

**WDFC FIELD UNIT-AJMER-S AND T/WDFC
TENDER DOCUMENT**

Tender No: DFCC_All_SnT_NewMadar_02

Closing Date/Time: 28/08/2025 15:00

GM/Co./DFCCIL/AJMER acting for and on behalf of The President of India invites E-Tenders against Tender No **DFCC_All_SnT_NewMadar_02** Closing Date/Time 28/08/2025 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Design, supply, installation, testing and commissioning of outdoor Signalling gears which includes excavation of trench, laying of cables, casting of foundations of MACLS Signals & apparatus cases, erection /installation of MACLS signals, fixing & wiring of point machines as per RE standard, testing and commissioning of installed outdoor gears through centralized operation from VDU of EI system along with Design, supply, installation, configuration, testing and commissioning of telecom system at DFC New Madar Station		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	28/08/2025 15:00	Date Time Of Uploading Tender	07/08/2025 14:51
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	22715536.93	Tendering Section	WORKS 1
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	263600.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	90 Days
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	14/08/2025		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Deposit Work

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-Outdoor Signalling Work							3871007.12	Above/ Below/Par
01	01	7.00	Sheet	4153.92	29077.44	AT Par	29077.44	
	Description:- Design of circuits in connection with preparation of wiring diagrams as per approved Signalling Plan and submission of outdoor completion documents. It includes. Two copies of prints with soft copy will be submitted to DFCCIL for checking. If alterations are suggested/proposed by DFCCIL then again two copies of prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the DFCCIL. Tracings will be submitted for all the diagrams mentioned above for the purpose of approval by DFCCIL prior to commissioning of station. All drawings will be prepared in CAD. The wiring diagrams will consist relay rack analysis, relay contact analysis, fuse details. Tag block analysis etc. A separate CDIPen drive will be submitted to Railway for each station along with original tracings. It also includes preparation and supply of laminated one set of all completion plans including circuit diagrams and outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will be submitted for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details,, Fuse and Tag Block Analysis of Relay Rack and CT Rack, , Track Circuit Plan, Rack Erection Plan and Junction Box details etc. Note: Total cost of design and completion documents for a station/yard will be calculated on basis of total possible movements/routes as per Selection Table (ST). Inspection: Consignee Inspection charges: None Payment terms:100% after execution.							
02	02	200.00	Sheet	161.07	32214.00	AT Par	32214.00	

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02									Description:- Preparation and supply of laminated one set of all the completion plans including circuit diagrams and outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will also be provided for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Fuse and Tag Block analysis of Relay Rack, CT rack, Track circuit plan, rack erection plan and Junction Box details etc. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.
03	03	10.00	Numbers	3943.56	39435.60	AT Par	39435.60		Description:- Q-Series Neutral Line Relay (QN1 Type), 12F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDE". Inspection authority:- RDSO Inspection charges:-Bornee by DFCCIL Payment Terms:- 100% after supply.
04	04	10.00	Numbers	3789.37	37893.70	AT Par	37893.70		Description:- Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDF". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.
05	05	25.00	Numbers	4983.53	124588.25	AT Par	124588.25		Description:- Q-Series LED ECR (Universal Type i.e.QECX-61), 4F/4B complete with plug board(base plate), connectors, retaining clips etc and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 ,Amdt.-1and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be "ABDHK". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.
06	06	75.00	Numbers	390.37	29277.75	AT Par	29277.75		Description:- Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination of 60/40 core cable/flexible wire on tag block/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel throughing work. The work shall be done as per approved plan, extant practice on NWR& the instruction of DFCCIL Engineer at site. Inspection authority:- Consignee Inspection charges:- None Payment Terms:- 100% after commissioning.
07	07	25.00	Numbers	4812.82	120320.50	AT Par	120320.50		Description:- DC neutral line relay QNA1K, AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS: 931A& RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest.The interlocking code for this unit shall be "CDEKY". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.
08	08	2.00	Numbers	7965.00	15930.00	AT Par	15930.00		Description:- Key Lock Relays (KLCR), 24 V DC, 2F/2B as per RDSO No. IRS:S-46, S-34 &S-23 or latest. Details of ward plates KLCR of all wards manufactured by firm except I and X preferably in equal number are required. Firm shall supply 2 nos. of ward plates extra with each relay in the metallic enclosure. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:-Borne by DFCCIL Payment Terms:- 100% after supply.
09	09	3.00	Numbers	7080.00	21240.00	AT Par	21240.00		Description:- Point Contactor relay AC immune, plug in type, style QBCA1 DC biased contractor, (QBCA1 Type), 24 V DC, 2F(HD) 4F-4B contacts , heavy duty metal to carbon front contacts and back contacts metal to carbon, complete with plug board, retaining clip & connectors, conforming to BRS- 943 and IRS:S-34 & S-23 or latest. The interlocking code "DEHJX". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.
10	10	8.00	Kilometre	5813.26	46506.08	AT Par	46506.08		Description:- Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn.No.IRS:S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply
12	12	50.00	Metre	57.53	2876.50	AT Par	2876.50		Description:- Supply of 1 x 10 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 140 conductor each dia 0.30 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.91 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply

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13	13	100.00	Metre	99.45	9945.00	AT Par	9945.00	
	Description:- Supply of 1 x 16 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 127 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DCCIL(ii) None Payment Terms: 100% on Supply							
14	14	50.00	Metre	155.29	7764.50	AT Par	7764.50	
	Description:- Supply of 1 x 25 Sqmm (Red/Black) multi strand copper power wire as per IS:694:2010 or latest, 197 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.78 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply							
16	16	1.00	Numbers	22732.41	22732.41	AT Par	22732.41	
	Description:- Supply of Cable Termination(CT) racks as per Drg.No. CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply							
17	17	1.00	Numbers	8687.12	8687.12	AT Par	8687.12	
	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals/Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR & the instruction of DFCCIL engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Commissioning.							
18	18	2.00	Numbers	27586.00	55172.00	AT Par	55172.00	
	Description:- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used.Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle.The item also includes : (i)Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by DFCCIL). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of DFCCIL Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by DFCCIL / covered in Schedule separately(RDSO Spec.No IRS:S-24/2002(Amendment-1 Drg.NO RDSO/S-110000) and for Motor IRS:S-37/82(Amendment-3) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.							
19	19	2.00	Set	6829.74	13659.48	AT Par	13659.48	
	Description:- Ground connections, complete set suitable for IRS type / approved point Machine for ordinary turnout with tongue attachment insulation and other insulation as per RDSO Drg. S/3361@47>47@63 (for IRS type point machine) or RDSO Drg No.SA-9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after confirmation from Railway engineer as per site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply							
	20	2.00	Numbers	113610.00	227220.00	AT Par	227220.00	

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20	Description:- Supply of ELECTRIC POINT MACHINE ROTARY LOCKING TYPE HIGH THRUST OF 220 MM THROW, AC IMMUNITY 400 VOLT AC, NON - TRAILABLE TO OPERATE ON 110 V DC COMPLETE WITH LOCK AND DETECTOR SLIDES AND CABLE TERMINATION BOX, AS PER RDSO SPECIFICATION NO. IRS : S- 24/2002 AMENDMENT - 1 OR LATEST AS PER DRAWING.NO. RDSO/S-11000 WITH EXTERNAL CLAMP POINT LOCK AS PER DRG. NO. RDSO/S-3395 AND WITH COMPLETE SET OF GROUND CONNECTIONS WITH NYLON INSULATIONS AS PER DRG. NO. RDSO/S-3454 FOR 60Kg RAILS. THICK WEB SWITCH. LATEST ALTERATIONS IF ANY ARE APPLICABLE TO BOTH DRAWINGS. This includes supply of Set of tools as per para 20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) or latest 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 alongwith compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after Supply.					
21	Please see Item Breakup for details.	165510.70	AT Par	165510.70		
22	Description:- Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/199/2010(Rev1.1) or latest.(items to be procured through Stores) Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.					
23	22	6.00	Numbers	7021.00	42126.00	AT Par 42126.00
24	Description:- Supply of various LED signals (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/153/2011 (Rev.4.1) or latest.-LED for Calling ON Signal Aspect /A marker Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.					
25	23	25.00	Numbers	178.89	4472.25	AT Par 4472.25
26	Description:- Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt , calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.					
27	24	5.00	Numbers	10791.46	53957.30	AT Par 53957.30
28	Description:- Supply of Colour Light Signal Complete. This includes: -(1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.)Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply					
29	27	5.00	Numbers	2187.43	10937.15	AT Par 10937.15
30	Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest.-2/3/4 aspect signal unit mounted mounted directly on signal post. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after execution.					
31	28	2.00	Numbers	5087.65	10175.30	AT Par 10175.30
32	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.					
33	29	5.00	Numbers	9361.50	46807.50	AT Par 46807.50
34	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.					
35	30	6.00	Numbers	14945.53	89673.18	AT Par 89673.18

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30	Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.						
31	31	6.00	Numbers	1039.09	6234.54	AT Par	6234.54
	Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
32	32	4.00	Numbers	9439.40	37757.60	AT Par	37757.60
	Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.						
33	33	4.00	Numbers	632.78	2531.12	AT Par	2531.12
	Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
34	Please see Item Breakup for details.			62370.16	AT Par	62370.16	
	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation						
35	35	10.00	Numbers	9563.45	95634.50	AT Par	95634.50
	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.						
36	Please see Item Breakup for details.			16802.94	AT Par	16802.94	
	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per DFCCIL Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of DFCCIL engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
37	Please see Item Breakup for details.			106226.66	AT Par	106226.66	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
38	38	1682.00	Numbers	12.52	21058.64	AT Par	21058.64
	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
39	39	200.00	Numbers	59.18	11836.00	AT Par	11836.00
	Description:- Supply of Round head type non detoriating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after supply.						
..	Please see Item Breakup for details.			167710.40	AT Par	167710.40	

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41	Description:- Supply of Rapid Joint LS3, suitable for cable jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flammability point > 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
42	42	1.00	Numbers	5201.12	5201.12	AT Par	5201.12
	Description:- Tools for installation of Rapid Cable Joint kit.						
43	43	200.00	Metre	760.66	152132.00	AT Par	152132.00
	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
44	44	200.00	Metre	190.17	38034.00	AT Par	38034.00
	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
45	45	100.00	Metre	383.47	38347.00	AT Par	38347.00
	Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply						
46	46	300.00	RMT	29.59	8877.00	AT Par	8877.00
	Description:- Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
47	47	10.00	Numbers	1157.45	11574.50	AT Par	11574.50
	Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses 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. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
48	48	100.00	Metre	1202.97	120297.00	AT Par	120297.00
	Description:- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine (HDD machine). The bore shall be upto 200 mm dia& shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contractor shall provide all material required for boring 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. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
49	49	200.00	Numbers	328.68	65736.00	AT Par	65736.00
	Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
50	50	3000.00	cum	274.28	822840.00	AT Par	822840.00
50							

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	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. RSDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of DFCCIL Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
51	51	30.00	cum	274.28	8228.40	AT Par	8228.40	
	Description:- Digging of trench 1.2 Mtrs. deep from rail flange/ road level and 0.3 Mtrs to 0.6 Mtrs wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No.CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
52	52	1.00	Numbers	12506.58	12506.58	AT Par	12506.58	
	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
53	53	63000.00	RMT	9.10	573300.00	AT Par	573300.00	
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometerpost.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
54	54	1.00	Numbers	158443.22	158443.22	AT Par	158443.22	
	Description:- Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by DFCCIL Payment Terms: 100% after Supply							
55	55	1.00	Numbers	39610.81	39610.81	AT Par	39610.81	
	Description:- Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning							
56	Please see Item Breakup for details.				1044.76	AT Par	1044.76	
	Description:- Lettering / Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints /Nerolac /Dulux/ Berger make. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Execution							
57	57	0.50	Station	36944.91	18472.46	AT Par	18472.46	
	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Telecom Items							2570810.31	Above/ Below/Par
01	01	305.00	Metre	18.74	5715.70	AT Par	5715.70	

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Closing Date/Time: 28/08/2025 15:00

			Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.				
02	02	10.00	Numbers	947.11	9471.10	AT Par	9471.10
			Description:- Supply of patch chord cable (10 meter long) with SC/PC connectors compatible with SDH equipments as per TEC Specn.No.GR/OFJ-02/01 May 2004 with latest Amendment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.				
03	03	5.00	Numbers	12752.20	63761.00	AT Par	63761.00
			Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.				
04	04	1.00	Numbers	193957.98	193957.98	AT Par	193957.98
			Description:- Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM- 1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) NonePayment Terms: 100% after Supply				
05	05	1.00	Numbers	48489.50	48489.50	AT Par	48489.50
			Description:- Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.				
06	06	1.00	Numbers	253550.16	253550.16	AT Par	253550.16
			Description:- Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nosckts) ii) Subscriber loop circuits (minimum 4 nosckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply				
	07	1.00	Numbers	63387.54	63387.54	AT Par	63387.54

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Closing Date/Time: 28/08/2025 15:00

07	Description:- Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nosckts) ii) Subscriber loop circuits (minimum 4 nosckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtaills, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
08	08	1.00	Kilometre	48313.26	48313.26	AT Par	48313.26
	Description:- Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
09	09	1.00	Kilometre	12078.31	12078.31	AT Par	12078.31
	Description:- Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
10	10	1.00	Kilometre	10804.77	10804.77	AT Par	10804.77
	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
11	11	5.00	Numbers	5263.87	26319.35	AT Par	26319.35
	Description:- Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/ SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
12	12	2.00	Numbers	36716.41	73432.82	AT Par	73432.82
	Description:- Supply, installation and complete indoor wiring of 19 inch covered Rack of size 2035 mm x 600 mm x 600 mm (Approx.) as per Drg. No. CSTE/NWR/SOR/24. The rack shall be complete with all fittings for housing SDH equipments, Primary MUXES, DDF, MDF using crone modules and other equipments like runway ladders etc completely wired and equipped with integrated protection modules for all channels as per technical specifications and other stipulations of tender document. It should be possible to lock all the equipments with only order wire telephone remaining outside the rack. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
13	13	2.00	Numbers	4413.95	8827.90	AT Par	8827.90
	Description:- Supply & Installation of Professional 19" Equipment Racks 4U for housing of network equipments. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
14	14	2.00	Numbers	127514.14	255028.28	AT Par	255028.28
	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 25 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 50 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
15	15	2.00	Numbers	3666.60	7333.20	AT Par	7333.20
	Description:- Installation of Battery chargers, Power distribution Board along with MCBs of suitable ratings and wiring and commissioning of External alarm contacts through EMS. The work includes supply of battery rack, MCBs, battery cable and battery lugs and other accessories required for installation of power plant. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution.						
16	16	4.00	Numbers	37035.61	148142.44	AT Par	148142.44
	Description:- Supply of Module for SMPS 25 Amps/48VDC suitable for item no 15.21 of SOR. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
	17	2.00	Set	77027.97	154055.94	AT Par	154055.94

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Closing Date/Time: 28/08/2025 15:00

17	Description:- Supply of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
18	18	2.00	Set	19256.99	38513.98	AT Par	38513.98
	Description:- Installation, wiring, testing & commissioning of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
19	19	1.00	Numbers	176550.53	176550.53	AT Par	176550.53
	Description:- Supply of Portable Service terminal with installation of software, for managing both STM-1 ADMs Primary D/I MUXES with all accessories compatible with NMS to be supplied as per detailed technical specification attached and other stipulation of tender document. It should be possible to plug in, the service terminal at any of the station to programme any network element from any location of the network. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
20	20	10.00	Numbers	24363.18	243631.80	AT Par	243631.80
	Description:- Supply, installation and complete wiring of Optical fiber cable termination box for 24 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/PC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/PC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution.						
21	21	10.00	Numbers	146.69	1466.90	AT Par	1466.90
	Description:- Supply of SC/APC -LC/PC patch cord (5 meter) (3M, TE connectivity, R&M make or superior) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
22	22	10.00	Numbers	1232.67	12326.70	AT Par	12326.70
	Description:- Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
23	23	10.00	Numbers	308.17	3081.70	AT Par	3081.70
	Description:- Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
24	24	10.00	Numbers	1963.08	19630.80	AT Par	19630.80
	Description:- Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
25	25	10.00	Numbers	490.77	4907.70	AT Par	4907.70
	Description:- Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
26	26	4.00	Kilometre	985.48	3941.92	AT Par	3941.92
	Description:- Final location joint survey of proposed cable route plan (Quad/OFC Cable) and submission for approval of Railway. The details instruction/guidelines regarding joint survey and preparation of cable route plan are enclosed in Tender document. Contractor will submit two copies of prints with soft copy for checking by Railways. If alterations are suggested by Railways, then again two copies of prints will be provided for advance approval after carrying out all the alterations as submission of final cable route plan on 75 microne standard polyester film which includes details of entire section in which Quad /OFC Cables are laid. Once Railway has approved/signed tracings for cable route plan then contractor will submit 6 (Six) sets of zerox copies for cable route plan in proper binding form. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
28	28	2.00	Numbers	27241.60	54483.20	AT Par	54483.20
	Description:- Supply of 8 port Gigabit Lite Managed PoE Layer 2 Switch supports 8 nos 10/100/1000BASE-T ports, along with 2 Gigabit SFP ports, green-saving technologies, make model DG-GS1510HPL DIGISOL / CISCO/JUNIPER or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
29	29	2.00	Numbers	98334.10	196668.20	AT Par	196668.20
	Description:- Supply of 24 port Layer3 network switches with 4 Nos. 10/100/ 1000 Base-T/1000 Base-X SFP ports make model DG-GS4628SE DIGISOL /CISCO/JUNIPER or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	30	2.00	Numbers	39020.98	78041.96	AT Par	78041.96

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Closing Date/Time: 28/08/2025 15:00

30	Description:- Supply of managed optical media converter Complied RDSO spec SPN/TC/103/2013 rev 0 consisting of minimum four user ports 10/100 Mbps (2.1.3.2) without POE; two SFP slots for networking; Two electrical Ethernet ports for networking ; dual power supply support AC 230 VAC / DC - 48V DC from single socket ; Two numbers EOLS-1312-10-D 1000 base -LX 10 unit to work in daisy chain or ring topology :Make/Model : Teamlink 2100 , Team Engg / Team Link or similar. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply								
31	31	1.00	Numbers	186875.00	186875.00	AT Par	186875.00		
	Description:- Supply of NEC SL 2100 IP Base Exchange Configuration: (1) 9 CO lines(FXO) (2) 08 IP Extensions (3) 64 Analog Extensions (FXS) working on 230 V AC, MDF included suitable for thirty extensions (FXS), phones are not included. Model: NEC-IP BPAX. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.								
32	32	1.00	Numbers	14375.00	14375.00	AT Par	14375.00		
	Description:- Installation, testing and Commissioning Charges for NEC SL 2100. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.								
33	33	1.00	Numbers	10570.08	10570.08	AT Par	10570.08		
	Description:- Installation, wiring, testing and commissioning of Way side Equipment on the rack per station wise (this includes supply of all materials for execution of work except way side equipment which will be procured by DFC.). MTWE Equipment will be provided by DFCCIL								
34	34	1.00	Numbers	789.34	789.34	AT Par	789.34		
	Description:- Supply of push button telephone pulse/tone switchable telephone set with redial, mute, pause, flash tone, pulse facility as per TCE Specification No. GR/TEL-02/04 Sep. 02 with latest amendment. Inspection: Consignee Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.								
35	35	1.00	Numbers	25864.00	25864.00	AT Par	25864.00		
	Description:- 25-Watt VHF Transceiver Set with 3db GP Antenna, 50 meters RG-213 Co-axial cable and 13.5V 10A SMPS Power Supply								
36	36	1.00	Numbers	2440.00	2440.00	AT Par	2440.00		
	Description:- SPDs (Surge Protection Device) at Antenna side for protection of VHF25W (Alinko make) against surge								
37	37	1.00	Numbers	488.00	488.00	AT Par	488.00		
	Description:- Adaptor UHF Male to N-Female connector for SPDs								
38	38	1.00	Numbers	256.20	256.20	AT Par	256.20		
	Description:- UHF male connector for RG-213 Co-Axial Cable used at Antenna port								
39	39	1.00	Numbers	3660.00	3660.00	AT Par	3660.00		
	Description:- Installation and commissiointing charges for 25W VHF Base Station								
40	40	1.00	Numbers	3050.00	3050.00	AT Par	3050.00		
	Description:- Programming Cable for 5W & 25 Watt VHF set with software								
41	41	1.00	Numbers	56120.00	56120.00	AT Par	56120.00		
	Description:- Self-supported Mast for VHF Communication including Supply. Foundation Work, Testing & Commissioning. (Having 2 sections of 3 meter each. Pipe will be GI &Size will be 1.5 inches)								
42	42	1.00	Lumpsum	50408.05	50408.05	AT Par	50408.05		
	Description:- Designing of Telecom System								
	S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Supply of Cables								16273719.50	Above/ Below/Par
01	01	16.00	Kilometre	306800.00	4908800.00	AT Par	4908800.00		
	Description:- 6 Quad 0.9mm underground Railway Jelly Filled Telecom Quad Cables to Spec. No. IRS:TC 30/2005(Ver.-1) (Amd. 1 to 5) Inspection Charges: To be Borne by Vendor / Executing Agency								
02	02	1.00	Kilometre	241723.00	241723.00	AT Par	241723.00		
	Description:- 4 Quad 0.9mm underground Railway Jelly Filled Telecom Quad Cables to Spec. No. IRS:TC 30/2005(Ver.-1) (Amd. 1 to 5) Inspection Charges: To be Borne by Vendor / Executing Agency								
03	03	13.50	Kilometre	141659.00	1912396.50	AT Par	1912396.50		
	Description:- PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable 6 C X1.5 sqmm.to Spec.No. IRS:S-63/2014 (Rev.4.0) Inspection Charges: To be Borne by Vendor / Executing Agency								
04	04	32.50	Kilometre	197950.00	6433375.00	AT Par	6433375.00		
	Description:- PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable 12 C X1.5 sqmm.to Spec.No. IRS:S-63/2014 (Rev.4.0) Inspection Charges: To be Borne by Vendor / Executing Agency								

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05	05	3.50	Kilometre	362260.00	1267910.00	AT Par	1267910.00	
	Description:- PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable 12 C X2.5 sqmm.to Spec.No. IRS:S-63/2014 (Rev.4.0) Inspection Charges: To be Borne by Vendor / Executing Agency							
06	06	10.00	Kilometre	128502.00	1285020.00	AT Par	1285020.00	
	Description:- 2Cx25 PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable. Spec No. IRS: S-63/2014 (rev-4.0) and IS:1554(part-1) Inspection Charges: To be Borne by Vendor / Executing Agency							
07	07	1.00	Kilometre	83485.00	83485.00	AT Par	83485.00	
	Description:- OFC 48C IRS: TC: 55/2006 Rev-1 Amendment No.3. Inspection Charges: To be Borne by Vendor / Executing Agency							
08	08	1.00	Kilometre	141010.00	141010.00	AT Par	141010.00	
	Description:- 10Pair PIJF Polythene Insulated Polythene Sheathed Jelly Filled Telephone Cable 10 Pair 0.5 mm with Poly-AL Moisture Barrier to Spec No.: IRS:TC:41/97 Amdt.No. 3 Inspection Charges: To be Borne by Vendor / Executing Agency							

3. ITEM BREAKUP

Schedule	Schedule A-Outdoor Signalling Work					
Item- 21	Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/ 199/2010(Rev1.1) or latest.(items to be procured through Stores) Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	2101	RED Aspect	Numbers	5.00	8484.20	42421.00
2	2102	YELLOW Aspect	Numbers	10.00	8488.13	84881.30
3	2103	GREEN Aspect	Numbers	4.00	9552.10	38208.40
					Total	165510.70
Item- 34	Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3401	Single (Large) Case Apparatus case/SS location box as per Drg No. CSTE/5074	Numbers	6.00	6888.92	41333.52
2	3402	Half (Medium) Case Apparatus case/ SS location box as per DrgNo CSTE/5074	Numbers	4.00	5259.16	21036.64
					Total	62370.16
Item- 36	Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per DFCCIL Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of DFCCIL engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3601	Single Case (Large Case)	Numbers	6.00	2344.49	14066.94
2	3602	Half Case (Medium Case)	Numbers	4.00	684.00	2736.00
					Total	16802.94
Item- 37	Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	3701	Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)	Numbers	1682.00	54.63	91887.66
2	3702	Supply of End plate for item 4.28 (i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.	Numbers	100.00	10.24	1024.00
3	3703	Supply of End Stopper for item 4.28 (i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.	Numbers	100.00	10.24	1024.00
4	3704	Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement	Numbers	100.00	106.98	10698.00
5	3705	Supply of Markers strip for item 4.28 (i) of Chapter 4 of revised SOR	Numbers	100.00	15.93	1593.00
					Total	106226.66
Item- 41	Supply of Rapid Joint LS3, suitable for cable jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point > 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4101	Cable Size 6C x 1.5 Sq. mm.	Numbers	20.00	3506.49	70129.80
2	4102	Cable Size 12C x 1.5 Sq. mm	Numbers	20.00	4879.03	97580.60
					Total	167710.40
Item- 56	Lettering / Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints /Nerolac /Dulux/ Berger make. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Execution					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	5601	Full Case.	Numbers	6.00	119.50	717.00
2	5602	Half Case	Numbers	4.00	81.94	327.76
					Total	1044.76

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria:- Detail of Contractual Payment received in previous three financial years and the current financial year as per detail at: •Annexure-VIII, if contractual payments received are based on Audited Balance Sheets duly certified by Chartered Accountant. (Mandatory) OR •Annexure- VIII(A), if contractual payments received from concerned Department / Client based on Form 26AS/16A from IT TRACES duly certified by Chartered Accountant to judge the payment received as per clause 16.0 (k) of tender document.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria:- Works executed during last 7 years ending last day of the month previous to the one in which tender is invited. Completion/Performance Certificate in support of 30/40@47<37@ (as the case may be) similar nature of work as per clause 16.0 (c) of tender document. Work of similar nature means: Any RRI/PI/EI/MACLS Supply, Installation Testing, Commissioning Signalling work OR Any RRI/PI/EI/MACLS Alterations Signalling work OR Any CTC/ TMS Work.	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Not Allowed

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TentativeSIPofNewMadarJn_IREPS.pdf	New Madar Tentative SIP
2	TenderdocumentforNewMadarOutdoorSignallingTelecomSystemWorks-IREPSPUBLISHCOPY_1.pdf	Tender Document

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

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

Signed By: KANTI KUMAR THAKUR

Designation : APM/S T