenches. The laying of cables shall be paid separately fulfilling the laying procedure as per above drawings. (Inspection by Representative of Sr.DSTE/CKP)	Metre	300.00	2926.00	877800.00
7	07	Installation, Wiring, Testing, Validation and commissioning of Remote terminal unit(RTU) with 128 Digital & 16 Analog inputs with modem as per Specification No. IRS:S-99/2006 (Amdt-3) or latest.	Set	1.00	18574.00	18574.00

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8	08	Mechanised Drilling/Micro Tunnelling under important/ busy metal/concrete road/Railway track and laying of GI pipe including supply (make: TATA/Jindal or better) of min. 75mm inner diameter Grade Medium with Spec. No. IS-1239, Pt-1, 2004 including supply, Boring and pulling cable upto 110mm dia. at a depth of min. 1 meter as per site condition. This also includes reinstatement of the surface to the original state.	Metre	100.00	2215.00	221500.00
9	09	Supply, transportation and fixing of Galvanised Iron Pipe (make: TATA/Jindal or better) with threaded collars (for jointing pipe) of 100 mm nominal bore Specification No. IS: 1239, Pt-1, 2004 thickness 3.6 mm medium grade and fixing on girder bridges as per Drawing No. CON/SK/T/4 or latest including supply and transportation of channel, angle, iron brackets, Steel Nuts and bolts with hole and split pin of proper size for fixing of trough as per above drawings including drawing of cables inside the pipe with masonry work at bridge entry and exit of the Bridge and curing for 72 hours and pipes are to be clamped at min. 1.5 meter apart for S&T Cables. Note: This also includes welding of G.I Pipe & dismantling of released GI Pipe/Trough and released materials should be returned at concerned store. G.I Pipe to be painted with anticorrosive paint with S&T cable to be written on GI pipe. Painting cost included with supply of GI Pipe. (Inspection by Representative of Sr.DSTE/CKP)	Metre	50.00	1993.00	99650.00
10	10	Horizontal Drilling by using manual pushing method (also called moling) at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge. Boring diameter should be atleast 110mm. The ground level shall be considered ignoring the bank height of the bank of the road. Note: DWC/HDPE Pipe Supply is covered under this item. Contactor shall provide all material required for work and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Payment of boring shall be made only after laying of the cables into DWC/HDPE/GI pipe.	Metre	300.00	1023.00	306900.00
11	11	Cement Concrete of proportion 1:3:6 (Cement: Sand: Stone chips of 25mm nominal size) for miscellaneous works. It includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). Note: All materials required for foundation are to be supplied by the contractor.	cum	18.00	3647.00	65646.00

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12	12	Transportation, Grouting/Erection, wiring as per approved wiring diagram on 19" Relay rack/Composite/Q-Series Relay Rack with subsequent alteration. This includes supply of 3/4 X 9" anchor nuts & bolts, washer, D-bracket & 60mm insulator, supply & fixing of M.S. ladder as per requirement for rack to rack connection, on CTR and control panel, fixing of plug boards, relays, terminal blocks, terminals, filter units, tag blocks, fuses, bus bars, shelves, strips, 6mm Hylam sheet of required length for writing terminal description etc., fixing and termination of cables on the relay racks with number embossed ferrules, bunching of cables with PVC tape, earthing of cable armour including painting and lettering. Wiring and testing of complete relay rack accommodating all relays as per wiring diagram. Cement, stone chips & sand as required for mounting to be provided by contractor. All materials such as eyelets, Hylam sheets, ferrules, trough etc., if required for modification of rack shall be supplied by the contractor and to be carried out at site with no extra cost to the Railway.	Numbers	2.00	47638.00	95276.00
13	13	Transportation, grouting/erection, fixing and installation of Cable Termination rack (CTR), fixing of MS Wiring ladder from relay rack to CTR, and on to top of the CTR- including supply of 3/6mm Hylam sheet of required size for fixing terminal blocks & writing terminal description, termination of cables, bunching of cables by PVC tape and earthing of cable armours, painting, lettering as required. The contractor shall draft terminal analysis chart on the white bond paper of appropriate size & supply wiring materials like eyelets of sizes, trough, condensers and resistances as per required capacity, HV protection cover with fixing top caps and danger symbol, soldering material of approved quality etc. shall be supplied by the contractor. Cement, stone chips and sand as required for mounting CTR, Sand for filling of cable pit and other required masonry work, Sundry materials such as MS plate/angles, MS wiring ladders as per approved Drawing, , Anchor bolt 5/8" X 9" with nut and washers -4 No., Nickel plated screws 2BA X1" with nuts and washers for fixing Hylam sheet, numbers embossed ferrules 2.5 sq. mm, PVC bunching tapes and buttons, paint synthetic enamel of smoke grey colour for painting, MS clamps with bolts and nuts of sizes, D-bracket and 60mm insulator, for fixing cables, screws of sizes as required shall be supplied by the contractor. Cables should be routed properly through ladder.	Numbers	2.00	51944.00	103888.00

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14	14	Execution of Full Apparatus Case with earth excavation for pit, concrete foundation, surrounding earth work, erection and installation as per Drawing No. Con/SK/T/8 or latest and wiring to be done as per SEM Drawing No.19-D8 or as per direction of site engineer. Supply and fixing of Hylam sheet strip of appropriate size of 3 mm or 6 mm as required with hole for fixing of terminals, fuse blocks, relay and other accessories for signal/track circuit, termination of cable with number embossed ferrules, bunching of cables with PVC tape, proper soldering of cable armour with earth catenary wire, earthing of cable armour as required. Writing & terminal description including Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anticorrosive paint and subsequent two coats of Aluminium paint outside and red oxide inside and lettering etc. This also includes transportation of 25 mm/12mm Hylam sheet for shelf or as required and also includes minor modification in L/Boxes as per site requirement. The contractor shall supply 4 no. of foundation nuts & bolts of size 22 mm dia. x 450 mm long with 2 flat spring washers, with each nut & bolts, sand for filling up cable pit inside the apparatus case including plaster and bolts, nuts, screws, MS Clamps for fixing equipment/cable. Note: - Part payment shall be released after completion of- (i) Foundation- 40%, (ii) Erection - 10%, (iii) Wiring, earthing, testing - 20%, (iv) Painting, writings - 10%, (v) Plastering, sand filling & etc. - 10%, (vi) Commissioning - 10%.	Numbers	15.00	9147.00	137205.00
15	15	Transportation and installation of 2-Aspect Signal Post for MACLS as per drawing no. Con/SK/T/12 or SEM-Drawing No. 19-D3 or RDSO/M-00011RU dated 12.01.18 or latest complete with signal units, base, ladder and other fittings, excavation of earth pit, casting concrete foundation, erection of posts, thereof as specified in the note given in drawing, fixing of complete fittings of the signals with necessary earth screen protection arrangement as required including termination of cables, painting and lettering as required. Foundation nuts & bolts of appropriate size as per above drawings or latest as per RDSO Drawing No. SA-116 A/M confirming to IS: 226 and IRS:S-10/78 Rev.8. or latest to be supplied.	Numbers	2.00	10788.00	21576.00
16	16	Transportation and fixing of Calling ON Signals/ Guard Repeater unit/Dependent Shunt Signals / Illuminated 'A' /Illuminated 'AG' marker for MACLS on the erected signal post complete with marker including termination of cables, wiring, painting and lettering as required.	Numbers	4.00	2367.00	9468.00
17	17	Transportation, Installation, Wiring, Testing & Commissioning of LED Signals Lamps for Main signals Lighting Unit (i.e. Red/Yellow/Green) as per instruction of railway Engineer at the site. Note: LED particulars such as aspect, make, type, Sr. No. etc. to be recorded in proper register.	Numbers	15.00	1099.00	16485.00

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18	18	Transportation, Installation, Wiring, Testing & Commissioning of LED Signals Lamps for Subsidiary signals lighting unit (i.e. Route aspect/Shunt Signal/Calling on aspect/A marker/AG marker etc.) as per instruction of railway Engineer at the site. Note: LED particulars such as aspect, make, type, Sr. No. etc. to be recorded in proper register.	Numbers	38.00	926.00	35188.00
19	19	Transportation and installation of Electric point machine on MS plate fixed on concrete sleepers complete with fixing of anti-theft cover, crank handle key interlocking arrangements, Junction boxes, ground connections including smithy works, insulation of MS plate on which the point machines to be fixed from the gauge tie plate involving riveting/welding of angle cleats, termination of cables, preliminary adjustment of operation of points by crank handle, wiring, painting and lettering as required. Drilling of holes for fixing of switch extended bracket and leading stretcher bar, lubrication etc. Note: All the required nut-bolt, washer, MS-plate for anti-theft, eyelets, etc. for fixing of point machine to be supplied by contractor.	Numbers	2.00	13523.00	27046.00
20	20	Installation, wiring, testing and commissioning of track circuit on Straight Portion of Track (without involving points and crossings) as per Drawing No. SK/DRG/OL/27 or latest and track bonding plan. The work includes drilling of 9/32" hole on Rails, provision of bonding, fixing and painting of Track Lead Junction Boxes, termination of tail cables, termination of Track lead wires, double Jumper wires, Installation & wiring of track feed set (Track Charger, Adjustable Resistance, choke coil, fuses, battery, relays etc.), testing of Glued/Block Joints and also lettering/numbering of track lead junction boxes, block joints and track circuits. This also includes transportation of all materials required for the above installation. Note: Track feed set, bonding wires, TLJB, channel pin, tail cable to be supplied by Railway.	Set	3.00	7932.00	23796.00
21	21	Installation, testing and commissioning of track circuit on Point & Crossings as per Drawing No. SK/DRG/OL/27 or latest and track bonding plan. The work includes drilling of 9/32" hole on Rails, provision of bonding, fixing and painting of Track Lead Junction Boxes, termination of tail cables, termination of Track lead wires, double Jumper wires, Installation & wiring of track feed set (Track Charger, Adjustable Resistance, choke coil, fuses, battery, relays etc.), testing of Glued/Block Joints and also lettering/numbering of track lead junction boxes, block joints and track circuits. This also includes transportation of all materials required for the above installation. Note: Track feed set, bonding wires, TLJB, channel pin, tail cable to be supplied by Railway.	Set	2.00	8108.00	16216.00

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22	22	Transportation, installation and charging of 2V lead acid type Secondary Cell and preparation of electrolyte for each cell. Charging to be done as per OEM's instruction with uninterrupted power supply in presence of Railway representative. After charging, it should be kept at the dedicated location as per use. Note- If power is not available at site of work, charging may be done at nearby location as per convenience of the railway. This includes transportation of uncharged cells at the site of charging, supply of acid, distilled water at the site of charging and transportation of charged cells back to the site of work. (i) 2 Volt 80AH.	Numbers	12.00	405.00	4860.00
23	23	Excavation of earth pit, placing & fixing of Earth electrode with construction of cement enclosure to SEM Drawing No. 19-D6 and drawl of 6 SWG GI/Copper cable from earth electrode to goomtys/relay room/cabin/station, etc. and drawl of MS flat 35mm x 6mm for signal post/Location box shall be used as the case may be, including fixing at both ends of the wire/MS flat. This includes transportation of materials. Note: Materials such as charcoals, salt, sal ammoniac, 6 SWG GI wire, copper lugs with Steel bolts & nuts etc. shall be supplied by the contractor. MS flat 35mm x 6mm/Copper cable shall be supplied by Railway.	Numbers	17.00	1791.00	30447.00



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24	24	Design and supply of the following drawings to office records as per requirement of the Railways. This includes alteration at different stages and finally supply of all the drawings including tracings within 30 days or as defined in the tender document from the date of commissioning of the work, otherwise penalty to be imposed as per tender document. This includes the following drawings for each station: (1) Cable layout plan, (2) Cable corrage plan, (3) Location Hut drawing, (4) Termination chart of end goomties and location hut, (5) Traction bonding plan, (6) Contact Analysis Chart, (7) SWRD & GWRD, (8) Equipment Layout Plan, (9) Power Supply arrangement diagram, (10) Relay Disposition chart, (11) Any other drawing as found relevant as per site condition. Office record if online maintenance is not implemented includes the following: (i) Battery History book, (ii) Track Circuiting Register, (iii) Track circuit maintenance Register, (iv) Cable Meggering Register, (v) Signal History Register, (vi) LED Register, (vii) Glued joint/ Block joint Register, (viii) Point machine Maintenance Register, (ix) Joint Inspection Register such as P. Way, Electrical & Signal, (x) Relay Register, (xi) Route cancellation Register, (xii) Relay Room Key Register, (xiii) Emergency Point operation Register, (xiv) Crank Handle Register, (xv) Emergency Route Cancellation Register, (xvi) Axle counter reset register, etc. (xvii) Supply and preparation of SIP where required. Note:-(i) All the diagram will be made on Auto CAD. The paper size of wiring diagram will be A-3 or as per IRSEM or as per IRSEM. Soft Copy/AUTOCAD file of all drawings to be submitted alongwith paper drawing. Wiring diagram will be made in 'Black colour'. Alteration to wiring diagram will be done using 'RED' and 'Green' colouring scheme. RED = new equipment/contact to be installed or commissioned. GREEN = redundant equipment/contact to be recovered. (i) Up to 6 to 10 line yard.	Station	1.00	58106.00	58106.00
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25	25	Design of Route Control Chart (RCC), Front Plate Diagram (FPD) and circuits for Panel Interlocking as per approved Signal Interlocking Plan and typical circuit diagram. Wiring diagram shall be made in 'Black Colour' and Alteration to wiring diagram with Red for new installation and green for deletion contact/equipment. All the drawing and design shall include the copy of production checking, independent checking, first & second level checking, and commissioning copy. Submission of Two sets of prints with all correction for Railway's approval. Approved copy (06 Sets) of all drawings in plastic folders along with the original tracings in spiral bound with editable Auto-CAD file latest version. This includes the following drawings for each station: (1) Cable layout plan, (2) Cable corrage plan, (3) Location Hut drawing, (4) Termination chart of end goomties and location hut, (5) Traction bonding plan, (6) Contact Analysis Chart, (7) SWRD & GWRD, (8) Equipment Layout Plan, (9) Power Supply arrangement diagram, (10) Any other.drawing as found relevant as per site condition. Office record if online maintenance is not implemented includes the following: (i) Battery History book, (ii) Track Circuiting Register, (iii) Track circuit maintenance Register, (iv) Cable Meggering Register, (v) Signal History Register, (vi) LED Register, (vii) Glued joint/ Block joint Register, (viii) Point machine Maintenance Register, (ix) Joint Inspection Register such as P. Way, Electrical & Signal, (x) Relay Register, (xi) Route cancellation Register, (xii) Relay Room Key Register, (xiii) Emergency Point operation Register, (xiv) Crank Handle Register, (xv) Emergency Route Cancellation Register, (xvi) Axle counter reset register, etc. (i) Up to 6 to 10 line yard.	Station	1.00	230351.00	230351.00
26	26	Preparation of Station Working Rules (SWR) in English on the basis of station working rule diagram and gate working rule diagram to be supplied by the contractor. Submission of two draft copy to railway for checking and resubmission of draft in three copies for approval of division after making corrections. Editable Soft copy to be supplied in pen drive.	Set	1.00	13595.00	13595.00
27	27	Preparation of Station Working Rules (SWR) in Hindi/Regional Language of that station on the basis of station working rule diagram and gate working rule diagram to be supplied by the contractor. Submission of two draft copy to railway for checking and resubmission of draft in three copies for approval of division after making corrections. Editable Soft copy to be supplied in pen drive.	Set	1.00	13595.00	13595.00
28	28	Designing and Plotting of Signalling Interlocking Plan(SIP) in AUTOCAD. Two copies of prints with soft copywill be submitted to Railway for checking. If alterations aresuggested/proposed by Railways then again two copiesof prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the Railways. Tracings will be submitted for all thediagrams mentioned above for the purpose of approval by Railway prior to commissioning of station.	Per SIP	1.00	28072.00	28072.00

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29	29	HDD: In case of short stretches (less than 100 m in single stretch) Micro Tunnelling through Horizontal directional drilling (HDD) machine, preparation of sites, boring and laying of HDPE pipes of size (Outer/Inner diameter= 50mm/42mm) for crossing of S&T cable through HDPE pipe at bridges/culverts/track crossing/pucca road crossing. Boring trench shall be minimum 3 (three) meter below the surface/river bed and minimum 1 m at track/road/pucca road crossing area etc. This includes supply of permanently lubricated HDPE telecom ducts of equal length as per Specification No. RDSO/SPN/TC /45/2013 REVISION 2.0 with latest amendments. For each HDPE duct the following items are to be supplied as per requirement (a) End plug, (b) Cable sealing plugs, (c) Plastic coupler slip fit/push fit type & (d) End plugs to be provided along with drum. In case the site doesn't allow to perform as per schedule, written approval must be obtained from at least site incharge officer. Note: The boring profile should be recorded and submitted for verification of depth and length of boring.(i) 4 HDPE pipe	Metre	120.00	1964.00	235680.00
30	30	Alterations/modifications works on existing relay rack (Q-series/ Composite Relay Racks)/Cable Termination Racks (CTR) including works of installation, wiring, termination, testing and commissioning. The work includes fixing of aluminium/steel/M. S ladder along with supply as per requirement to accommodate additional plug board, relays, terminals/blocks, terminals, tag blocks, fuses, transformers, bus bars, TW shelves/strips etc. in the existing relay racks/CTR's, 6 mm Hylam sheets of required length for writing terminal description etc. fixing and termination of cables on the relay racks, CTR's with number embossed ferrules, bunching of cables with PVC tapes, earthing of cable armours, covers including painting and lettering, making anti tilting arrangement. Note:- a) Relay rack (Q-series/ Composite Relay Racks) : Payments for alterations in existing relays upto 20 nos. relays & above 20 nos. shall be made 50% & 100% respectively. b) Cable Termination Racks (CTR):- Payments for alterations in existing CTR upto 120 cores & above 120 nos. cores shall be made 50% & 100% respectively.	Numbers	4.00	21225.00	84900.00
31	31	Alteration/modification in existing location boxes, includes fixing/Removal or both the equipment, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagram. This includes filling with sand and plastering the same. Note: All the sundry materials such as paint, sand, cement, screws etc to be supplied by the contractor.	Numbers	8.00	2734.00	21872.00
32	32	Transportation, installation and wiring of Rotary key transmitters/KLCR on Hylam sheet board including wiring & fixing of push button bell switch on Hylam sheet of 12mm including termination, painting & lettering. The sundry materials such as Hylam sheet, push bell switch etc. to be supplied by contractor.	Numbers	2.00	1553.00	3106.00

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33	33	Shifting/re-locating/opening & refitting during Engineering work, fixing, wiring, testing of existing MSDAC DP as per direction of site engineer of Railway. This includes excavation of trenches for fixing of Tx/Rx cable, foundation etc. if required and re-erection of same DP. Note: Track device means 01 DP of MSDAC. Any Rail connect/Track device accessories like nut & bolt, insulation etc. and damage during shifting has to be supplied by the contractor.	Per Detection Point (DP)	3.00	2612.00	7836.00
34	34	Dismantling of old S&T equipment such as lever frame, mechanical rod run, FPL, old relay racks, old electrical equipment, Motor points & other structure like signal posts, traffic LC gate gears and others as per site requirement after commissioning of the installation. All released materials are to be transported from concerned site to concerned storest. Note: Before start of the dismantling, a detailed list of the materials which are to be dismantled to be prepared & handed over to the site engineer. (i) For station yard above 5-10 line	Station	1.00	80037.00	80037.00
35	35	Miscellaneous arrangements for NI period comprising of a) Temporary goomty/Tent of dimension at least 12'x12' at both side of the station yard and at central panel building, furnished with one table, six chairs, emergency light and mosquito repellent. b) Sufficient temporary lighting arrangement throughout the yard from Sunset to sunrise one day prior, during and post NI work. This includes provision of minimum two DG set of minimum 7.5 KVA capacity and halogen/LED flood lights. The DG sets, consumables materials such as Diesel, Operator etc. has to be arranged by the contractor at his own cost. c) Provision of PA System at both the end of the yard, including at central location if required. d) Resting arrangement for atleast 16 staff at night. e) Vehicle for transportation for to and fro movement of S&T staff during NI period. f) Manning of adjacent station to be done by contractor. g) Provision of printing/Xerox copies of drawings, wiring diagram, CTR/ Location box terminal chart, point wiring, MSDAC/track circuit wiring, NI program, Signal wiring, track bonding plan, etc. in a plastic folder. No. of copies depends upon the number of team formed for NI and as per instruction of officer incharge of NI. h) This also includes Free home & Free Starter wiring for NI as per the instruction of site engineer and any other works as assigned from time to time by Railway engineer. (i) More than 200 Routes	Station	1.00	155512.00	155512.00
36	36	Physical tracing and opening/locating of existing working cables by precision digging for diversion of cables in connection with cable clearance for engineering earth work or for utility shifting without interfering the circuits as per the advice of Railway site engineer.	Metre	80.00	257.00	20560.00
37	37	Shifting of existing location boxes to facilitate earthwork by Engineering department or others by realising of cables from old location boxes and taking into new location boxes. This includes excavating the earth to release from old & insert into new location boxes & finally filling with sand and plastering inside new location boxes. Note: The released location box has to be deposited to the nearest station.	Numbers	6.00	3041.00	18246.00

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38	38	Removal of normally 13m Rail in the way of cable route trench, signal/location box foundation, track crossing etc. In case of less or more than 13 m, proportionate payment to be done. These obstructions will be removed by the contractor for ensuring proper execution of related works.	Numbers	40.00	117.00	4680.00
39	39	Removal of PSC/Wooden/Steel sleeper in the way of cable route trench, signal/location box foundation, track crossing etc. These obstructions will be removed by the contractor for ensuring proper execution of related works.Note: In case of broken sleepers, proportionate payment will be made.	Numbers	40.00	118.00	4720.00
40	40	Supply, transportation and fixing of RCC Cable Route Marker as per SEM drawing No. 15-D1 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	30.00	576.00	17280.00
41	41	Installation, Testing and Commissioning of SMPS based Integrated Power Supply System as per Specification No. RDSO/SPN/165/2023 Ver. 4.0, Amdt.1 or latest and conforming to SE Railway Drawing No. SK/DRG/OL/SER/253, dated 23.01.19.	Set	1.00	60074.00	60074.00
42	42	Transportation, grouting and laddering of Integrated Power Supply (IPS) System including laying & termination of power & signalling cables through ladder on Hylam sheet, fixed on MS angle, by contractor on wall in panel/IPS room of adequate size,painting & lettering. Note: Transportation of batteries, electrolyte, bolts & nuts, screws, trough etc. and other sundry materials required for the above work shall be supplied by the contractor as required. The IPS to be commissioned by the OEM.	Set	1.00	43881.00	43881.00
43	43	Routing and termination of 25 mm X 2 mm copper tape(BRC)/8 mm solid copper round conductor which is to be fixed inside the equipment room with 60 mm, 6KVA insulation studs including supply of insulation studs. The separation of the two successive insulation studs should be 600mm apart. Note: BRC to be fixed 0.5 mtrs from Room floor as per RDSO/SPN/197 Para 8.5.1(b).all the equipment shall be connected to the nearest point on the BRC using bonding wires routed through the floor of the room. Routing through the floor ensures the shortest path and prevents the earth wire from running parallel to any power/data cables. it is mandatory that a complete close loop has to be formed for BRC.	Metre	60.00	90.00	5400.00
44	44	Digging a trench to a minimum depth of 0.5 meter and laying 50 mm X 6 mm bare Galvanized steel tapeconnecting all the earth pits. Carrying out exothermicweld connections on all the earth electrodes. It shall beensured that the distance between any two earthelectrodes shall be minimum 3 meter (length of the earthelectrode) and maximum up to 6 meter (twice the lengthof the earth electrode) to avoid mutual resistanceeffects. Earth enhancement compound of 10 Kg alongeach meter also to be spread along the Galvanized steeltape. Note :The digging to be filled with soil immediately after welding 50mmX6mm Galvanized steel tape connecting all the earth pit & spreading of Earth enhancement compound.	Metre	180.00	90.00	16200.00
45	45	Installation of Single Maintenance Free Earth pit as per RDSO Drawing No. SDO / RDSO/ E&B/001	Set	12.00	6098.00	73176.00

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which includes the following, a) Digging/Auguring/Boring of single earth pit of 100mm to 125mm dia. to the depth of approx. 3 meter. b) Insertion of 3.0 meter electrode and penetrating it minimum 150 mm by pushing gently with sledge hammer where the natural soil is assumed. (c) Filling of earth pit with Earth Enhancement Compound (EEC) in slurry form and backfilling. (d) Carrying out exothermic weld connection on single earth electrode to a copper tape of 200 x 25 x 6 mm. (e) Carrying out exothermic weld connection on the copper tape of 200 x 25 x 6 mm on Earth Electrode for connecting 4 X 35 Sq. mm cables for redundancy. (f) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms, which includes graphite modules, clamps, weld metal powders etc. (g) The dimension of the chamber will be of 300 x 300 x 300 mm (inside dimension) of RCC with 50mm thick and fine finish, Inspection chamber should be as per IEC 62561-5 or latest. The top RCC cover size shall be 400 mm X 400 mm X 50mm. The date of testing and earth resistance value shall be written on the cover with black base with yellow paint or as per instruction of site Engineer. Note: Installation should be done as per guidelines given in RDSO TAN No. STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or Latest. (i)All materials used for the installation of the earth system shall be anti-corrosive,The installation of Earthing and Bonding for all S&T installations (EI, PI, RRI, Auto Hut, IBS, LC, Telecom hut etc.) shall be as per Annexure-III (a)or (b) (ii)The procedure of Exothermic welding, as outlined in Annexure-IV shall be followed. (iii)The OEM shall be responsible for complete supply, installation & commissioning of the Earthing & Bonding system. (iv) The Pre-commissioning checklist shall be followed during installation. This has been reiterated by this office letter no. RDSOSIG0EnB(GEN)/1/2020 dt. 18.07.2024 and also included in guidelines for earthing, bonding, surge and lightning protection issued on 01.01.2025. (v)Perimetric/Ring Earthing diagram should be painted on suitable Location on wall as per instruction of Site Engineer. (vi)Work to be executed by OEM & after the installation of Earthing & Bonding system. Warranty of such system shall be 60months from date of commissioning. (vii) The overall Earth resistance value for the earth connected with MEEB shall be less than 1 ohm. If necessary multiple earth shall be provided in loop to achieve earth resistance less than 1 Ohm. (viii) The distance between two successive earth electrode shall be not less than 3 meter and more than 6 meter. (ix) It is recommended that, multiple earth pits shall be installed around the perimeter of the building. However, at some locations, it may not be possible to form a perimetric earth around the Relay room, Power supply room and Station master room. In such cases, ring earthing arrangements consisting of interconnected multiple earth electrodes may be installed in the available free space as close as possible to the station building. A Sample drawing is attached as Annexure III for reference. (x) Earth pits shall be installed at least one meter away from building wall. (xi)

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		Minimum 20 meter distance should be maintained between electrical and S&T earth. (xii) Sand filling where required and suggested by site Engineer.				
46	46	Digging a trench to a depth of at least 0.5 meter and run the 4 x 35 sq. mm ( MEEB to main Earth pit) as per site engineer, earth conductor(4x35 sq. mm) in protective PVC conduit pipe, procured against supply item, from Earth pit to MEEB. Routing and exothermic termination of 4 x 35 sq. mm cable on earth conductors (200mmX25mmX6mm Cu Strip) as well as on 300 mm X 25 mm X 6mm MEEB, which is to be fixed inside the equipment room with two 60mm insulation studs. The 60mm insulation studs have also to be supplied. (As per RDSO TAN No.STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest) Note : (1) there should not be any Loop in Earthing Bonding conductor from MEEB to Main earth pit. (2) The earth pits shall be interlinked using 50 mm x 6 mm Galvanised steel tape conductor with proper exothermic welding & As per Para 8.4.2 (d) of RDSO/SPN/197 V1.0, the interconnecting conductor(50 mm x 6 mm Galvanised steel tape) shall be buried at a depth of not less than 500 mm below the ground level. This conductor shall also be covered with approximately 30 kg of earth enhancement compound for every 3 meters of its length( procured against supply item).	Metre	160.00	90.00	14400.00
47	47	Routing and connecting of all the SPDs in the equipment room to MEEB/SEEB to MEEB with 16 sq. mm copper cable using copper lugs with stainless steel nut and bolts. The work includes laying and routing the copper cable in PVC / conduits and fixing them on wall. The PVC/conduit pipe to be supplied by Railway. Note 1: MEEB shall be installed not more than 0.5 metres from LPD /SPD box and preferably near SMR rack of IPS (Annexure-V) as per RDSO TAN No.STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest. if required SPD to be shifted from Relay rack/Power Rack/CTR to wall mounted position such way distance from MEEB to SPD not more than 0.5 mtrs. Note 2 :all the equipment shall be connected to the nearest point on the BRC using bonding wires routed through the floor of the room. Routing through the floor ensures the shortest path and prevents the earth wire from running parallel to any power/data cables. The cutting to be filled and finished with cement / concrete, and plastering. The wire will be laid in suitable PVC pipe and this work is to be executed as per directions of Railway engineer at site	Metre	180.00	58.00	10440.00

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48	48	Routing and connecting of all the equipment in the equipment/relay room to SEEB/BRC with 10 sq. mm copper cable using copper lugs with stainless steel nut and bolts and fixtures. The work includes laying and routing the copper cable in PVC / conduits and fixing them on wall as per TAN No.STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest .The PVC/conduit pipe to be supplied by Railway. Note: all the equipment shall be connected to the nearest point on the BRC using bonding wires routed through the floor of the room. Routing through the floor ensures the shortest path and prevents the earth wire from running parallel to any power/data cables.The cutting to be filled and finished with cement/concrete, and plastering. The wire will be laid in suitable PVC pipe and this work is to be executed as per directions of Railway engineer at site.	Metre	280.00	58.00	16240.00
49	49	Lettering / Numbering/Perimetric earthing/ ring earth Diagram/ floor painting/earth value writing equipment names etc., legibly and neatly as per direction of railway site engineer. This includes supply of paints of make Asian Paints/ Nerolac / Dulux / Berger or better.	Numbers	3.00	205.00	615.00
50	50	Supply And Installation of Mould And Exothermic Powder( Single Welding) for copper strip 25x2 to Earth Pit for Earth pits interconnection/copper strip 25x3 to copper strip 25x3/35Sqmm PVC Cable to 200x25x6mm Copper BusBar /17.2mm Rod To 200x25x6mm Copper Busbar / 50x6 mm Galvanized steel tape to Earth Pit for Earth pits interconnection. Note: this include transportation of all associated materials used for welding.Exothermic material to be used from NABL/ILAC tested . (Inspection by Representative of Sr.DSTE/CKP)	Numbers	3.00	2360.00	7080.00
51	51	Transportation and fixing of Junction type Route Indicator with Route arm on the erected signal post including termination of cables, painting lettering as required. (a) Route Indicator with Route arm Two way.	Numbers	2.00	950.00	1900.00
52	52	Transportation and fixing of following types of C.T. Box (Aluminium/Wago type) and termination of cable as per details of jointing schedule approved by the Railway Engineers. (a) 20 pair C.T. Box/Krone type DP Box.	Numbers	4.00	916.00	3664.00
53	53	Installation of Class B & C Surge protection Device (SPD) -Type I & II. All fitting material to be provided by the contractor.	Set	1.00	443.00	443.00
54	54	Fabrication of stand/rack, installation, testing & commissioning of Earth Leakage Detector (ELD)- 8 channels as per Specification No. RDSO/SPN/ 256/2002 or latest.	Set	1.00	5947.00	5947.00
55	55	Supply & Transportation and fixing of PVC Conduit pipe/channel/casing capping on wall or structure with drawls of Telecom/Power/Data cable/10Sq./16Sq./35Sq. multi strand cable with proper finishing. This includes supply of fixing materials including flexible pipe/bend etc. as required during course of execution. Note: The cutting to be filled and finished with cement/ concrete, and plastering. The wire will be laid in suitable PVC pipe and this work is to be executed as per directions of Railway engineer at site. (Inspection by Representative of Sr.DSTE/CKP)	Metre	620.00	15.00	9300.00
					<b>Total</b>	<b>6658686.00</b>
<b>Schedule</b> Schedule B-Material Supply-SOR (Signalling Work)						



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Item- 1 Details of Schedule 'B' are given Below: -						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supply of Negative Bus Bar of size 20 mm X 5 mm made of copper bar with brass screw & washer minimum length of one piece is to be 0.3 m. The bar and screw should be nickel plated. (Inspection by Representative of Sr.DSTE/CKP)	Metre	80.00	975.00	78000.00
2	02	Supply of Thermo-shrink jointing (TSF) kits for jointing underground Quad cable of size 0.9mm/1.4mm diameter conductor for straight/condenser/Y-(Derivation)/Loading Coil/Transformer joints as per Specification No. IRS-TC-77/2012 Rev.3 with Amd. 3.0 or latest. (Inspection by RDSO)	Numbers	10.00	3404.00	34040.00
3	03	Supply of 25 mm 6 Way PBT Terminal block as per Specification No. IRS:S-75/2006 Rev. 2.0 or latest as per IRS Drg. No. SA-23756 Alt-3 or its latest amendments. (Inspection by RDSO)	Numbers	360.00	322.00	115920.00
4	04	Supply of Non-Deteriorating type of low voltage electric fuse for Railway signalling use, fuse with cylindrical cap without indication, cylindrical fuse as per Specification No. IRS:S-78/2006 or latest.(i) ND Fuse Cylindrical Type 2 Amp. (Inspection by RDSO)	Numbers	100.00	48.00	4800.00
5	05	Supply of Non-Deteriorating type of low voltage electric fuse for Railway signalling use, fuse with cylindrical cap without indication, cylindrical fuse as per Specification No. IRS:S-78/2006 or latest. (i) ND Fuse Cylindrical Type 4/6 Amp. (Inspection by RDSO)	Numbers	130.00	55.00	7150.00
6	06	Supply of Non-Deteriorating type of low voltage electric fuse for Railway signalling use, fuse with cylindrical cap without indication, cylindrical fuse as per Specification No. IRS:S-78/2006 or latest.(i) ND Fuse Cylindrical Type 16 Amp. (Inspection by RDSO)	Numbers	40.00	57.00	2280.00
7	07	Supply of PBT fuse block as per Specification No. IRS:S-75/2006 Rev. 2.0 or latest as per IRS drawing No. . SA: 23748 with alt 4 or its latest amendments. (Inspection by RDSO)	Numbers	270.00	109.00	29430.00
8	08	Supply of PVC Insulated Single core Multistrand, unsheathed with plain annealed/tinned copper conductor 16/0.2 mm diameter as per Specification No. IRS:S-76/89 or latest. Wire Colours shall be decided by engineer-in-Charge. Note: The requirement of plain/tinned copper to be decided by the Engineer-in-charge. (Inspection by RDSO)	Kilometre	6.00	7832.00	46992.00
9	09	Supply of PVC Insulated single core cable multistrand, unsheathed with plain annealed /tinned copper conductor 3/0.75 mm diameter as per Specification No. IRS:S-76/89 or latest. Wire Colours shall be decided by engineer-in-Charge. Note: The requirement of plain/tinned copper to be decided by the Engineer-in-charge. (Inspection by RDSO)	Kilometre	1.00	21278.00	21278.00
10	10	Supply of PVC Insulated single core cable multistrand, unsheathed with plain annealed/tinned copper conductor 7/0.75 mm diameter as per Specification No. IRS:S-76/89 or latest. Wire Colours shall be decided by engineer-in-Charge. Note: The requirement of plain/tinned copper to be decided by the Engineer-in-charge. (Inspection by RDSO)	Kilometre	1.00	43745.00	43745.00

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11	11	Supply of PVC insulated 10 Sq. mm Single core Multi strands copper conductor as per Specification No. IRS:S-76/89 or latest conforming to IS: 694/2010 or latest. Wire Colours shall be decided by Engineer-in-Charge. (Inspection by Representative of Sr.DSTE/CKP)	Metre	280.00	109.00	30520.00
12	12	Supply of PVC insulated 35 Sq. mm Single core Multi-strands copper conductor as per Specification No. IRS:S-76/89 or latest conforming to IS: 694/2010 or latest. Wire Colours shall be decided by Engineer-in-Charge. (Inspection by Representative of Sr.DSTE/CKP)	Metre	160.00	254.00	40640.00
13	13	Supply of PVC insulated 16 Sq. mm Single core Multi-strands copper conductor as per Specification No. IRS:S-76/89 or latest conforming to IS: 694/2010 or latest. Wire Colours shall be decided by Engineer-in-Charge. (Inspection by Representative of Sr.DSTE/CKP)	Metre	180.00	149.00	26820.00
14	14	Supply of Steel Apparatus case Full height as per Drawing No. SK/Drg./OL/SER /198 or latest with E type lock . E-type lock & their key ward No. will be decided by site engineer as per Specification No. IRS: S-10/78 with Rev. 8 or latest. Supply of Hylam sheets is not covered under this scope. This includes supply of one key & handle for each four Apparatus Case or minimum one. (Inspection by representative of Sr. DSTE/CKP)	Numbers	15.00	17430.00	261450.00
15	15	Supply of Key Lock - 'E' Type with key as per RDSO Drg. No. SA-3376/M, Alt-2(Lock) or latest & SA-3377 (Key) or latest, and Specification No. IRS: S 30-64 Rev 0 or latest and IRS S-10 or latest. Ward No. shall be as per instruction of Railway. (Inspection by RDSO)	Numbers	3.00	1520.00	4560.00
16	16	Supply of Composite/Q series Relay Rack as per Drawing No. SK/DRG/OL/SER/192, Sheet 1 and 2 or latest and must be powder coated of stone grey colour. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	20469.00	40938.00
17	17	Supply of MS Cable termination Racks (CTR) as per Drawing No. SK/DRG/OL /SER/197 or latest and must be powder coated of stone grey colour. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	15000.00	30000.00
18	18	Supply of metallic Colour Light Signal, Multi Unit type Two Aspect complete but without lamp holder, lenses & transformers as per IRS:S-26/64 or latest and RDSO Drawing No. SA23003 A/M (Adv.) or latest. Mounting socket including its material shall be as per RDSO Drawing No. S 23005/M or latest for mounting on 140 mm outside diameter post. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	16711.00	33422.00
19	19	Supply of dependent/position light type Shunt Signal complete as per Drawing No. SA-23840(Adv) Alt.2 or latest, S-23023 or latest with offset bracket to Drg. No. SA23080 Adv. Alt. 1 or lates to suit 140 mm. dia post complete as per Specification No. IRS:S-10/78 Rev. 8 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	6508.00	13016.00
20	20	Supply of Metallic A Marker/Calling On signal unit/Guard Repeater unit with bracket & fixing accessories as per Drawing No: SA 24351 (Adv.) Alt 1.0 or latest, S: 23463 or latest and Specification No. IRS-S-10/78 or latest and IRS:S-26/64 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	3907.00	7814.00

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21	21	Supply of 140 mm diameter Cast Iron (Grade-20) Signal base as per Drawing No. S-2011/M and as per Specification No. IRS:S-10/78 & IS:210 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	6380.00	12760.00
22	22	Supply of 4.5 meter Tubular (Seamless) Post for Colour Light Signal as per Specification No. IRS:S-6/81 or latest to suit 140mm dia. base. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	11465.00	22930.00
23	23	Supply of 4.5 meter Ladder for Colour Light Signal as per RDSO Drawing No. SA-23153 (Adv.) or latest and Stage with Ladder foundation as per Drawing No. S-2033/M (IRS) or latest & as per Specification No. IRS:S-10/78 & IS:210 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	10030.00	20060.00
24	24	Supply of Earth Electrode as per Drawing No. 19-D6 of SEM-2021 or latest. GI pipe confirming to IS:1239 or latest of 3.17 mm thickness, minimum 2.5 m long, 50.8 mm diameter, 4.76 mm diameter drilled holes staggered at distance of 152.4 mm. (Inspection by Representative of Sr.DSTE/CKP)	Set	17.00	2712.00	46104.00
25	25	Supply of 35 mm x 6 mm thick MS Flat Plate Strip as per IS: 226-1975 or latest for earth connection to Signal post, L/Box etc. (Inspection by Representative of Sr.DSTE/CKP)	Metre	68.00	166.00	11288.00
26	26	Supply & Fixing of Main equipotential bus bar (MEBB) of size 300 x 25 x 6 mm Cu equipotential Bus Bar. Note: MEEB to be fixed inside the equipment room with two 60mm insulation studs as per instruction of Site Engineer. The 60mm insulation studs have also to be supplied with MEEB. MEEB to SPD distance should not be more than 0.5 mtrs. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	274.00	548.00
27	27	Supply & Fixing of Sub equipotential bus bar (SEBB) of size 150x 25 x 6 mm Cu equipotential Bus Bar. Note: SEEB to be fixed inside the equipment room with two 60mm insulation studs as per instruction of Site Engineer. The 60mm insulation studs have also to be supplied with SEEB. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	3.00	137.00	411.00
28	28	Supply of 25mm x 2 mm bare copper strips or 8mm round solid copper. (Inspection by Representative of Sr.DSTE/CKP)	Metre	60.00	1258.00	75480.00
29	29	Supply of 50 mm x 6 mm Galvanised steel tape for interconnecting the earth pits. (Inspection by Representative of Sr.DSTE/CKP)	Metre	180.00	557.00	100260.00
30	30	Supply and installation of mould and Exothermic powder for 50 mm x 6 mm Galvanised steel tape to 200x25x6 mm copper busbar(40 nos per set). To weld from one earth pit to other earth pit and as per requirement and direction of Site engineer in all over stn in CKP . NB: Exothermic material NABL/ILAC tested to be used. (Inspection by Representative of Sr.DSTE/CKP)	Set	1.00	28280.00	28280.00

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31	31	Supply & backfill around grounding electrode either in trench or augured hole of Earth Enhancement material for covering 50 mm x 6 mm Galvanised steel tape as per RDSO TAN No. STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest. Note: Materials to be used in Routing path of 50 mm x 6 mm Galvanised steel tape (from one earth pit to another earth pit) Approx 30 KG of earth enhancement compound for every 3 mtrs of Length. material shall be tested & confirm to the requirement of IEC 62561-7 standard as per RDSO/SPN/197 V1.0. (Inspection by Representative of Sr.DSTE/CKP)	Kg	1800.00	148.00	266400.00
32	32	Supply of Polymeric Positive Temperature coefficient self-Restoring Type fuse (PPTC) of 24-110V, 2-3 Amps capacity Fuse should have an insulating coating of flame retardant epoxy to meet UL-94, V0 requirement working temperature range 40 Degree Celsius to 85 Degree Celsius and leads to be tin plated copper. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	40.00	12.00	480.00
33	33	Supply of Polymeric Positive Temperature coefficient self-Restoring Type fuse (PPTC) of 24-110 V, 4 Amps capacity Fuse should have an insulating coating of flame retardant epoxy to meet UL-94, V0 requirement working temperature range 40 Degree Celsius to 85 Degree Celsius and leads to be tin plated copper. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	40.00	12.00	480.00
34	34	Supply of Track lead Junction Box (TLJB) made of fibre reinforced plastic as per RDSO drawing No. SA 20101/M (IRS) or SI-10272 (FRP) and as per Specification No. RDSO/SPN/151/1997 or latest with bush & ARA terminals conforming to IRS: S-75/91 or latest. 1 way 60mm PBT terminals, 18" GI pipe of adequate size & MS angles 1500x50x50 mm3 are also to be supplied by the contractor. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	8.00	1430.00	11440.00
35	35	Supply of 8 SWG (4.064mm Diameter) GI wire for Track Circuit Bonding or for other application as per Specification No.IS:279/81 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Kg	100.00	89.00	8900.00
36	36	Supply of Insulated galvanized flexible stranded wire rope 7x7 construction, 19 mm circumference, Tensile Strength 125-140 Kg per square mm as per Specification No. IRS:S-3/61 or latest wrapped with Extruded jacket of PVC, thickness 2 mm. Wire colour will be decided by Engineer in charge. (Inspection by Representative of Sr.DSTE/CKP)	Kg	100.00	207.00	20700.00
37	37	Supply of 30 mm length Channel Pins, single groove for bonding Track Circuiting wires of 7mm dia. for 4mm dia. bond wire to RDSO Drawing No. S-69/M or latest as per Specification No. IRS: S17-75 Rev 3 & IS: 1573-70 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	650.00	2.00	1300.00
38	38	Supply of Earth Leakage Detector (ELD) - 8 channels as per Specification No. RDSO/SPN/256/2002 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Set	1.00	95718.00	95718.00

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39	39	Supply of Electric key transmitter (EKT)/Rotary key transmitter (RKT) as per Specification No. IRS:S-21/2001 Rev 1.0 or latest & Drawing No.SA-22601 or latest with the keys and wards nos. will be per instructions given by site Engineer in charge. (Inspection by RDSO)	Numbers	2.00	6523.00	13046.00
40	40	Supply of Sulphuric Acid solution having nominal specific Gravity 1210. (Inspection by Representative of Sr.DSTE/CKP)	Kg	40.00	46.00	1840.00
41	41	Supply of 1 copy of SWR in English finally approved by railways along with spiral binding. This has to be done after CRS sanction has been obtained. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	6.00	522.00	3132.00
42	42	Supply of 1 copy of SWR in Hindi/Regional Language of that station finally approved by railways along with spiral binding. This has to be done after CRS sanction has been obtained. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	6.00	522.00	3132.00
43	43	Supply of Non-metallic (FRP) 2 way Junction Route Indicator Unit Without Lens & Holder as per Specification No. RDSO/SPN/194/2006 Rev.2.0 or latest as per RDSO Drawing No. SA 23402 or latest suitable for LED signal lighting unit as per IRS:S-66/84 Amd. 1 or latest. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	2.00	36663.00	73326.00
44	44	Supply of 20 Pair CT box made of 16 SWG CRC sheet with disconnection and reconnection (wago type). The CT Box should be grey colour powder coated with terminal, washer, nut & bolt should be of brass. There shall also be locking arrangement. (Inspection by Representative of Sr.DSTE/CKP)	Numbers	4.00	3599.00	14396.00
					<b>Total</b>	<b>1705226.00</b>
<b>Schedule</b> Schedule C-Execution (Telecom Work)						
<b>Item- 1</b> Details of Schedule 'C' are given Below: -						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks, bushes, ballast & reconditioning etc., including bailing out water and disposal of extra soil including back filling with excavated earth and ramming of trenches after cable laying for the following depths and widths as specified in Technical Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER or any other latest guidelines. Note: In case, trenches are other than prescribed depth & width, Proportionate payment shall be released. (a) Depth 1.2 meter, Width 0.5 meter.	Kilometre	2.00	95893.00	191786.00

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2	02	Laying of S&T Cables (Signal/Quad/Power) in the excavated trench to Drawing No. CON/SK/T/5 or latest. Supply and transportation of 'U' clamps, anchoring of cable at every 10 metres interval with 'U' clamp on trench to Drawing No. CSTE/CON /CABLES/81 or latest. Supply, transportation, and placing of cable demarcating led belt to Drawing No. CON/SK/T/6 or latest punched at an interval of 30 metres and wrapped round each cable throughout the cable route and also at every track/Road/ platform crossing as above specified in Technical Circular No. 2/1988 & 01/2010 issued by CSTE/SER or as per latest guidelines and guarding the cables. Collecting empty drums with left over cable and to be returned to the stores of stock holder. Note: Cables will be meggered before & after its laying by contractor under supervision of Railway representative & Contractor will submit their reports.	Kilometre	3.00	20239.00	60717.00
3	03	Transportation including loading/unloading of Optical Fibre Cable along with HDPE pipe from the stores of SSE/Store or from any store of SE Railway to the site with care laying of HDPE pipe & blowing of OFC in it as per procedure and returning empty cable drums with or without left over cable to the stores of SSE/Store. It also includes supply and placing of warning & Detection tape orange colour of 100 mm wide printed in black as "CAUTION OFC CABLE" and laid throughout the trench as directed by the Representative of Railway. Note: OTDR of cables will be done before & after its laying by contractor under supervision of Railway representative & contractor will submit their reports.	Kilometre	2.00	34734.00	69468.00
4	04	Transportation of cables in rolls with or without wooden drums (S&T Cables) from concerned store to the site of works. Note: The unit Drum-KM indicates Drum X length of cable in that drum. It doesn't have any significance over the distance it has to be carried for execution of the work.	Drum-Km	5.00	2328.00	11640.00
5	05	Cement Concrete of proportion 1:3:6 (Cement: Sand: Stone chips of 25mm nominal size) for miscellaneous works. It includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). Note: All materials required for foundation are to be supplied by the contractor.	cum	6.00	3647.00	21882.00

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6	06	Execution of Full Apparatus Case with earth excavation for pit, concrete foundation, surrounding earth work, erection and installation as per Drawing No. Con/SK/T/8 or latest and wiring to be done as per SEM Drawing No.19-D8 or as per direction of site engineer. Supply and fixing of Hylam sheet strip of appropriate size of 3 mm or 6 mm as required with hole for fixing of terminals, fuse blocks, relay and other accessories for signal/track circuit, termination of cable with number embossed ferrules, bunching of cables with PVC tape, proper soldering of cable armour with earth catenary wire, earthing of cable armour as required. Writing & terminal description including Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anticorrosive paint and subsequent two coats of Aluminium paint outside and red oxide inside and lettering etc. This also includes transportation of 25 mm/12mm Hylam sheet for shelf or as required and also includes minor modification in L/Boxes as per site requirement. The contractor shall supply 4 no. of foundation nuts & bolts of size 22 mm dia. x 450 mm long with 2 flat spring washers, with each nut & bolts, sand for filling up cable pit inside the apparatus case including plaster and bolts, nuts, screws, MS Clamps for fixing equipment/cable. Note: - Part payment shall be released after completion of- (i) Foundation- 40%, (ii) Erection - 10%, (iii) Wiring, earthing, testing - 20%, (iv) Painting, writings - 10%, (v) Plastering, sand filling & etc. - 10%, (vi) Commissioning - 10%.	Numbers	6.00	9147.00	54882.00
7	07	Supply, transportation and installation of RCC joint chamber with two piece top cover and bottom cover with holes for drainage and cable entry, as per Drawing No. RDSO/TCDO/COP-21 or latest. This includes trenching for jointing pit of size min 1.5 m X 1.5 m X 1.2m for all types of soils, back filling and ramming of the pit after placing the joint closure and cable loop in the chamber including dry sand upto 600mm height without causing any damage to same and consolidation of soil as well as disposal of excess soil. (Inspection by representative of Sr. DSTE/CKP)	Numbers	4.00	4811.00	19244.00

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8	08	HDD: In case of short stretches (less than 100 m in single stretch) Micro Tunnelling through Horizontal directional drilling (HDD) machine, preparation of sites, boring and laying of HDPE pipes of size (Outer/Inner diameter= 50mm/42mm) for crossing of S&T cable through HDPE pipe at bridges/culverts/track crossing/pucca road crossing. Boring trench shall be minimum 3 (three) meter below the surface/river bed and minimum 1 m at track/road/pucca road crossing area etc. This includes supply of permanently lubricated HDPE telecom ducts of equal length as per Specification No. RDSO/SPN/TC /45/2013 REVISION 2.0 with latest amendments. For each HDPE duct the following items are to be supplied as per requirement (a) End plug, (b) Cable sealing plugs, (c) Plastic coupler slip fit/push fit type & (d) End plugs to be provided along with drum. In case the site doesn't allow to perform as per schedule, written approval must be obtained from at least site incharge officer. Note: The boring profile should be recorded and submitted for verification of depth and length of boring. (a) 2 HDPE pipe.	Metre	120.00	1572.00	188640.00
9	09	Installation of Single Maintenance Free Earth pit as per RDSO Drawing No. SDO / RDSO/ E&B/001 which includes the following, a)Digging/Auguring/ Boring of single earth pit of 100mm to 125mm dia. to the depth of approx. 3 meter. b) Insertion of 3.0 meter electrode and penetrating it minimum 150 mm by pushing gently with sledge hammer where the natural soil is assumed. (c) Filling of earth pit with Earth Enhancement Compound (EEC) in slurry form and backfilling. (d) Carrying out exothermic weld connection on single earth electrode to a copper tape of 200 x 25 x 6 mm. (e) Carrying out exothermic weld connection on the copper tape of 200 x 25 x 6 mm on Earth Electrode for connecting two 35 Sq. mm cables for redundancy. (f) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms, which includes graphite modules, clamps, weld metal powders etc. (g) The dimension of the chamber will be of 300 x 300 x 300 mm (inside dimension) of RCC with 50mm thick and fine finish, Inspection chamber should be as per IEC 62561-5 or latest. The top RCC cover size shall be 400 mm X 400 mm X 50mm. The date of testing and earth resistance value shall be written on the cover with black base with yellow paint or as per instruction of site engineer.	Set	4.00	6098.00	24392.00



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10	10	Excavation of trench in all kinds of soils including soft rocky area and clearing of roots of trees, rocks etc. to a depth of 1 metre and width 0.3 mtr. Track/ Pucca road/Platform crossing/ Level crossing as per SEM Drawing No.15-D5 including supply, transportation and laying of DWC pipes (full) with collar(for jointing pipes) Inner diameter/Outer diameter:103mm/120mm to Specification No.14830 (Part-2):2001 as per SEM Drawing No. 15-D4 and drawing of cable through DWC pipes with collar(for jointing pipes) including back filling and ramming after cable laying as specified in Tech. Circular No. 2 of 1988 & 01/2010 issued by CSTE/SER for S&T Cables or any latest guidelines. This includes repairing and plastering of Platform/Pucca road after cable laying.	Metre	50.00	691.00	34550.00
11	11	Supply, transportation and fixing of RCC Cable Route Marker as per SEM drawing No. 15-D1 or latest. (Inspection by representative of Sr. DSTE/CKP)	Numbers	40.00	576.00	23040.00
					<b>Total</b>	<b>700241.00</b>
<b>Schedule</b>	Schedule D-Material Supply (Telecom Work)					
<b>Item- 1</b>	Details of Schedule 'D' are given Below: -					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	01	Supply of Steel Apparatus case Full height as per Drawing No. SK/Drg./OL/SER /198 or latest with E type lock . E-type lock & their key ward No. will be decided by site engineer as per Specification No. IRS: S-10/78 with Rev. 8 or latest. Supply of Hylam sheets is not covered under this scope. This includes supply of one key & handle for each four Apparatus Case or minimum one. (Inspection by representative of Sr. DSTE/CKP)	Numbers	6.00	17430.00	104580.00
2	02	Supply of 25 mm 6 Way PBT Terminal block as per Specification No. IRS:S-75/2006 Rev. 2.0 or latest as per IRS Drg. No. SA-23756 Alt-3 or its latest amendments. (Inspection by RDSO)	Numbers	30.00	322.00	9660.00
3	03	Supply of 24 Fiber OFC Joint Closure as per Specification No. RDSO/SPN/TC/68/ 2014 Rev 1.0 or latest complete with all accessories including sealing with mechanical clamp facility. (Inspection by representative of Sr. DSTE/CKP)	Numbers	4.00	1868.00	7472.00
4	04	Supply of HDPE pipe as per Specification No. RDSO/SPN/TC/45/2013 Rev-2.0 or latest with OD/ID of size 40mm/33mm with suitable couplers, plugs, end caps, spacer, T band etc. as required during execution at the site. (Inspection by representative of Sr. DSTE/CKP)Supply of HDPE pipe as per Specification No. RDSO/SPN/TC/45/2013 Rev-2.0 or latest with OD/ID of size 40mm/33mm with suitable couplers, plugs, end caps, spacer, T band etc. as required during execution at the site. (Inspection by representative of Sr. DSTE/CKP)	Kilometre	2.00	56520.00	113040.00

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5	05	Supply of basic material to construct unit Maintenance Free Earth for Single Earth consisting as per Spec. No. RDSO/SPN/197/2016 Ver 1.0 or latest, bonding connections drawing no. SDO/ RDSO/E&B/002 or latest are as under, (a) Copper bonded steel electrodes of 3.0 m long, 17.0 mm diameter with copper bonding thickness of min 250 micron and UL listed and marked -1 No. (b) Earth Enhancement compound supplied in sealed bags of min 30-35 Kg.- 1 No. (c ) Copper Strip of 200mm x 25mm x 6mm to exothermically welded to Earth electrode- 1 No.(d) Copper Strip of 300mm x 25mm x 6mm (MEEB) - 1 No.(e) Copper Strip of 150mm x 25mm x 6mm (SEEB)- 1 No. It also includes supply of (i) 35 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting Main Earth Electrode to MEEB in the equipment room in duplicate.-10 meter (ii) 16 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting MEEB to SEEB and SPDs to MEEB.-10 meter (iii) 10 Sq. mm Multi-strand Single Core PVC insulated Copper Connector as per IS:694 for connecting various equipment to SEEB- 10 meter. (Inspection by RDSO)	Set	4.00	17719.00	70876.00
					Total	305628.00
Schedule	Schedule A1-Execution (EI Alteration Work)					
Item- 1	Details of Schedule 'A1' are given Below: -					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Alteration /Modification in Existing EI Hot stand by system.	Per function	56.00	72562.39	4063493.84
2	02	Testing & commissioning of existing E.I installation along with additional alteration carried out in connection with RE modification on a whole shall be carried out by the engineer in charge of work . Testing shall be carried out to ensure compliance of SEM, RE Manual, General & Subsidiary rules, Block Working manual & adherence to specification of tenders including LC Gate. (Small Stn.2/3 Lines)	Station	1.00	111632.87	111632.87
3	03	Modification/Upgradation, wiring, validation & alteration of Data Logger/RTU of Digital & Analog Input including NMDL software etc. as per site engineer. The necessary wire from relay to tag block & from tag block to data logger, tag block, terminal, wiring material etc. required for this work to be supplied by contractor. Wire to be procured from RDSO approved firms. NOTE; modification also to be made in COA,Control cum command centre, TMS etc.	Set	1.00	46855.00	46855.00
					Total	4221981.71
Schedule	Schedule A2-Execution-Non-SOR (Signalling Work)					
Item- 1	Details of Schedule 'A2' are given Below: -					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Installation and commissioning of Isolating spark Gap (ISG) for lightning equi-potential bonding of different earth grids. For installation & commissioning , required necessary materials to be supplied by the contractor.	Job	1.00	5000.00	5000.00
2	02	Modificaiton to the application logic of VDU (Visual Display unit) & MT (Maintenance Terminal).	Set	4.00	137370.00	549480.00
3	03	Installation of Single Maintenance Free Earth pit as per RDSO Drawing No. SDO /RDSO/ E&B/001	Set	12.00	3353.90	40246.80

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which includes the following,

a) Digging/Auguring/Boring of single earth pit of 100mm to 125mm dia. to the depth of approx. 3 meter. b) Insertion of 3.0 meter electrode and penetrating it minimum 150 mm by pushing gently with sledge hammer where the natural soil is assumed. (c) Filling of earth pit with Earth Enhancement Compound (EEC) in slurry form and backfilling. (d) Carrying out exothermic weld connection on single earth electrode to a copper tape of 200 x 25 x 6 mm. (e) Carrying out exothermic weld connection on the copper tape of 200 x 25 x 6 mm on Earth Electrode for connecting 4 X 35 Sq. mm cables for redundancy. (f) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms, which includes graphite modules, clamps, weld metal powders etc. (g) The dimension of the chamber will be of 300 x 300 x 300 mm (inside dimension) of RCC with 50mm thick and fine finish, Inspection chamber should be as per IEC 62561-5 or latest. The top RCC cover size shall be 400 mm X 400 mm X 50mm. The date of testing and earth resistance value shall be written on the cover with black base with yellow paint or as per instruction of site engineer. Note: Installation should be done as per guidelines given in RDSOTAN No. STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest. (i) All materials used for the installation of the earth system shall be anti-corrosive. The installation of Earthing and Bonding for all S&T installations (EI, PI, RRI, Auto Hut, IBS, LC, Telecom hut etc.) shall be as per Annexure-III (a) or (b) or (c). (ii) The procedure of Exothermic welding, as outlined in Annexure-IV shall be followed. (iii) The OEM shall be responsible for complete supply, installation & commissioning of the Earthing & Bonding system. (iv) The Pre-commissioning checklist shall be followed during installation. This has been reiterated by this office letter no. RDSO SIGO EnB(GEN) /1/2020 dt. 18.07.2024 and also included in guidelines for earthing, bonding, surge and lightning protection issued on 01.01.2025. (v) Perimetric/Ring Earthing diagram should be painted on suitable location on wall as per instruction of Site Engineer. (vi) Work to be executed by OEM & after the installation of Earthing & Bonding system. Warranty of such system shall be 60 months from date of commissioning. (vii) The overall Earth resistance value for the earth connected with MEEB shall be less than 1 ohm. If necessary multiple earth shall be provided in loop to achieve earth resistance less than 1 Ohm. (viii) The distance between two successive earth electrode shall be not less than 3 meter and more than 6 meter. (ix) It is recommended that, multiple earth pits shall be installed around the perimeter of the building. However, at some locations, it may not be possible to form a perimetric earth around the Relay room, Power supply room and Station master room. In such cases, ring earthing arrangements consisting of inter connected multiple earth electrodes may be installed in the available free space as close as possible to the station building. A Sample drawing is attached as Annexure III for reference. (x) Earth pits shall be installed at least one meter away from building

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		wall. (xi) Minimum 20 meter distance should be maintained between electrical and S&T earth. (xii) Sand filling where required and suggested by site Engineer.				
					<b>Total</b>	<b>594726.80</b>
<b>Schedule</b>	Schedule B1-Material Supply-Non-SOR (Signalling Work)					
<b>Item- 1</b>	Details of Schedule 'B1' are given Below: -					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	01	Supply of Isolating spark Gap(ISG) for lightning equi-potential bonding of different earth grids according to IEC 62561 part-3 at 100kA impulse current, IP 68, fire retardant enclosure as per Annexure-A. (Inspection by RDSO)	Numbers	1.00	30000.00	30000.00
2	02	Supply of basic material to construct Maintenance Free Earth for Ring Earth consisting as per Specification No. RDSO/SPN/197/2016 Ver 1.0 or latest, bonding connections drawing no. SDO/RDSO/E&B/001 or latest. (a) Copper bonded steel electrodes of 3.0 m long, 17.0 mm dia. minimum with copper bonding thickness of min 250 micron and UL listed and marked -1 No. (b) Earth Enhancement compound supplied in sealed bags of min 30-35 Kg.- 1 Nos. (c) Copper Strip of 200mm x 25mm x 6mm to exothermically welded to Earth electrode- 1 No. (d) Copper Strip of 300mm x 25mm x 6mm (MEEB) -1 No. (e) Copper Strip of 150mm x 25mm x 6mm (SEEB)- 1 No. NB: Materials should be supplied as per RDSO TAN No. STS/E/TAN/3006, Ver.3.1, Dated: 25.06.2025 or latest. (Inspection by RDSO)	Set	12.00	8071.68	96860.16
					<b>Total</b>	<b>126860.16</b>
<b>Schedule</b>	Schedule B2-Execution and Supply (Automatic Fire Detection & Alarm System work)					
<b>Item- 1</b>	Details of Schedule 'B2' are given Below: -					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>

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1	01	Supply, Installation, Testing & Commissioning of Networkable Single loop addressable Fire alarm Control panel expandable upto 2 loops & interface with GSM/LTE module working as per RDSO/SPN/217/2025 ver-3.1 or latest. The control panel shall be networkable to Zonal /Divisional Headquarters preferably over TCP IP/OFC media converter and shall have clock synchronization facility. This schedule includes supply of TCP IP converter/ Networking card/OFC media converter. The control panel shall have provision of Graphical software to enable remote monitoring of entire fire detection and alarm system of a station from Head Quarters. The control panel shall be designed to work on power supply of 110V/230V AC as well as on DC battery backup of adequate capacity to work upto 24 hrs. Backup. The Power supplies like batteries and chargers shall be supplied by the contractor. The Control Panel shall have means for the user to visualize and interact with the complete Automatic Fire Detection and Alarm System layout through a user-friendly software executable on a standard Windows based Personal Computer. It shall be possible to download data and extend alarms from Control Panel through suitable ports like RS485/RS232/USB/TCP/IP into a PC/Laptop available with SSE at the installation and remote location (Divisional Control room) operating on Windows platform. The software for downloading and analysing fault data shall be provided & shall be compatible with the latest windows operating system. Detection, actuation, and control system shall have provision for automatic as well as manual operation. The control panel should have provision to connect a GSM/LTE module duly providing compatible SIM with SMS facility on minimum of 5 numbers (users). Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Set	1.00	157054.00	157054.00
2	02	Supply, installation testing & commissioning of Heat and smoke multi sensor with back box with integral short circuit isolator as per specification No. RDSO/SPN/217/2025 ver-3.1 or latest and required to be provided at suitable locations inside the diesel generator room, battery room, ASM room, and other S&T service rooms as directed by the Railway site Engineer. The location of fixing is to be meticulously decided so that full advantage of the system is achieved. Note: Spares cost are also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	9.00	4328.00	38952.00
3	03	Supply, Installation and Testing, commissioning of Addressable and resettable Manual call point with inbuilt fault isolator (open/short circuit in loop) status LED for alarming & standby mode as per specification No. RDSO/SPN/217/2025 ver-3.1 or latest. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	1.00	6161.00	6161.00

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4	04	Supply, Installation, testing and commissioning of laser or high power LED based Aspiration detection unit for AC room with programmable 4 stage alarm generation and with 4 addressable modules. It should have auto cleaning facility in optical chamber, electronic discrimination of particle size or other listed methods or combination thereof. The aspiration system shall also include external power supply unit with battery backup as per OEM. The aspiration type smoke detector should be UL/LPCB/Vds/FM listed/approved and shall comply to specification No. RDSO/SPN/217/2025 ver-3.1 or latest. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Set	1.00	311784.00	311784.00
5	05	Supply, Installation, Testing & Commissioning of UL/LPCB/Vdc listed/approved Pipe made of CPVC with suitable diameter & pipe accessories (couplings, unions, elbows, tees, end caps, capillary tubes, sampling ports, mounting brackets etc.) as per requirement for the Aspiration detection shall comply to RDSO/SPN/217/2025 ver-3.1 or latest. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Metre	50.00	636.00	31800.00
6	06	Supply, Installation, Testing & commissioning of Audio Visual alarm (Hooter and strobe) controlled through addressable control model. It shall be preferably flashing type Red/White colour. It shall be preferably with Piezoelectric type sounder. The sound level shall be preferably adjustable type up to 90 dB at a distance of 1 m as per specification No. RDSO/SPN/217/2025 ver-3.1 or latest. Note: Spares cost are also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	1.00	8943.00	8943.00
7	07	Supply, Installation Testing and commissioning of FRLS/Fire Survival Circuit Integrity Cables of size 2C X 1.5 Sq. mm with all accessories certified by UL/FM/Vdc/LPCB/BRE global or any recognised Lab by GOI for connection of Fire Alarm devices specification No. RDSO/SPN/217/2025 ver-3.1 or latest. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Metre	180.00	169.00	30420.00
8	08	Supply, installation, Testing and Commissioning of Analogue Addressable type Isolator modules device for isolating in case of any fault, complying to the RDSO/SPN/217/2025 ver-3.1 or latest. Inspection by Rep. of Railway Engineer. Spares cost are also included & to be supplied as per RDSO para no. 4.15. Isolator module for Input/Output monitor module to be decided by representative of Sr.DSTE/CKP. Note: Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	1.00	4657.46	4657.46

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9	09	Supply, installation, testing & communication of Linear Heat Sensing (LHS)/Linear Heat Detection (LHD) Interface module with all accessories for integration with main line fire alarm control panel as per RDSO specification No. RDSO/SPN/217 / 2025 ver-3.1 or latest. It should be UL/FM/Vds/LPCB approved/listed. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	1.00	92761.00	92761.00
10	10	Supply, Installation Testing and commissioning of Analogue type Linear Heat Sensing cable/Linear Heat Detector hollow metallic pneumatic tube type with required module to be integrated on main Fire Alarm Panel as per specification No. RDSO/SPN/217 /2025 ver-3.1 or latest. It shall be laid in all cables tray located in power equipment room, relay room & telecom room and should be UL/FM/Vds/LPCB approved/listed. Note: Spare cost is also included & to be supplied as per RDSO para no. 4.15 or latest. Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Metre	90.00	532.00	47880.00
11	11	Supply of CO2 Fire extinguisher 4.5 kg capacity confirming to IS 15683: 2018 or latest with ISI mark provided with all fittings and accessories. (Inspection by RDSO)	Numbers	3.00	4417.00	13251.00
12	12	INTEGRATED SMOKE & HEAT DETECTOR TESTER WITH SMOKE CHAMBER CLEANING FEATURE, (REQUIRED FOR COMMISSIONING, TESTING & MAINTENANCE OF SMOKE & HEAT DETECTOR) CONTAINS FOLLOWING ACCESSORIES: SENSOR UNIT-1, BATTERY ROD-1, INJECTOR1, MIST LIQUID-1, CHARGER-1, CONNECT ROD-4. (Warranty Period: Up to 24 months from the date of delivery.) (Inspection by RDSO)	Numbers	1.00	96718.00	96718.00
13	13	Supply of Smoke Detectors Tester Spray Solo A10S Canned Smoke Detector Tester 250 ml Product Code: Solo A10S, UL certified. (Inspection by RDSO)	Numbers	2.00	5360.00	10720.00
14	14	Supply of Loop Card (As per RDSO Specification No: RDSO/SPN/217/2025 ver-3.1 or latest. Note: Material to be supplied by RDSO approved vendor. (Inspection by RDSO)	Numbers	1.00	18924.84	18924.84
					<b>Total</b>	<b>870026.30</b>

**Schedule** Schedule B3-Material Supply (Store)

**Item- 1** Details of Schedule 'B3' are given Below: -

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supply & installation of 'C' class surge protection arrangement at feed end DC Track Ckt Specn no. As follows: - voltage 230 V AC rated voltage 350V AC DIS. CAP 10KA TO 20 KA TIME 100 MILI second protection 1.2V degree protection IP.20 TEC-61643-1. Inspection: by consignee. (Inspection by representative of Sr.DSTE/CKP)	Numbers	4.00	1346.00	5384.00

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2	02	Supply of Class B & C Surge protection Device (SPD) -Type I & II with Visual Indication and Potential free contact to remote monitoring as per Specification No. RDSO/SPN/165 /2023 Ver 4.0 or latest and IEC standard 61643 or latest and IEC 62304-5 or latest for Single phase 230V AC application with handling Lightning surges of 10/350 microseconds and Switching surges of 8/20 microseconds .One Set consists of 3 nos. of SPD (2 No. of B Class (L-N, N-E) and one no. of C Class (L-N) all enclosed in a Box with KEMA or VDE certified as per latest IEC 61643-11-2011 Standard or latest. Class B & C Surge protection device required with Three modules only. (Inspection by representative of Sr.DSTE/CKP)	Set	1.00	6007.00	6007.00
3	03	Supply of low voltage Glass Fuse of size 5x20 mm having rating of 250 mA/400mA/ 630mA/ 1A/1.6A/2A/4A/6A/10A/16A or decided by Engineer in charge. Make: Nandi, Reliance, CEI or better. (Inspection by representative of Sr.DSTE/CKP)	Numbers	40.00	3.00	120.00
4	04	Supply & transportation of SMPS based Integrated Power Supply System (Mini IPS for LC gate) as per Specification No. RDSO /SPN /165/2023 Ver. 4.0, Amdt.1 or latest and conforming to SE Railway Drawing No.SK/DRG/OL/SER/237 dated 16.09.2011 along with 2V/120 AH Low maintenance Lead Acid (LMLA) Battery Bank with complete accessories required for installation of IPS Cables: i) Between IPS System to ASM Panel-12 Core x 1.5 sq. mm = 35 mtrs, ii) System to Battery Bank-10 sq. mm =25 mtrs. Tools & Spare: It is to be supplied as per Annexure I & IV of RDSO specification. (Inspection by RDSO)	Set	1.00	883041.00	883041.00
5	05	Supply and Installation of Lightening Protection System Class A type, detail as follows- (1) Lightening arrester technology: Advance Early Steamer Emission or Franklin Rod type. Material: High current discharge stainless steel. International standards: NFC 17- 102. (2) Mast material: FRP pipe and high-grade aluminium. Dimension: 50mm. length: 2 metres FRP pipe and 2 metres high grade aluminium mast. (3) Down conduct cable: PVC insulated copper cable. Dimension: 50 Sq. mm, length: 75mtrs (per set) Lightning strike counter number of counts: 6 digits. Current sensitivity: 1KA to 200 KA, 8/20 & 10/350 micro/Sec. induction Shunt: 0.5 micro. (4) Two (02) No. of maintenance Free Earth with all required consisting as per Specication No. RDSO/SPN/197/2016 Ver 1.0 or latest with all required copper cables and strips.Installation of Class A type Lightening protection should be as per the TAN no:- STS/E/TAN/3006, version- 3.0 ; dated:- 08.01.2025 (TAN Specs attached as Annexure.) Accepted Offer: Make- PRAGATI or Similar. (Inspection by representative of Sr.DSTE/CKP)	Set	1.00	130390.00	130390.00
<b>Total</b>						<b>1024942.00</b>

**4. ELIGIBILITY CONDITIONS**

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less, where V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure -VI B, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Format of Annexure VI B is attached with document tab for reference.	No	No	Allowed (Mandatory)
1.1	Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.	No	No	Not Allowed
1.2	The balance sheet and all other financial documents attested/certified by CAs to substantiate fulfilment of Financial Eligibility Criteria should be with UDIN (Unique Document Identification Number), failing which the offer is likely to be rejected without any further reference.	No	No	Not Allowed

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>(a)The tenderer must have successfully completed or substantially completed any one of the following categories of work(s)during last 07 years ending last day of month previous to the one in which tender is invited:Three similar works each costing not less than the amount equal to 30% of advertised value of the tender or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender,or One similar work costing not less than the amount equal to 60% of advertised value of the tender.b(1)In case of tenders for composite works(e.g.works involving more than one distinct component, such as Civil Engineering works, S&amp;T works, Electrical works, OHE works etc. and in the case of major bridges-substructure, superstructure etc),tenderer must have successfully completed or substantially completed any one of the following categories of work(s)during last07(seven)years, ending last day of month previous to the one in which tender is invited:(i)Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or(ii)Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or(iii)One similar work each costing not less than the amount equal to60% of advertised value of each component of tender. Note for b(1):Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components.(b) (2) In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity.(b)(3)To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause7of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause7of the Standard General Conditions of Contract or jointly i.e, partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing. However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s),and shall be submitted along with the offer for considering subletting of that scope of work towards fulfilment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows: The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract. Note: for subletting of work costing up to Rs 50lakh,no previous work experience of subcontractor shall be asked for by the Railway. In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s)fulfilling the requirements as per clause7of the IRSGCC,with prior approval of Chief Engineer in writing.</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. 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	Not Allowed

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1.1.1	<p>Explanation for Eligibility Criteria- 1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials 4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work. 5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet) of GCC JULY 2022, the same shall be considered for the purpose of fulfillment of credentials. 6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility. 7. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of <math>0.3 \times 0.2 \times \text{value of the work done in the previous entity}</math>. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.</p>	No	No	Not Allowed
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1.1.2	8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm(e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.9. In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc. 10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners. 11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value. 13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm. 15. In case company A is merged with company B, then company B would get the credentials of company A also.	No	No	Not Allowed
1.2	Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.	No	No	Not Allowed
1.3	Definition of Similar Work :-Any of the Following works are considered as similar nature of work--->>> (1)Panel Work (Outdoor), (2)Panel Work (Outdoor+Indoor), (3)RRI Work (Outdoor), (4)RRI Work (Indoor), (5)RRI Work (Outdoor+Indoor), (6)EI/SSI Work (Outdoor), (7)EI/SSI Work (Indoor), (8)EI/SSI Work (Outdoor+Indoor).	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 <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.

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8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

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

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

**5. COMPLIANCE**

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	A copy of certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as per Annexure V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure-V(A) shall also be submitted by the each member of a Partnership Firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc. as the case may be. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested/digitally signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.	No	No	Allowed (Mandatory)
2	Payment of Supply Items: - Upon successful delivery at the designated Store, 80% of Agreement value of the supply items shall be paid. Balance 20% shall be released after successful execution/installation/commissioning of the items. (An undertaking regarding acceptance of payment conditions must be submitted at the time of bidding)	No	No	Allowed (Mandatory)
3	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)
4	Mandate form containing PAN No. should be uploaded.	No	No	Allowed (Optional)

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5	<p>The Tenderer must go through the IR GCC- 2022 available in the documents section and submit the Documents regarding constitution of the firm viz.(i) Proprietorship affidavit/declaration, Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust, MOA (Memorandum of Association)/AOA(Articles of Association) of the company; and (ii)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 must be submitted by the Tenderer etc. In absence of such documents the tender shall be treated as having been submitted by the individual who has signed the tender. Besides the above the tenderer also has to submit a declaration regarding blacklisted/ not blacklisted</p>	No	No	Allowed (Optional)
6	<p>As per GCC-2022(i)The tenderer shall clearly specify whether the tender is submitted on his own(Proprietary Firm)or on behalf of a Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust/HUF etc. The tenderer(s)shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be(ii)Following documents shall be submitted by the tenderer: a)Sole Proprietorship Firm:(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 GCC of Contract(b)HUF:(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 GCC.(C)For partnership firm The Tenderer shall submit -(i)A notarized copy of partnership deed.(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 opening of bids, either in their individual capacity or in any firm in which they were / are partners. Concealment /wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.(D)Company registered under Companies Act 2013:(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 able for determination under Clause 62 GCC(e)Registered Society &amp; Registered Trust and LLP-Tenderer shall submit documents as per Clause 14 of GCC-2022.</p>	No	No	Allowed (Mandatory)

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7	(I)If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture /Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.(II)After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm/ Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office file set c. will be taken for consideration of the tender, if no such mention is available in tender offer submitted. (III)A tender from JV / Partnership firm etc. shall be considered only where permissible as per the tender conditions. (IV)The Railway will not be bound by any change in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Allowed (Optional)
8	The tenderer whether his own(Proprietary Firm)or on behalf of a Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust/HUF etc shall also submit all documents as per instructions given in the General Conditions of contract-2022(Second Sheet) wherever applicable. Tenderer are thus advised to read the same before submitting their bids and upload the required documents.	No	No	Allowed (Optional)
9	A declaration regarding engagement/employment/ partnership etc. (or Not) of retired Railway employees should be uploaded by the Tenderer.	No	No	Allowed (Mandatory)
10	The list of personnel/organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.	No	No	Allowed (Mandatory)
11	The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as per Annexure V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure-V(A) shall also be submitted by the each member of a Partnership Firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc. as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents (if any) duly self attested. NOTE- Format of Annexure V is also enclosed in document Tab for references.	No	No	Allowed (Mandatory)
12	For Sole Proprietorship Firm: (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.	No	No	Allowed (Optional)
13	For Partnership Firm :-(i) A notarized copy of partnership deed. (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 opening of bids, either in their individual capacity or in any firm in which they were / are partners. 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	Allowed (Optional)

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14	For Company registered under Companies Act-2013 :- (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. All other documents in terms Para 10 of the Tender Form (Second Sheet of the GCC) (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.	No	No	Allowed (Optional)
15	Registered Society & Registered Trust: (i) A copy of 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) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet of the GCC)	No	No	Allowed (Optional)
16	LLP (Limited Liability Partnership): (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 the Tender Form (Second Sheet of the GCC)	No	No	Allowed (Optional)
17	HUF- 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.	No	No	Allowed (Optional)
18	An undertaking by all partners/members of JV / HUF/proprietor etc. of the partnership firm or JV or HUF or Proprietorship Firm etc. as the case may be 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 opening of bids, either in their individual capacity or in any firm in which they were / are partners/ members/Proprietors/HUF etc. as the case may be is to be submitted.	No	No	Allowed (Mandatory)
19	Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.	No	No	Allowed (Optional)



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20	The tenderer whether sole proprietor / a company or a partnership firm / registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected. A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required. Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.	No	No	Allowed (Optional)
21	The Tender Form(First Sheet) available in the document section must be filled in by the tenderer and uploaded duly filled in.	No	No	Allowed (Mandatory)
22	The Tenderer must go through the Tender Form(Second Sheet) thoroughly and submit all the required documents even if not clearly mentioned in the Conditions or compliances in the Tender document.	Yes	Yes	Not Allowed

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Letter of Credit as Mode of Payment in Works Tender or Service Tender has been introduced as per Rly Board's letter no. 2018/CE-I/CT/9, New Delhi, dtd: 04.06.2018. The details in this regard are given in Special conditions of contract which may be seen by the tenderers before bidding in IREPS Portal.	No	No	Not Allowed
2	Tenderers(s) should read carefully the instructions given in the Tender Form (Second Sheet) of Indian Railway Standard General Conditions of Contract-2022 and submit all the required documents in compliance to the Instructions containing in the said Tender Form (Second Sheet). A copy of the Indian Railway Standard General Conditions of Contract(GCC)- 2022 is available in the document section.	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer are advised to read all the conditions mentioned in the tender document as well as uploaded documents carefully before submitting the bids.	No	No	Not Allowed
2	Doc. Condition: - Condition mentioned in all uploaded documents are applicable and binding in this contract.	No	No	Not Allowed

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3	(I) Rights of the Railway to deal with Tender: The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders. (II) If the tenderer(s) deliberately gives/ give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage. (III) If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway Shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.	No	No	Not Allowed
4	During execution of work by the contractor, if any derailment occurs on the work site due to negligence by the Agency, then contract will be terminated with forfeiture of Security Deposit & Performance Guarantee.	No	No	Not Allowed
5	The Contractor will fill up and update the details of Contracts, Contractual Labour employed by him/her and related details as required by Railway on "Contract Labour Management Portal" or any other portal viz. "www.Shramikkalyan.indianrailways.gov.in" portal.	No	No	Not Allowed
6	Subsequent to the enactment of GST Act 2017, The Para (a) of Clause 6, Part-I of Indian Railways Standard General Conditions of Contract, September 2019, is revised as below 6. Care in Submission of Tenders: (a) (i)Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (a) ii)Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (a)(iii)The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority. (a)(iv)In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority. (b)When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf. (c)The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Not Allowed

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7	All the instructions and Conditions mentioned in all the documents uploaded with the tender are applicable and binding to the contractors in this contract.	No	No	Not Allowed
8	The rates to be quoted are inclusive of GST and all other charges and taxes levied by the state as well as Central Govt. from time to time.	No	No	Not Allowed
9	In order to ensure prompt and proper uploading of details related to LOAs, engaged workmen, wage & other payment details, Railways/Pus etc. shall introduce a special condition in their tender documents of the tenders to be called henceforth (Authority-As per Rly. Bd.'s letter No.2018/CE-I/CT/4, dtd.17.10.2018). The special condition is as under :- 1) Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of Clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration/updation of Portal shall be done as under: (a)Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request. (b)Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour. (c)The contractor once registered on the portal, shall provide details of his Letter of Acceptance (LoA)/Contract Agreement on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request. (d) After approved of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan portal on monthly basis. (e)It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period. 2) While processing payment of any 'On Account Bill' or 'Final bill' or release of 'Advance' or 'Performance Guarantee/Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that " I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till ..... Month ..... Year.	No	No	Not Allowed
10	Indian Railway General Conditions of Contract (GCC)- 2022 updated with correction slips Issued up to date of inviting tender or as otherwise specified in the tender documents is applicable for this tender. Besides the Conditions of GCC- 2022, the Condition mentioned in the all uploaded documents are applicable and binding in this contract.	No	No	Not Allowed
11	After award of the Contract >>>> The Contractor will fill up and update the details of Contracts, Contractual Labour employed by him/her and related details as required by Railway on "Contract Labour Management Portal" e.g. "Shramikkalyan" portal of Indian Railway or any other portal or in Register - as Directed by Engineer-in-Charge for which no extra payments will be made.	No	No	Not Allowed

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12	Clause 55 - B to GCC : Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952:The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees Provident Fund Scheme, 1952;Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and the Rules.	No	No	Not Allowed
13	EPF and ESI registration would be mandatory wherever applicable and documents towards EPF and ESI registration shall be submitted before execution of the agreement failing which contract will be terminated. The labours deployed by the contractor for the entire work should have individual Bank account in their own name. The payment to the labour by the contractor should as far as possible be made through bank accounts of the individual labour as per the latest minimum wages issued from Chief labour commissioner (C).	No	No	Not Allowed
14	The Earnest Money Deposit(EMD) will be known as Bid Security for all purposes henceforth.	No	No	Not Allowed
15	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. The Tenderer are advised to upload the Bid Security in case of BG as per Annexure VIA for BID SECURITY uploaded in document Tab. Also, the original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for submission of bids (i.e. excluding the last date of submission of bids). Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and /or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. NOTE- Bank Guarantee for Bid Security shall be Acting Through DRM/S&T/CKP and Beneficiary shall be PFA/S.E.Railway/Garden Reach/Kolkata.	No	No	Not Allowed
16	In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured: i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender. ii. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days of deadline of submission of bids. iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. vii. The envelope shall be addressed to the officer and address as mentioned in the tender document. viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.(Sample copy of the Bank Guarantee Bond is available in document section as Annexure-VIA)	No	No	Not Allowed

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17	Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.	No	No	Not Allowed
18	The GCC wherever mentioned in the Tender document will be understood as Indian Railway General Conditions of Contract-2022 with latest amendments if any	No	No	Not Allowed

**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Modification of existing Electronic Interlocking (EI) system: In order to ensure that bidder is fully aware about the modification of the existing EI systems Make-Ansaldo/Hitachi costing at the time of bidding so that quotes are realistic and reasonable. The following Criteria must be included: The tender has to submit authorisation from the OEM make-Ansaldo/Hitachi or OEM himself can participate in the tender, to confirm compliance with extant RDSO guidelines. Any partial submission of the authorisation shall lead to termination of the contract under Clause -62 of GCC -2022.	No	No	Allowed (Mandatory)

**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. Submit PDF copy of self-certificate in support of site visit.	No	No	Not Allowed
2	If the tenderers deliberately give/gives wrong information in his/their tender or create/creates circumstances for the acceptance of his/their tender, the Railway reserves the right to reject such tender at any stage.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	Annexure-1and2.pdf	Annexure 1 and 2
2	Annexure-L.pdf	Annexure L
3	Annexure-MandN.pdf	Annexure M and N
4	Annexure-V.pdf	Annexure V
5	Annexure-VA.pdf	Annexure VA
6	AnnexureVIA.pdf	Annexure VI A
7	Annexure-VI-B.pdf	Annexure VI B
8	Annexure-Z.pdf	Annexure Z
9	TENDERFORMFirstSheet.pdf	Tender Form First Sheet
10	ColouredFinal_GCC_April-22_pdf_27.04.22.pdf	GCC 2022
11	GCCAdvanceCorrectionSlipNo.11..pdf	GCC Advance correction slip
12	RDSOGuidelinesforRevisedTANforEarthingetc.installation_80dpi_80.pdf	RDSO Guidelines for Revised TAN
13	Annexure-A.pdf	Annexure A
14	SpecialConditionsofContract_1.pdf	Special Condition of Contract

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

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issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

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

**Signed By:** AKSHAYA KUMAR NAYAK

**Designation :** DSTE/CKP