

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

DY CEE C BRC acting for and on behalf of The President of India invites E-Tenders against Tender No **TR-C-4-2026-27-T** Closing Date/Time 14/07/2026 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

Name of Work	Design, Supply, Erection, Testing, Modification & Commissioning of 25 KV AC OHE between Samlaya to Timba in Connection With GC Work, 25kV AC OHE between Lakodara - Miyagam Karjan in connection with Lakodhra Flyover and Y-connection of Vishwamitri between Vishwamitri to Pratap Nagar on Vadodara Division of Western Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	14/07/2026 15:00	Date Time Of Uploading Tender	15/06/2026 14:04
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	289184032.40	Tendering Section	ELEC CONST
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	5783700.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	24 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	30/06/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 1-Section I: General for SMLA - TBA Project							13228902.00	
1	Please see Item Breakup for details.				1343034.00	AT Par	1343034.00	
	Description:- Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.							
2	Please see Item Breakup for details.				185132.00	AT Par	185132.00	
	Description:- Preparation of designs and drawings for switching stations (FP/SP/SSP)							
3	Please see Item Breakup for details.				86420.00	AT Par	86420.00	
	Description:- Supply without insulator and erection of mounting arrangements for span wire.							
4	Please see Item Breakup for details.				20520.00	AT Par	20520.00	
	Description:- Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.							
5	Please see Item Breakup for details.				761406.00	AT Par	761406.00	
	Description:- Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.							
6	Please see Item Breakup for details.				135056.00	AT Par	135056.00	
	Description:- Supply without insulator and erection of materials for termination of copper cross feeder with gantries.							
7	Please see Item Breakup for details.				935594.00	AT Par	935594.00	
	Description:- Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.							
8	Please see Item Breakup for details.				105760.00	AT Par	105760.00	
	Description:- Supply without Insulator and erection of cut-in (9 Tonne) Insulator							
9	Please see Item Breakup for details.				87760.00	AT Par	87760.00	
	Description:- Supply without Insulator and erection of a suspension (9 Tonne) Insulator.							
10	Please see Item Breakup for details.				136950.00	AT Par	136950.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

	Description:- Supply without Insulator and erection of 25 kV Post Insulator.			
12	Please see Item Breakup for details.	426692.00	AT Par	426692.00
	Description:- Supply and erection of earthing station at Switching Posts (SP & SSP) with conventional earthing system.			
13	Please see Item Breakup for details.	1754368.00	AT Par	1754368.00
	Description:- Supply & Erection of 25kV Vacuum type Interrupter.			
14	Please see Item Breakup for details.	517500.00	AT Par	517500.00
	Description:- Supply and Erection of 25kV Potential Transformers Type-I.			
15	Please see Item Breakup for details.	358856.00	AT Par	358856.00
	Description:- Supply and Erection of 42kV Lightning Arrestors (station class).			
16	Please see Item Breakup for details.	62312.00	AT Par	62312.00
	Description:- Supply & Erection of Terminal Boards in Control Cubicles.			
17	Please see Item Breakup for details.	20700.00	AT Par	20700.00
	Description:- Supply & Erection of Iron Clad 110 V DC Fuse Box.			
18	Please see Item Breakup for details.	22664.00	AT Par	22664.00
	Description:- Supply & Erection of Iron Clad 250 V AC Fuse Box.			
19	Please see Item Breakup for details.	562588.00	AT Par	562588.00
	Description:- Supply and Erection of Lead Acid Batteries.			
20	Please see Item Breakup for details.	451080.00	AT Par	451080.00
	Description:- Supply of Battery chargers.			
21	Please see Item Breakup for details.	173760.00	AT Par	173760.00
	Description:- Supply and Installation of cables for Control and indication circuit			
22	Please see Item Breakup for details.	30560.00	AT Par	30560.00
	Description:- Supply and Installation of cables for Heater supply.			
23	Please see Item Breakup for details.	117120.00	AT Par	117120.00
	Description:- Supply and Installation of cables for Catenary Indication.			
24	Please see Item Breakup for details.	1950000.00	AT Par	1950000.00
	Description:- Supply and Installation of cables for L.T. Power supply.			
25	Please see Item Breakup for details.	60480.00	AT Par	60480.00
	Description:- Supply and Installation of cables for 110 V D.C. supply.			
26	Please see Item Breakup for details.	749144.00	AT Par	749144.00
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).			
27	Please see Item Breakup for details.	389358.00	AT Par	389358.00
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).			
28	Please see Item Breakup for details.	199360.00	AT Par	199360.00
	Description:- Supply without Insulator of 25 kV D.O. fuse switch.			
29	Please see Item Breakup for details.	331050.00	AT Par	331050.00
	Description:- Transfer of equipment from one mast or support to another.			
31	Please see Item Breakup for details.	80808.00	AT Par	80808.00
	Description:- Dismantling of Over Head Equipment.			
32	Please see Item Breakup for details.	170760.00	AT Par	170760.00
	Description:- Splicing & extension of an anchored overhead equipment.			
33	Please see Item Breakup for details.	37128.00	AT Par	37128.00
	Description:- Dismantling of a Section Insulator Assembly.			
34	Please see Item Breakup for details.	40776.00	AT Par	40776.00
	Description:- Slewing and Putting Back of OHE in Original Shape.			
35	Please see Item Breakup for details.	4786.00	AT Par	4786.00
	Description:- Dismantling of an Isolator			
36	Please see Item Breakup for details.	9132.00	AT Par	9132.00
	Description:- Dismantling of a Post / Pedestal Insulator.			
37	Please see Item Breakup for details.	757608.00	AT Par	757608.00
	Description:- Manning of Switching Stations (SP/SSP).			
	Please see Item Breakup for details.	152680.00	AT Par	152680.00
39				

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Description:- Supply and Erection of material for internal and external lighting of Switching Station Building (SP/SSP).								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 2-Section-II: Concrete for SMLA - TBA Project							44254950.00	
1	Please see Item Breakup for details.				43890000.00	AT Par	43890000.00	
	Description:- Concrete for OHE & PSI foundation in other than hard soil and rock.							
2	Please see Item Breakup for details.				243420.00	AT Par	243420.00	
	Description:- Reinforced concrete for foundation & trench.							
3	Please see Item Breakup for details.				40980.00	AT Par	40980.00	
	Description:- Cable trench covers							
4	Please see Item Breakup for details.				80550.00	AT Par	80550.00	
	Description:- Supply & spreading of Ballast/Gravel in the switch yard							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 3-Section-III: Ferrous for SMLA - TBA Project							112722640.00	
1	Please see Item Breakup for details.				12792022.00	AT Par	12792022.00	
	Description:- Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts							
2	Please see Item Breakup for details.				64551040.00	AT Par	64551040.00	
	Description:- Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast.							
3	Please see Item Breakup for details.				4486950.00	AT Par	4486950.00	
	Description:- Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii)							
4	Please see Item Breakup for details.				3667410.00	AT Par	3667410.00	
	Description:- Supply only of fabricated steel SPS other than masts							
5	Please see Item Breakup for details.				2454720.00	AT Par	2454720.00	
	Description:- Supply and erection of a Guy Rod Assembly							
6	Please see Item Breakup for details.				359100.00	AT Par	359100.00	
	Description:- Supply and erection of 25kV Caution Board							
7	Please see Item Breakup for details.				15518160.00	AT Par	15518160.00	
	Description:- Supply without insulator and erection of Single bracket assembly							
8	Please see Item Breakup for details.				119540.00	AT Par	119540.00	
	Description:- Supply without insulator and erection of a pull off arrangement for one OHE							
9	Please see Item Breakup for details.				1068636.00	AT Par	1068636.00	
	Description:- Supply without Insulator and erection of materials for termination of Double conductor							
10	Please see Item Breakup for details.				1554888.00	AT Par	1554888.00	
	Description:- Supply and erection of a GI structure bond							
11	Please see Item Breakup for details.				257700.00	AT Par	257700.00	
	Description:- Supply and erection of a GI longitudinal bond							
12	Please see Item Breakup for details.				448800.00	AT Par	448800.00	
	Description:- Supply & erection of a GI transverse and special bond							
13	Please see Item Breakup for details.				253920.00	AT Par	253920.00	
	Description:- Supply & erection of a single earth electrode							
14	Please see Item Breakup for details.				7638.00	AT Par	7638.00	
	Description:- Supply and erection of 8 SWG G.I. wire for earthing							
15	Please see Item Breakup for details.				683340.00	AT Par	683340.00	
	Description:- Supply and erection of fencing panels at switching Station							
16	Please see Item Breakup for details.				400452.00	AT Par	400452.00	
	Description:- Supply and erection of fencing uprights							
17	Please see Item Breakup for details.				29085.00	AT Par	29085.00	
	Description:- Supply and erection of anticlimbing device for Switching stations							
18	Please see Item Breakup for details.				73350.00	AT Par	73350.00	
	Description:- Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.							

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TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

19	Please see Item Breakup for details.				3660228.00	AT Par	3660228.00	
	Description:- Supply and erection of anti-monkey menace.							
20	Please see Item Breakup for details.				266400.00	AT Par	266400.00	
	Description:- Supply & Erection of protective screens on ROB/FOB							
21	Please see Item Breakup for details.				69261.00	AT Par	69261.00	
	Description:- Supply of steel reinforcement for RCC work including cost of cutting, straightening, bending, biding, erecting and placing & keeping in position including all lead & lift & including cost of binding wire							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 4-Section-IV: Non Ferrous for SMLA - TBA Project							27408494.60	
1	Please see Item Breakup for details.				324400.00	AT Par	324400.00	
	Description:- Supply and erection of span wire.							
2	Please see Item Breakup for details.				14151750.00	AT Par	14151750.00	
	Description:- Supply and erection of Over Head Equipment only.							
3	Please see Item Breakup for details.				5059969.60	AT Par	5059969.60	
	Description:- Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.							
4	Please see Item Breakup for details.				838785.00	AT Par	838785.00	
	Description:- Supply without Insulator & erection of a section insulator assembly							
5	Please see Item Breakup for details.				2275116.00	AT Par	2275116.00	
	Description:- Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly							
6	Please see Item Breakup for details.				687792.00	AT Par	687792.00	
	Description:- Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly							
7	Please see Item Breakup for details.				333136.00	AT Par	333136.00	
	Description:- Supply without Insulators & erection of 25kV Double Pole Isolator							
8	Please see Item Breakup for details.				46272.00	AT Par	46272.00	
	Description:- Extra for supply & erection of an earth contact assembly in an isolator.							
9	Please see Item Breakup for details.				1258500.00	AT Par	1258500.00	
	Description:- Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.							
10	Please see Item Breakup for details.				105000.00	AT Par	105000.00	
	Description:- Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.							
11	Please see Item Breakup for details.				475350.00	AT Par	475350.00	
	Description:- Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.							
12	Please see Item Breakup for details.				194880.00	AT Par	194880.00	
	Description:- Supply of materials and erection of large copper jumper 160 Sq. mm between Aluminium bus and cross feeders							
13	Please see Item Breakup for details.				237584.00	AT Par	237584.00	
	Description:- Supply of materials and erection of large copper jumper 160 Sq. mm between cross feeder and OHE.							
14	Please see Item Breakup for details.				158100.00	AT Par	158100.00	
	Description:- Supply and erection of copper strips for equipment earthing.							
15	Please see Item Breakup for details.				459450.00	AT Par	459450.00	
	Description:- Supply & erection of Solid copper bus-bars 18mm.							
16	Please see Item Breakup for details.				385600.00	AT Par	385600.00	
	Description:- Supply & Erection of Tubular Aluminium Bushars 50x39mm Dia.							
17	Please see Item Breakup for details.				37420.00	AT Par	37420.00	
	Description:- Supply & Erection of Rigid Bimetallic Terminal Connector Suitable for 50 Dia Aluminium Tubular Busbar to Terminal Pad of 25kV Isolator/CT (RI-11090).							
18	Please see Item Breakup for details.				66170.00	AT Par	66170.00	
	Description:- Supply & Erection of Expansion Type Terminal Connector to Suit 50 Dia Aluminium Tubular Busbar, Terminal Pad of 25kV CT/Isolator (RI-11060).							
	Please see Item Breakup for details.				35590.00	AT Par	35590.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

19	Description:- Supply & Erection of 25kV System Rigid Bus Splice Connector to Suit 50 O/D Aluminium Tube on Both Ways (RI-11180).							
20	Please see Item Breakup for details.			35600.00	AT Par	35600.00		
	Description:- Supply & Erection of 25kV System TEE Connector to Suit 50 O/D Aluminium Tubular Busbar (RI-11150).							
21	Please see Item Breakup for details.			32290.00	AT Par	32290.00		
	Description:- Supply & Erection of Rigid Through Connector to Suit 50 Dia Aluminium Tubular Busbar & SPIDER AAC Conductor for 25kV P.T Type-II (RI-11110).							
22	Please see Item Breakup for details.			78490.00	AT Par	78490.00		
	Description:- Supply & Erection of 25kV System Expansion Bus Coupler on SI to Suit 50 O/D Al. Tube (RI-11120).							
23	Please see Item Breakup for details.			32530.00	AT Par	32530.00		
	Description:- Supply & Erection of 25kV System Tee Connector to Suit 50 O/D Aluminium Tubular Spider AAC Conductor (RI-11140).							
24	Please see Item Breakup for details.			34740.00	AT Par	34740.00		
	Description:- Supply & Erection of 25kV System Tee to Suit ZEBRA (28.58 Dia) ACSR Conductor on Both Ways (RI-11040).							
25	Please see Item Breakup for details.			28710.00	AT Par	28710.00		
	Description:- Supply & Erection of Rigid Terminal Conductor Suitable for 20 Dia Al. Conductor To Terminal Pad of 132/66 kV CB, Isolator & 25kV PT Type I & II (RI-11120).							
26	Please see Item Breakup for details.			14370.00	AT Par	14370.00		
	Description:- Supply & Erection of Rigid Connector On SI To Suit 50 Mm O/D Al. Bus Bar (RI-11200).							
27	Please see Item Breakup for details.			20900.00	AT Par	20900.00		
	Description:- Supply & Erection of Sliding Clamp for 50mm O/D Al. Bus Bar (RI-11190).							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 5-Section-V: Insulator for SMLA - TBA Project							14857737.00	
1	Please see Item Breakup for details.			5431860.00	AT Par	5431860.00		
	Description:- Supply of Insulators for Cantilever assembly vide RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm)							
2	Please see Item Breakup for details.			5211360.00	AT Par	5211360.00		
	Description:- Supply of Insulators for Cantilever assembly vide RE SOR items 4(a)(i) & 4(a)(iii):- Bracket Porcelain (CD-1050 mm)							
3	Please see Item Breakup for details.			34038.00	AT Par	34038.00		
	Description:- Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm)							
4	Please see Item Breakup for details.			1304790.00	AT Par	1304790.00		
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm)							
5	Please see Item Breakup for details.			239500.00	AT Par	239500.00		
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm)							
6	Please see Item Breakup for details.			176000.00	AT Par	176000.00		
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm)							
7	Please see Item Breakup for details.			567250.00	AT Par	567250.00		
	Description:- Supply of 9-Tonne insulators for RE SOR items 9(a), (b), (c), (d)& (e):-Porcelain (CD-1050 mm)							
8	Please see Item Breakup for details.			680760.00	AT Par	680760.00		
	Description:- Supply of 9-Tonne insulator for items 11(a)(i), &11 (a)(ii):- Porcelain (CD-1050 mm)							
9	Please see Item Breakup for details.			280120.00	AT Par	280120.00		
	Description:- Supply of 9-Tonne insulator for items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator							
10	Please see Item Breakup for details.			66664.00	AT Par	66664.00		
	Description:- Supply of Sectioning Insulators for 12(c) and 12(cx)							
11	Please see Item Breakup for details.			288465.00	AT Par	288465.00		
	Description:- Supply of Post & Operating rod insulators for item 13(a)							
12	Please see Item Breakup for details.			576930.00	AT Par	576930.00		

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Description:- Supply of Post & Operating rod insulators for item 13(c)								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 6-Section-VI: Bridge Mast for SMLA - TBA Project							139873.00	
1	Please see Item Breakup for details.				5459.00	AT Par	5459.00	
	Description:- Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE.							
2	Please see Item Breakup for details.				4118.00	AT Par	4118.00	
	Description:- Scanning of RCC piar capes of Bridges with approved scanner detector /Rebar locator to find out the correct locations of reinforcement in piar caps of bridge up to depth of 900mm at various location marking on safe properly and submit the sketch of each location to avoid any damage to reinforcement of piar caps (work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipments etc.)							
3	Please see Item Breakup for details.				38208.00	AT Par	38208.00	
	Description:- Drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in piar cap of bridge pair to a depth varying from 500 to 1100 mm under line block using pneumatic driller, compressor etc and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/ concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift (all labour and materials by the contractor. the rate is inclusive of providing lighting arrangements.)							
4	Please see Item Breakup for details.				48000.00	AT Par	48000.00	
	Description:- Supply of TGT bolts 25x1350x250 mm dia. Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE / Fasteners/0120 or latest.							
5	Please see Item Breakup for details.				44088.00	AT Par	44088.00	
	Description:- Fixing of bolts of 25mm dia1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in piar cap of bridge pair by epoxy goutings UNDER LINE BLOCK conditions at a minimum pressure of 7/kg/cm2 consists of approved quality of epoxy reasin harder and thinner (Araldite, Aradur, Fosroc,& similar make)) by suitable proportions including filler, such as silicon flour etc.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 7-Section-VII: Other than SOR Item for SMLA - TBA Project							23316128.00	
1	Please see Item Breakup for details.				1728720.00	AT Par	1728720.00	
	Description:- Supply of Antibird disc on insulator end fitting.							
2	Please see Item Breakup for details.				157200.00	AT Par	157200.00	
	Description:- Supply of Nylon/plastic Net- High density polyethelene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.							
3	Please see Item Breakup for details.				214548.00	AT Par	214548.00	
	Description:- Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.							
4	Please see Item Breakup for details.				3996920.00	AT Par	3996920.00	
	Description:- Supply of Station Equipments at SP/SSP as per RDSO Spec. No. TI/RCC/ SCADA/0134 with latest A&C slip with amendments.							
5	Please see Item Breakup for details.				14696.00	AT Par	14696.00	
	Description:- Providing (Supply & erection) of layout board for switching posts.							
6	Please see Item Breakup for details.				63108.00	AT Par	63108.00	
	Description:- Providing (Supply & erection) of SWR/Sectioning diagram board at stations.							
7	Please see Item Breakup for details.				130000.00	AT Par	130000.00	
	Description:- Digging of Trench size 450x1000 mm.							
8	Please see Item Breakup for details.				255000.00	AT Par	255000.00	
	Description:- Supply & laying of sand and 2nd class bricks in trenches.							
9	Please see Item Breakup for details.				25050.00	AT Par	25050.00	
	Description:- Tree Trimming / cutting.							
10	Please see Item Breakup for details.				17608.00	AT Par	17608.00	
	Description:- Supply & Erection of Fire Bucket with Stand for Switching Post.							
11	Please see Item Breakup for details.				9324.00	AT Par	9324.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

	Description:- Supply & erection of desk for Switching station.			
12	Please see Item Breakup for details.	9944.00	AT Par	9944.00
	Description:- Supply & Erection of Name board of switching Post.			
13	Please see Item Breakup for details.	3934.00	AT Par	3934.00
	Description:- Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.			
14	Please see Item Breakup for details.	264700.00	AT Par	264700.00
	Description:- Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.			
15	Please see Item Breakup for details.	406283.00	AT Par	406283.00
	Description:- Modification, Upgradation, testing, wiring & commissioning in existing RTU at Site in the section and standard SCADA software at RCC equipments for configuration, integration/ hooking up of additional RTUs of section & adjacent section with master station as per RDSO Spec. No. TI/RCC/SCADA/134 with latest A&C slip with amendments or latest.			
16	Please see Item Breakup for details.	1347192.00	AT Par	1347192.00
	Description:- Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work			
17	Please see Item Breakup for details.	39808.00	AT Par	39808.00
	Description:- Supply & erection of fire fighting equipment.			
18	Please see Item Breakup for details.	4096.00	AT Par	4096.00
	Description:- Supply of First aid Box with Strecher etc.			
19	Please see Item Breakup for details.	378000.00	AT Par	378000.00
	Description:- Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).			
20	Please see Item Breakup for details.	76000.00	AT Par	76000.00
	Description:- Provision of Buried Rail.			
21	Please see Item Breakup for details.	260000.00	AT Par	260000.00
	Description:- Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.			
22	Please see Item Breakup for details.	13220580.00	AT Par	13220580.00
	Description:- Supply of regulating equipment 5 pulley type complete with all accessories including SS wire rope and counter weight assembly for 2400kgf tension as per RDSO Spec. TI/SPC/OHE/ATD/0060(Rev. 2) or latest for conventional OHE.			
23	Please see Item Breakup for details.	7030.00	AT Par	7030.00
	Description:- "Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.			
24	Please see Item Breakup for details.	1405.00	AT Par	1405.00
	Description:- "Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.			
25	Please see Item Breakup for details.	8535.00	AT Par	8535.00
	Description:- "Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.			
26	Please see Item Breakup for details.	359310.00	AT Par	359310.00
	Description:- Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.			
27	Please see Item Breakup for details.	317137.00	AT Par	317137.00
	Description:- Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.			

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 8-Section-I: General for Lakodhara Flyover Project							2510189.00	
1	Please see Item Breakup for details.	141372.00	AT Par	141372.00				
	Description:- Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.							
2	Please see Item Breakup for details.	2340.00	AT Par	2340.00				
	Description:- Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.							
3	Please see Item Breakup for details.	80148.00	AT Par	80148.00				
	Description:- Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.							
	Please see Item Breakup for details.	97911.00	AT Par	97911.00				

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

4	Description:- Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.							
5	Please see Item Breakup for details.	52880.00	AT Par	52880.00				
	Description:- Supply without Insulator and erection of cut-in (9 Tonne) Insulator							
6	Please see Item Breakup for details.	87760.00	AT Par	87760.00				
	Description:- Supply without Insulator and erection of a suspension (9 Tonne) Insulator.							
7	Please see Item Breakup for details.	49800.00	AT Par	49800.00				
	Description:- Supply without Insulator and erection of 25 kV Post Insulator.							
8	Please see Item Breakup for details.	1170000.00	AT Par	1170000.00				
	Description:- Supply and Installation of cables for L.T. Power supply.							
9	Please see Item Breakup for details.	187286.00	AT Par	187286.00				
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).							
10	Please see Item Breakup for details.	194679.00	AT Par	194679.00				
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).							
11	Please see Item Breakup for details.	37380.00	AT Par	37380.00				
	Description:- Supply without Insulator of 25 kV D.O. fuse switch.							
12	Please see Item Breakup for details.	231735.00	AT Par	231735.00				
	Description:- Transfer of equipment from one mast or support to another.							
13	Please see Item Breakup for details.	40404.00	AT Par	40404.00				
	Description:- Dismantling of Over Head Equipment.							
14	Please see Item Breakup for details.	85380.00	AT Par	85380.00				
	Description:- Splicing & extension of an anchored overhead equipment.							
15	Please see Item Breakup for details.	12376.00	AT Par	12376.00				
	Description:- Dismantling of a Section Insulator Assembly.							
16	Please see Item Breakup for details.	16990.00	AT Par	16990.00				
	Description:- Slewing and Putting Back of OHE in Original Shape.							
17	Please see Item Breakup for details.	9572.00	AT Par	9572.00				
	Description:- Dismantling of an Isolator.							
18	Please see Item Breakup for details.	12176.00	AT Par	12176.00				
	Description:- Dismantling of a Post / Pedestal Insulator.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 9-Section-II: Concrete for Lakodhara Flyover Project							5187000.00	
1	Please see Item Breakup for details.				5187000.00	AT Par	5187000.00	
	Description:- Concrete for OHE & PSI foundation in other than hard soil and rock.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 10-Section-III: Ferrous for Lakodhara Flyover Project							18013528.00	
1	Please see Item Breakup for details.				3403382.00	AT Par	3403382.00	
	Description:- Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts.							
2	Please see Item Breakup for details.				6253382.00	AT Par	6253382.00	
	Description:- Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast.							
3	Please see Item Breakup for details.				2301000.00	AT Par	2301000.00	
	Description:- Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii).							
4	Please see Item Breakup for details.				1222470.00	AT Par	1222470.00	
	Description:- Supply only of fabricated steel SPS other than masts.							
5	Please see Item Breakup for details.				245472.00	AT Par	245472.00	
	Description:- Supply and erection of a Guy Rod Assembly.							
6	Please see Item Breakup for details.				92340.00	AT Par	92340.00	
	Description:- Supply and erection of 25kV Caution Board / Plate.							
7	Please see Item Breakup for details.				2463200.00	AT Par	2463200.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

	Description:- Supply without insulator and erection of Single bracket assembly.							
8	Please see Item Breakup for details.	59770.00	AT Par	59770.00				
	Description:- Supply without insulator and erection of a pull off arrangement for one OHE.							
9	Please see Item Breakup for details.	933984.00	AT Par	933984.00				
	Description:- Supply and erection of Regulating Equipment (3-Pulley type) with counter weight assembly for conventional/composite OHE.							
10	Please see Item Breakup for details.	112488.00	AT Par	112488.00				
	Description:- Supply without Insulator and erection of materials for termination of Double conductor.							
11	Please see Item Breakup for details.	185400.00	AT Par	185400.00				
	Description:- Supply and erection of a GI structure bond.							
12	Please see Item Breakup for details.	85900.00	AT Par	85900.00				
	Description:- Supply and erection of a GI longitudinal bond.							
13	Please see Item Breakup for details.	149600.00	AT Par	149600.00				
	Description:- Supply & erection of a GI transverse and special bond.							
14	Please see Item Breakup for details.	84640.00	AT Par	84640.00				
	Description:- Supply & erection of a single earth electrode.							
15	Please see Item Breakup for details.	3350.00	AT Par	3350.00				
	Description:- Supply and erection of 8 SWG G.I. wire for earthing .							
16	Please see Item Breakup for details.	44010.00	AT Par	44010.00				
	Description:- Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.							
17	Please see Item Breakup for details.	213300.00	AT Par	213300.00				
	Description:- Supply and erection of anti-monkey menace.							
18	Please see Item Breakup for details.	159840.00	AT Par	159840.00				
	Description:- Supply & Erection of protective screens on ROB/FOB.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 11-Section-IV: Non-Ferrous for Lakodhara Flyover Project							5716110.40	
1	Please see Item Breakup for details.	324400.00	AT Par	324400.00				
	Description:- Supply and erection of span wire.							
2	Please see Item Breakup for details.	1698210.00	AT Par	1698210.00				
	Description:- Supply and erection of Over Head Equipment only.							
3	Please see Item Breakup for details.	361426.40	AT Par	361426.40				
	Description:- Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.							
4	Please see Item Breakup for details.	223676.00	AT Par	223676.00				
	Description:- Supply without Insulator & erection of a section insulator assembly.							
5	Please see Item Breakup for details.	2275116.00	AT Par	2275116.00				
	Description:- Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly.							
6	Please see Item Breakup for details.	196512.00	AT Par	196512.00				
	Description:- Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly.							
7	Please see Item Breakup for details.	166568.00	AT Par	166568.00				
	Description:- Supply without Insulators & erection of 25kV Double Pole Isolator.							
8	Please see Item Breakup for details.	15424.00	AT Par	15424.00				
	Description:- Extra for supply & erection of an earth contact assembly in an isolator.							
9	Please see Item Breakup for details.	125850.00	AT Par	125850.00				
	Description:- Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.							
10	Please see Item Breakup for details.	30000.00	AT Par	30000.00				
	Description:- Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.							
11	Please see Item Breakup for details.	63380.00	AT Par	63380.00				
	Description:- Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.							
	Please see Item Breakup for details.	29698.00	AT Par	29698.00				

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

12	Description:- Supply of materials and erection of large copper jumper 160 Sq. mm between cross feeder and OHE.							
13	Please see Item Breakup for details.				52700.00	AT Par	52700.00	
	Description:- Supply and erection of copper strips for equipment earthing.							
14	Please see Item Breakup for details.				153150.00	AT Par	153150.00	
	Description:- Supply & erection of Solid copper bus-bars 18mm.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 12-Section-V: Insulator for Lakodhara Flyover Project							3439560.00	
1	Please see Item Breakup for details.				862200.00	AT Par	862200.00	
	Description:- Supply of Insulators for Cantilever of RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm).							
2	Please see Item Breakup for details.				827200.00	AT Par	827200.00	
	Description:- Supply of Insulators for cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii)Bracket Porcelain (CD-1050 mm).							
3	Please see Item Breakup for details.				34038.00	AT Par	34038.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm).							
4	Please see Item Breakup for details.				141825.00	AT Par	141825.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm).							
5	Please see Item Breakup for details.				119750.00	AT Par	119750.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm).							
6	Please see Item Breakup for details.				105600.00	AT Par	105600.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm).							
7	Please see Item Breakup for details.				283625.00	AT Par	283625.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050 mm).							
8	Please see Item Breakup for details.				283650.00	AT Par	283650.00	
	Description:- supply of 9-Tonne insulator for RE SOR items 11(a)(i), &11 (a)(ii):- Porcelain (CD-1050 mm).							
9	Please see Item Breakup for details.				56024.00	AT Par	56024.00	
	Description:- supply of 9-Tonne insulator for RE SOR items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator.							
10	Please see Item Breakup for details.				33332.00	AT Par	33332.00	
	Description:- Supply of Sectioning Insulators for 12(c) and 12(cx).							
11	Please see Item Breakup for details.				307696.00	AT Par	307696.00	
	Description:- Supply of Post & Operating rod insulators for item 13(a).							
12	Please see Item Breakup for details.				384620.00	AT Par	384620.00	
	Description:- Supply of Post & Operating rod insulators for item 13(c).							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 13-Section-VI: Bridge Mast for Lakodhara Flyover Project							59186.00	
1	Please see Item Breakup for details.				5459.00	AT Par	5459.00	
	Description:- Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE.							
2	Please see Item Breakup for details.				10295.00	AT Par	10295.00	
	Description:- Scanning of RCC piar capes of Bridges with approved scanner detector /Rebar locator to find out the correct locations of reinforcement in piar caps of bridge up to depth of 900mm at various location marking on safe properly and submit the sketch of each location to avoid any damage to reinforcement of piar caps (work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipments etc.)							
	Please see Item Breakup for details.				12736.00	AT Par	12736.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

3	Description:- Drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pair cap of bridge pair to a depth varying from 500 to 1100 mm under line block using pneumatic driller, compressor etc and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/ concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift (all labour and materials by the contractor. the rate is inclusive of providing lighting arrangements.)							
4	Please see Item Breakup for details.	16000.00	AT Par	16000.00				
5	Description:- Supply of TGT bolts 25x1350x250 mm dia. Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE / Fasteners/0120 or latest.							
5	Please see Item Breakup for details.	14696.00	AT Par	14696.00				
5	Description:- Fixing of bolts of 25mm dia1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pair cap of bridge pair by epoxy goutings UNDER LINE BLOCK conditions at a minimum pressure of 7/kg/cm2 consists of approved quality of epoxy reasin harder and thinner (Araldite, Aradur, Fosroc,& similar make)) by suitable proportions including filler, such as silicon flour etc.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 14-Section-VII: Other than SOR for Lakodhara Flyover Project							1661001.00	
1	Please see Item Breakup for details.	274400.00	AT Par	274400.00				
1	Description:- Supply of Antbird disc on insulator end fitting.							
2	Please see Item Breakup for details.	39300.00	AT Par	39300.00				
2	Description:- Supply of Nylon/plastic Net- High density polyethelene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.							
3	Please see Item Breakup for details.	71516.00	AT Par	71516.00				
3	Description:- Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.							
4	Please see Item Breakup for details.	42072.00	AT Par	42072.00				
4	Description:- Providing (Supply & erection) of SWR/Sectioning diagram board at stations.							
5	Please see Item Breakup for details.	39000.00	AT Par	39000.00				
5	Description:- Digging of Trench size 450x1000 mm.							
6	Please see Item Breakup for details.	76500.00	AT Par	76500.00				
6	Description:- Supply & laying of sand and 2nd class bricks in trenches.							
7	Please see Item Breakup for details.	7515.00	AT Par	7515.00				
7	Description:- Tree Trimming / cutting.							
8	Please see Item Breakup for details.	1124.00	AT Par	1124.00				
8	Description:- Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.							
9	Please see Item Breakup for details.	264700.00	AT Par	264700.00				
9	Description:- Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.							
10	Please see Item Breakup for details.	336798.00	AT Par	336798.00				
10	Description:- Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work.							
11	Please see Item Breakup for details.	54000.00	AT Par	54000.00				
11	Description:- Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).							
12	Please see Item Breakup for details.	38000.00	AT Par	38000.00				
12	Description:- Provision of Buried Rail.							
13	Please see Item Breakup for details.	104000.00	AT Par	104000.00				
13	Description:- Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.							
14	Please see Item Breakup for details.	16872.00	AT Par	16872.00				
14	Description:- "Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.							
15	Please see Item Breakup for details.	3372.00	AT Par	3372.00				
15	Description:- "Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.							
16	Please see Item Breakup for details.	20484.00	AT Par	20484.00				
16								

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

	Description:- "Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.							
17	Please see Item Breakup for details.				102660.00	AT Par	102660.00	
	Description:- Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.							
18	Please see Item Breakup for details.				168688.00	AT Par	168688.00	
	Description:- Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 15-Section-I: General for Y connecion Vishwamitri to Pratapnagar Project							1990545.00	
1	Please see Item Breakup for details.				70686.00	AT Par	70686.00	
	Description:- Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.							
2	Please see Item Breakup for details.				1260.00	AT Par	1260.00	
	Description:- Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.							
3	Please see Item Breakup for details.				46753.00	AT Par	46753.00	
	Description:- Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.							
4	Please see Item Breakup for details.				32637.00	AT Par	32637.00	
	Description:- Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.							
5	Please see Item Breakup for details.				21152.00	AT Par	21152.00	
	Description:- Supply without Insulator and erection of cut-in (9 Tonne) Insulator							
6	Please see Item Breakup for details.				21940.00	AT Par	21940.00	
	Description:- Supply without Insulator and erection of a suspension (9 Tonne) Insulator.							
7	Please see Item Breakup for details.				19920.00	AT Par	19920.00	
	Description:- Supply without Insulator and erection of 25 kV Post Insulator.							
8	Please see Item Breakup for details.				1170000.00	AT Par	1170000.00	
	Description:- Supply and Installation of cables for L.T. Power supply.							
9	Please see Item Breakup for details.				187286.00	AT Par	187286.00	
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).							
10	Please see Item Breakup for details.				194679.00	AT Par	194679.00	
	Description:- Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).							
11	Please see Item Breakup for details.				37380.00	AT Par	37380.00	
	Description:- Supply without Insulator of 25 kV D.O. fuse switch.							
12	Please see Item Breakup for details.				99315.00	AT Par	99315.00	
	Description:- Transfer of equipment from one mast or support to another.							
13	Please see Item Breakup for details.				10101.00	AT Par	10101.00	
	Description:- Dismantling of Over Head Equipment.							
14	Please see Item Breakup for details.				34152.00	AT Par	34152.00	
	Description:- Splicing & extension of an anchored overhead equipment.							
15	Please see Item Breakup for details.				12376.00	AT Par	12376.00	
	Description:- Dismantling of a Section Insulator Assembly.							
16	Please see Item Breakup for details.				16990.00	AT Par	16990.00	
	Description:- Slewing and Putting Back of OHE in Original Shape.							
17	Please see Item Breakup for details.				4786.00	AT Par	4786.00	
	Description:- Dismantling of an Isolator.							
18	Please see Item Breakup for details.				9132.00	AT Par	9132.00	
	Description:- Dismantling of a Post / Pedestal Insulator.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 16-Section-II: Concrete for Y connection Vishwamitri to Pratapnagar Project							2394000.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	Please see Item Breakup for details.				2394000.00	AT Par	2394000.00	
	Description:- Concrete for OHE & PSI foundation in other than hard soil and rock.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 17-Section-III Ferrous for Y connection Vishwamitri to Pratapnagar Project							7470736.00	
1	Please see Item Breakup for details.				938864.00	AT Par	938864.00	
	Description:- Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts							
2	Please see Item Breakup for details.				2521525.00	AT Par	2521525.00	
	Description:- Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast							
3	Please see Item Breakup for details.				1035450.00	AT Par	1035450.00	
	Description:- Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii).							
4	Please see Item Breakup for details.				611235.00	AT Par	611235.00	
	Description:- Supply only of fabricated steel SPS other than masts.							
5	Please see Item Breakup for details.				122736.00	AT Par	122736.00	
	Description:- Supply and erection of a Guy Rod Assembly.							
6	Please see Item Breakup for details.				30780.00	AT Par	30780.00	
	Description:- Supply and erection of 25kV Caution Board / Plate.							
7	Please see Item Breakup for details.				985280.00	AT Par	985280.00	
	Description:- Supply without insulator and erection of Single bracket assembly.							
8	Please see Item Breakup for details.				23908.00	AT Par	23908.00	
	Description:- Supply without insulator and erection of a pull off arrangement for one OHE.							
9	Please see Item Breakup for details.				544824.00	AT Par	544824.00	
	Description:- Supply and erection of Regulating Equipment (3-Pulley type) with counter weight assembly for conventional/composite OHE.							
10	Please see Item Breakup for details.				65618.00	AT Par	65618.00	
	Description:- Supply without Insulator and erection of materials for termination of Double conductor.							
11	Please see Item Breakup for details.				148320.00	AT Par	148320.00	
	Description:- Supply and erection of a GI structure bond.							
12	Please see Item Breakup for details.				42950.00	AT Par	42950.00	
	Description:- Supply and erection of a GI longitudinal bond.							
13	Please see Item Breakup for details.				44880.00	AT Par	44880.00	
	Description:- Supply & erection of a GI transverse and special bond.							
14	Please see Item Breakup for details.				33856.00	AT Par	33856.00	
	Description:- Supply & erection of a single earth electrode.							
15	Please see Item Breakup for details.				3350.00	AT Par	3350.00	
	Description:- Supply and erection of 8 SWG G.I. wire for earthing.							
16	Please see Item Breakup for details.				29340.00	AT Par	29340.00	
	Description:- Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.							
17	Please see Item Breakup for details.				127980.00	AT Par	127980.00	
	Description:- Supply and erection of anti-monkey menace.							
18	Please see Item Breakup for details.				159840.00	AT Par	159840.00	
	Description:- Supply & Erection of protective screens on ROB/FOB.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 18-Section-IV: Non-Ferrous for Y connection Vishwamitri to Pratapnagar Project							2143338.40	
1	Please see Item Breakup for details.				405500.00	AT Par	405500.00	
	Description:- Supply and erection of span wire.							
2	Please see Item Breakup for details.				566070.00	AT Par	566070.00	
	Description:- Supply and erection of Over Head Equipment only.							
	Please see Item Breakup for details.				361426.40	AT Par	361426.40	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

3	Description:- Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.							
4	Please see Item Breakup for details.		223676.00		AT Par		223676.00	
	Description:- Supply without Insulator & erection of a section insulator assembly							
5	Please see Item Breakup for details.		196512.00		AT Par		196512.00	
	Description:- Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly.							
6	Please see Item Breakup for details.		83284.00		AT Par		83284.00	
	Description:- Supply without Insulators & erection of 25kV Double Pole Isolator.							
7	Please see Item Breakup for details.		83900.00		AT Par		83900.00	
	Description:- Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.							
8	Please see Item Breakup for details.		15000.00		AT Par		15000.00	
	Description:- Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.							
9	Please see Item Breakup for details.		63380.00		AT Par		63380.00	
	Description:- Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.							
10	Please see Item Breakup for details.		52700.00		AT Par		52700.00	
	Description:- Supply and erection of copper strips for equipment earthing.							
11	Please see Item Breakup for details.		91890.00		AT Par		91890.00	
	Description:- Supply & erection of Solid copper bus-bars 18mm.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 19-Section-V: Insulator for Y connection Vishwamitri to Pratapnagar Project							1262121.00	
1	Please see Item Breakup for details.		344880.00		AT Par		344880.00	
	Description:- Supply of Insulators for Cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm).							
2	Please see Item Breakup for details.		330880.00		AT Par		330880.00	
	Description:- Supply of Insulators for cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii)Bracket Porcelain (CD-1050 mm).							
3	Please see Item Breakup for details.		34038.00		AT Par		34038.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm).							
4	Please see Item Breakup for details.		56730.00		AT Par		56730.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm).							
5	Please see Item Breakup for details.		47900.00		AT Par		47900.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm).							
6	Please see Item Breakup for details.		35200.00		AT Par		35200.00	
	Description:- Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm).							
7	Please see Item Breakup for details.		56725.00		AT Par		56725.00	
	Description:- Supply of 9-Tonne insulators for R SOR items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050 mm).							
8	Please see Item Breakup for details.		102114.00		AT Par		102114.00	
	Description:- Supply of 9-Tonne insulator for RE items 11(a)(i), &11 (a)(ii):-Porcelain (CD-1050 mm).							
9	Please see Item Breakup for details.		28012.00		AT Par		28012.00	
	Description:- supply of 9-Tonne insulator for RE SOR items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator.							
10	Please see Item Breakup for details.		33332.00		AT Par		33332.00	
	Description:- Supply of Sectioning Insulators for 12(c) and 12(cx).							
11	Please see Item Breakup for details.		115386.00		AT Par		115386.00	
	Description:- Supply of Post & Operating rod insulators for item 13(a).							
12	Please see Item Breakup for details.		76924.00		AT Par		76924.00	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Description:- Supply of Post & Operating rod insulators for item 13(c).								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 20-Section-VII: Other than SOR Item for Y connection Vishwamitri to Pratapnagar Project.							1407993.00	
1	Please see Item Breakup for details.				109760.00	AT Par	109760.00	
	Description:- Supply of Antibird disc on insulator end fitting.							
2	Please see Item Breakup for details.				39300.00	AT Par	39300.00	
	Description:- Supply of Nylon/plastic Net- High density polyethelene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.							
3	Please see Item Breakup for details.				71516.00	AT Par	71516.00	
	Description:- Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.							
4	Please see Item Breakup for details.				42072.00	AT Par	42072.00	
	Description:- Providing (Supply & erection) of SWR/Sectioning diagram board at stations.							
5	Please see Item Breakup for details.				39000.00	AT Par	39000.00	
	Description:- Digging of Trench size 450x1000 mm.							
6	Please see Item Breakup for details.				76500.00	AT Par	76500.00	
	Description:- Supply & laying of sand and 2nd class bricks in trenches.							
7	Please see Item Breakup for details.				2505.00	AT Par	2505.00	
	Description:- Tree Trimming / cutting							
8	Please see Item Breakup for details.				1124.00	AT Par	1124.00	
	Description:- Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.							
9	Please see Item Breakup for details.				264700.00	AT Par	264700.00	
	Description:- Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.							
10	Please see Item Breakup for details.				336798.00	AT Par	336798.00	
	Description:- Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work.							
11	Please see Item Breakup for details.				32400.00	AT Par	32400.00	
	Description:- Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).							
12	Please see Item Breakup for details.				104000.00	AT Par	104000.00	
	Description:- Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.							
13	Please see Item Breakup for details.				7030.00	AT Par	7030.00	
	Description:- "Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.							
14	Please see Item Breakup for details.				1405.00	AT Par	1405.00	
	Description:- "Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.							
15	Please see Item Breakup for details.				8535.00	AT Par	8535.00	
	Description:- "Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.							
16	Please see Item Breakup for details.				102660.00	AT Par	102660.00	
	Description:- Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.							
17	Please see Item Breakup for details.				168688.00	AT Par	168688.00	
	Description:- Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.							

3. ITEM BREAKUP

Schedule	Schedule 1-Section I: General for SMLA - TBA Project						
Item- 1	Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	See tender documents Explanatory Note	Per Track KM	57.00	23562.00	1343034.00
					Total	1343034.00
Item- 2 Preparation of designs and drawings for switching stations (FP/SP/SSP)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	2	The price shall cover on a flat rate bass per switching station, survey, Investigation of soil bearing pressure, preparation of cross section drawings, preparation of general arrangement drawings, detailed layout of equipment; bus-bar connections and insulators, layout of earthing system and earth connections, cable run layout, detailed designs and drawings for steel work and structural support, excluding the ones for which supply is made by the Purchaser, suitable concrete plinths for equipment and drawings for equipment's, components, fitting and materials supplied by the Contractor The price shall include supply of requisite number of copies of all drawings, including completion drawings as specified. (see para 12.23 of Annexure-2).	Each	4.00	46283.00	185132.00
					Total	185132.00
Item- 3 Supply without insulator and erection of mounting arrangements for span wire.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without insulator and erection of mounting arrangements for span wire. Materials shall be procured from RDSO/CORE approved vendors. Materials shall be as per latest RDSO drawing/specification or latest.	Each	10.00	7083.00	70830.00
2	2	The price shall cover supply without insulator and erection of mounting arrangements for span wire. Materials shall be procured from RDSO/CORE approved vendors. Materials shall be as per latest RDSO drawing/specification or latest.	Each	10.00	1559.00	15590.00
					Total	86420.00
Item- 4 Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover for Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations. The contractor is responsible for recording the precise physical measurements of the OHE at the time of final adjustment and painting these values onto the relevant masts. This is specifically required at all BWA (regulated OHE) where tensioning weights are used. The markings must be clear and durable: The mast surface must be cleaned of rust, scale, or grease before painting. Use high-quality enamel paint. Typically, the background is painted with a white/yellow patch, and the letters/numbers are in black or signal red. Measurements must be taken using a calibrated thermometer and a standard measuring tape after the OHE has been "final-tuned" (final tensioning and staggering completed). Markings are usually placed on the face of the mast (the side facing the track) at a height of approximately 1.5 to 2 metres from the rail level for easy visibility from the ground or a motor trolley.	Each	114.00	180.00	20520.00
					Total	20520.00
Item- 5	Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	114.00	5234.00	596676.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	114.00	1445.00	164730.00
					Total	761406.00
Item- 6	Supply without insulator and erection of materials for termination of copper cross feeder with gantries.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply & erection of all material necessary for the termination of Copper Cross feeder with gantry or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, it includes the all fasteners required for termination. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Set	16.00	6996.00	111936.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply & erection of all material necessary for the termination of Copper Cross feeder with gantry or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, it includes the all fasteners required for termination. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Set	16.00	1445.00	23120.00
Total						135056.00
Item- 7	Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	86.00	6091.00	523826.00
2	2	The price shall cover cost for erection of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	86.00	4788.00	411768.00
Total						935594.00
Item- 8	Supply without Insulator and erection of cut-in (9 Tonne) Insulator					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	40.00	1627.00	65080.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	40.00	1017.00	40680.00
Total						105760.00
Item- 9	Supply without Insulator and erection of a suspension (9 Tonne) Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	40.00	1572.00	62880.00
2	2	The price shall cover cost for erection of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	40.00	622.00	24880.00
Total						87760.00
Item- 10	Supply without Insulator and erection of 25 kV Post Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	110.00	831.00	91410.00
2	2	The price shall cover cost for erection of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	110.00	414.00	45540.00
Total						136950.00
Item- 12	Supply and erection of earthing station at Switching Posts (SP & SSP) with conventional earthing system.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of an earthing station as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	28.00	14223.00	398244.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover erection of an earthing station as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	28.00	1016.00	28448.00
Total						426692.00
Item- 13 Supply & Erection of 25kV Vacuum type Interrupter.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of 25kV Vacuum interrupter, complete with operating mechanism, all fittings, and accessories including terminal connectors as per RDSO Spec. No. TI/SPC/PSI/LVCBIN/0121 (May, 2023) with latest A&C Slip. The price shall also cover the supply of an enameled number plate and required quantity of Long shackle brass Pad lock (Make - Godrej, Link). The price also covers cost of interlocking arrangement between VCB and concern DPI (as per RDSO guidelines). Price shall also cover the supply of different size of GI/PVC pipe for dressing of all type of cable provide at SP/SSP building cubic. Price shall also cover the supply of different size of MS chequered plate use for cable trench at SSP/SP control building cubical.	Each	4.00	432128.00	1728512.00
2	2	The price shall cover erection of 25kV Vacuum interrupter, complete with operating mechanism, all fittings, and accessories including terminal connectors as per RDSO Spec. No. TI/SPC/PSI/LVCBIN/0121 (May, 2023) with latest A&C Slip. The price shall also cover the supply of an enameled number plate and required quantity of Long shackle brass Pad lock (Make - Godrej, Link). The price also covers cost of interlocking arrangement between VCB and concern DPI (as per RDSO guidelines). Price shall also cover the supply of different size of GI/PVC pipe for dressing of all type of cable provide at SP/SSP building cubic. Price shall also cover the supply of different size of MS chequered plate use for cable trench at SSP/SP control building cubical.	Each	4.00	6464.00	25856.00
Total						1754368.00
Item- 14 Supply and Erection of 25kV Potential Transformers Type-I.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply of 27.5 kV/100V potential transformer Type-I as per RDSO specification no. TI/SPC/PSI/PT/0210 (06/2021) or latest correction slip complete with all fittings and accessories including terminal connectors. The price also cover cost for supply of an enameled number plate and material for any Modification required for comply Latest TC, SMI/MI or local arrangement by open line. The price shall also cover for supply and modification of PT DO Fuse in SSP/SP post.	Each	6.00	85174.00	511044.00
2	2	The price shall cover cost for erection of 27.5 kV/100V potential transformer Type-I as per RDSO specification no. TI/SPC/PSI/PT/0210 (06/2021) or latest correction slip complete with all fittings and accessories including terminal connectors. The price also cover cost for supply of an enameled number plate and material for any Modification required for comply Latest TC, SMI/MI or local arrangement by open line. The price shall also cover for supply and modification of PT DO Fuse in SSP/SP post.	Each	6.00	1076.00	6456.00
					Total	517500.00
Item- 15 Supply and Erection of 42kV Lightning Arrestors (station class).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The Price shall cover cost for supply of 42 KV Metal oxide gapless type Lightning Arrestor as per RDSO specification No. TI/SPC/PSI/MOGTLA/0101 (02/2015) or latest including surge monitor (including suitable length of 35 sqmm cu. cable & clamps) and dis-connector assembly and an enameled number plate with fasteners and clamps. The disconnector shall be confirming to RDSO MI No. TI/MI/0048 Rev-2. After putting in service THRC (Third Harmonic Resistive Current) measurement shall be carried out on each arrestor as per RDSO MI No. TI/MF/0041 Rev-1 dtd 08.04.2010 (or latest).	Each	8.00	43858.00	350864.00
2	2	The Price shall cover cost for erection of 42 KV Metal oxide gapless type Lightning Arrestor as per RDSO specification No. TI/SPC/PSI/MOGTLA/0101 (02/2015) or latest including surge monitor (including suitable length of 35 sqmm cu. cable & clamps) and dis-connector assembly and an enameled number plate with fasteners and clamps. The disconnector shall be confirming to RDSO MI No. TI/MI/0048 Rev-2. After putting in service THRC (Third Harmonic Resistive Current) measurement shall be carried out on each arrestor as per RDSO MI No. TI/MF/0041 Rev-1 dtd 08.04.2010 (or latest).	Each	8.00	999.00	7992.00
					Total	358856.00
Item- 16 Supply & Erection of Terminal Boards in Control Cubicles.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of terminal board for 230V AC supply to Interrupters in switching post control cubicle as per RDSO/CORE latest drawings and specifications.	Each	4.00	14817.00	59268.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost for supply of terminal board for 230V AC supply to Interrupters in switching post control cubicle as per RDSO/CORE latest drawings and specifications.	Each	4.00	761.00	3044.00
					Total	62312.00
Item- 17 Supply & Erection of Iron Clad 110 V DC Fuse Box.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of 110V DC distribution board in switching post control cubicle suitable for respective section and as per RDSO/CORE latest drawings and specifications.	Each	4.00	5013.00	20052.00
2	2	The price shall cover cost for supply of 110V DC distribution board in switching post control cubicle suitable for respective section and as per RDSO/CORE latest drawings and specifications.	Each	4.00	162.00	648.00
					Total	20700.00
Item- 18 Supply & Erection of Iron Clad 250 V AC Fuse Box.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & erection of Iron clad 250V AC distribution board in switching post control cubicle suitable for respective section and as per RDSO/CORE latest drawings and specifications.	Each	4.00	5504.00	22016.00
2	2	The price shall cover cost for supply & erection of Iron clad 250V AC distribution board in switching post control cubicle suitable for respective section and as per RDSO/CORE latest drawings and specifications.	Each	4.00	162.00	648.00
					Total	22664.00
Item- 19 Supply and Erection of Lead Acid Batteries.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of a 110V, 40Ah low maintenance lead acid battery complete with stand and accessories as per RDSO specification No. RDSO/PE/SPEC/TL/0040-2003 (Rev.-0) with amendment No.-1 or latest, and a tool board. The price shall also cover for cost of a tool board for keeping all accessories like Hydro Meter, thermometer etc. The price shall also cover for cost of white board and specific gravity chart board for showing of pilot shell and standard value of specific gravity.	Each	4.00	129917.00	519668.00
2	2	The price shall cover erection of a 110V, 40Ah low maintenance lead acid battery complete with stand and accessories as per RDSO specification No. RDSO/PE/SPEC/TL/0040-2003 (Rev.-0) with amendment No.-1 or latest, and a tool board. The price shall also cover for cost of a tool board for keeping all accessories like Hydro Meter, thermometer etc. The price shall also cover for cost of white board and specific gravity chart board for showing of pilot shell and standard value of specific gravity.	Each	4.00	10730.00	42920.00
					Total	562588.00
Item- 20 Supply of Battery chargers.						

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of a battery charger for 110V, 40Ah low maintenance lead acid battery complete with stand and accessories as per RDSO specification No. TI/SPC/PSI/40-150/CHGR/1210 with latest ACS or latest. The price shall also cover for cost of suitable size of cable to connect between battery charger and battery including lugs and connectors. The price shall also cover for cost of Tools for battery like thermometer, hydrometer, voltmeter etc. with proper tool stand (hydrometer stand), White board for marking of pilot cell and its voltage and specific gravity, Board showing specific gravity.	Each	4.00	111383.00	445532.00
2	2	The price shall cover erection of a battery charger for 110V, 40Ah low maintenance lead acid battery complete with stand and accessories as per RDSO specification No. TI/SPC/PSI/40-150/CHGR/1210 with latest ACS or latest. The price shall also cover for cost of suitable size of cable to connect between battery charger and battery including lugs and connectors. The price shall also cover for cost of Tools for battery like thermometer, hydrometer, voltmeter etc. with proper tool stand (hydrometer stand), White board for marking of pilot cell and its voltage and specific gravity, Board showing specific gravity.	Each	4.00	1387.00	5548.00
					Total	451080.00
Item- 21	Supply and Installation of cables for Control and indication circuit					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply and Installation of 10 core x 2.5 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	320.00	517.00	165440.00
2	2	The price shall cover cost for supply and Installation of 10 core x 2.5 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	320.00	26.00	8320.00
					Total	173760.00
Item- 22	Supply and Installation of cables for Heater supply.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply and Installation of 2 core x 4.0 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	160.00	165.00	26400.00
2	2	The price shall cover cost for supply and Installation of 2 core x 4.0 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	160.00	26.00	4160.00
					Total	30560.00
Item- 23 Supply and Installation of cables for Catenary Indication.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply and Installation of 2 core x 2.5 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	320.00	340.00	108800.00
2	2	The price shall cover cost for supply and Installation of 2 core x 2.5 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	320.00	26.00	8320.00
					Total	117120.00
Item- 24 Supply and Installation of cables for L.T. Power supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor. The price shall also cover cost for supply and Installation of cable route marker at every 25mtrs. For whole length.	Metre	5000.00	352.00	1760000.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor. The price shall also cover cost for supply and Installation of cable route marker at every 25mtrs. For whole length.	Metre	5000.00	38.00	190000.00
					Total	1950000.00
Item- 25 Supply and Installation of cables for 110 V D.C. supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply and Installation of 2 core x 4.0 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	160.00	340.00	54400.00
2	2	The price shall cover cost for supply and Installation of 2 core x 4.0 sq mm PVC insulated, PVC sheathed, Copper conductor, Un armoured Electric Control cable for working voltage up to and including 1100 volts as per specification No. IS:1554/ Pt-I/ 1988 or latest and shall be packed in corrugated steel drums and procured at concern SSE's store or as desired by railway administration.	Metre	160.00	38.00	6080.00
					Total	60480.00
Item- 26 Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 10 KVA as per RDSO specification No. ETI/PSI/15(8-2003) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	8.00	81415.00	651320.00
2	2	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 10 KVA as per RDSO specification No. ETI/PSI/15(8-2003) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	8.00	12228.00	97824.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	749144.00
Item- 27	Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 25 KVA as per RDSO specification No. ETI/PSI/15(8 /03) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14 (1/86) Rev 1 (Apr•87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	2.00	182451.00	364902.00
2	2	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 25 KVA as per RDSO specification No. ETI/PSI/15(8 /03) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14 (1/86) Rev 1 (Apr•87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	2.00	12228.00	24456.00
					Total	389358.00
Item- 28	Supply without Insulator of 25 kV D.O. fuse switch.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply, Erection, testing and commissioning of 25 KV DO fuse complete assembly excluding insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87).	Each	16.00	11625.00	186000.00
2	2	The price shall cover cost for supply, Erection, testing and commissioning of 25 KV DO fuse complete assembly excluding insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87).	Each	16.00	835.00	13360.00
					Total	199360.00
Item- 29	Transfer of equipment from one mast or support to another.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support and dismantling of the erected bracket assembly from the old mast of support and consequent adjustment to overhead equipment required such as re-spacing of droppers (including cost of dropper wire), levelling etc. the foundation and steel work and bracket assembly for the new mast or structure will be paid for under appropriate Items and 4 respectively .	Each	50.00	2302.00	115100.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support and dismantling of the erected bracket assembly from the old mast of support and consequent adjustment to overhead equipment required such as re-spacing of droppers (including cost of dropper wire), levelling etc. the foundation and steel work and bracket assembly for the new mast or structure will be paid for under appropriate Items and 4 respectively	Each	50.00	4319.00	215950.00
					Total	331050.00
Item- 31 Dismantling of Over Head Equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling of equipment including Terminations, tensioning devices, guy rod assemblies bracket assemblies and associated small parts steel work (excluding components embedded in concrete) The price also cover cost for cutting of catenary wire, contact wire and other materials for DS-8 purpose (if required) and same will be handed over to concern SSE/C, Railways scrap depot for DS-8 or as desired by SSE/TRD/C. Transportation charges will be given relevant item of transportation.	Kilometre	4.00	20202.00	80808.00
					Total	80808.00
Item- 32 Splicing & extension of an anchored overhead equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover splicing of terminated overhead equipment for extension and consequent adjustment of the affected equipment The dismantled equipment (excluding portions embedded in concrete) shall be returned to the Purchaser's Engineer The cost of dismantling of overhead equipment would be paid for under Item 31(d) for the whole length of the anchoring span Irrespective of the physical position of the splices. The extended overhead equipment shall be deemed as starting from the center line of the structure preceding the old terminating structure and the extended overhead equipment shall be paid for under Item 6(az) or 6(bz) or 6(cz) as applicable.	Each	40.00	4269.00	170760.00
					Total	170760.00
Item- 33 Dismantling of a Section Insulator Assembly.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling 107 sq mm contact wire, 65 sq mm catenary wire, dropper wire and a section insulator, splicing of catenary and contact wires and the necessary adjustments to droppers. The price shall exclude the supply of required copper conductors for the adjustment. The dismantled equipment shall be handed over to the Purchaser's Engineer at the spot of dismantling or at the contactor's Depot's.	Each	6.00	1919.00	11514.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost of dismantling 107 sq mm contact wire, 65 sq mm catenary wire, dropper wire and a section insulator, splicing of catenary and contact wires and the necessary adjustments to droppers. The price shall exclude the supply of required copper conductors for the adjustment. The dismantled equipment shall be handed over to the Purchaser's Engineer at the spot of dismantling or at the contactor's Depot's.	Each	6.00	4269.00	25614.00
Total					37128.00	
Item- 34	Slewing and Putting Back of OHE in Original Shape.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover for temporary slewing or lowering of erected OHE adjusted and unadjusted to ground for special works, at the request of the Purchaser and restoration and re-adjustment of the equipment after completion of special works. The price shall be per span or part thereof, including anchoring spans. Additional components or materials used during such restoration or re-adjustment will be paid for at rates included in schedule 3 plus handling charges of provided such use has, in the opinion of the Purchaser, become necessary due to reasons beyond the control of the Contractor.	Sqm	12.00	3398.00	40776.00
Total					40776.00	
Item- 35	Dismantling of an Isolator					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for dismantle of complete isolator including terminal connectors, jumper wire, PG clamps operating rod and support insulators, operating handle and SPS. Transportation charges will be given relevant item of transportation.	Each	2.00	2393.00	4786.00
Total					4786.00	
Item- 36	Dismantling of a Post / Pedestal Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling of an isolator, single or gang-operated, including dismantling of connections to the over-head equipment and associated small parts steel work.	Each	12.00	761.00	9132.00
Total					9132.00	
Item- 37	Manning of Switching Stations (SP/SSP).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	Item No. 31(m)(i): Manning of Switching Stations (SP/SSP) The prices shall cover the payment/wages to the staff to be deployed at each switching station and traction sub-station as directed by purchaser's Engineer Manning shall be done round the clock The staff to be deployed must be skilled and fully Conversant with operation of various equipment's installed in switching station and traction sub-stations. The staff shall be deployed after test and trial by purchaser and on Issue of competency certificate. The staff deployed shall act in accordance with instructions/ directions given by the Traction Power Controller/representative of the purchaser The staff shall not leave the working place (Switching station and Traction Sub-station) in any case without prior permission of the purchaser's representative The price shall cover conveyance charges to the staff for going and coming to the working place. The period of manning shall be decided by the purchaser during execution of contract and manning shall commence on receipt of intimation in writing from the purchaser one month in advance. Note: In case Feeding Post is situated adjacent to TSS same will also be included for manning along with TSS.	Each/month	12.00	63134.00	757608.00
					Total	757608.00
Item- 39	Supply and Erection of material for internal and external lighting of Switching Station Building (SP/SSP).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	SEE THE TENDER DOCUMENT RESPECTIVE ITEMS EXPLANTORY NOTE	Each	4.00	38170.00	152680.00
					Total	152680.00
Schedule	Schedule 2-Section-II: Concrete for SMLA - TBA Project					
Item- 1	Concrete for OHE & PSI foundation in other than hard soil and rock.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock. SEE THE TENDER DOCUMENT REPECTIVE ITEMS EXPLANTORY NOTE	cum	5500.00	5641.00	31025500.00
2	2	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock.	cum	5500.00	2339.00	12864500.00
					Total	43890000.00
Item- 2	Reinforced concrete for foundation & trench.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover excavation and all reinforced concrete work for foundation including supply of steel for reinforcement and other materials Including bending/binding laying of reinforcement shoring and shuttering where necessary, costing concrete including frame work where necessary, grouting and finishing the tops of foundation blocks with the required slope/muff. The price shall include dismantling of all connected temporary arrangement back filling as required and removal of soil. The price shall also cover all concrete work for cost in situ piles and pedestals /columns for mounting equipment. The volume of cast-in-situ piles and pedestals columns shall be added of the volume of foundation block for purposes of payment, Dowel bars will not be considered as reinforcement for the purpose of this item. The price shall include the cost of cement also. Cement will not be supplied by Rlys. The price shall include cost for paint with distemper on of foundation. The price also covers cost of smooth plastering on exposed portion of foundation. Cement shall be used of 53 grade and of popular brand.	cum	30.00	5676.00	170280.00
2	2	The price shall cover excavation and all reinforced concrete work for foundation including supply of steel for reinforcement and other materials Including bending/binding laying of reinforcement shoring and shuttering where necessary, costing concrete including frame work where necessary, grouting and finishing the tops of foundation blocks with the required slope/muff. The price shall include dismantling of all connected temporary arrangement back filling as required and removal of soil. The price shall also cover all concrete work for cost in situ piles and pedestals /columns for mounting equipment. The volume of cast-in-situ piles and pedestals columns shall be added of the volume of foundation block for purposes of payment, Dowel bars will not be considered as reinforcement for the purpose of this item. The price shall include the cost of cement also. Cement will not be supplied by Rlys. The price shall include cost for paint with distemper on of foundation. The price also covers cost of smooth plastering on exposed portion of foundation. Cement shall be used of 53 grade and of popular brand.	cum	30.00	2438.00	73140.00
					Total	243420.00
Item- 3	Cable trench covers					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover costing of cable trench covers in reinforced concrete as per drawing The cable trench covers will be cashed in on angle iron frame of angle size 40x40x5. The price shall include the supply of steel for reinforcement angle iron for the frame work fabrication of angle iron frame etc. The price shall include Positioning and dressing up of the trench.	Sqm	15.00	1911.00	28665.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover costing of cable trench covers in reinforced concrete as per drawing The cable trench covers will be cashed in on angle iron frame of angle size40x40x5. The price shall include the supply of steel for reinforcement angle iron for the frame work fabrication of angle iron frame etc. The price shall include Positioning and dressing up of the trench	Sqm	15.00	821.00	12315.00
					Total	40980.00
Item- 4	Supply & spreading of Ballast/Gravel in the switch yard					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be per cum rate and shall cover supply and spreading of uniformly graded grovel/ballast of size 20 mm, in the outdoor switch yard after completing all the works and levelling the switch yard area, but before commissioning of the sub-station. The gravel/ballast shall be of good quality and free from any dust and dirt. Prior approval of ballast shall be taken from the Purchaser for the gravel samples. The gravel/ballast shall be spread out uniformly to a depth of 15cm. over the area indicated by the Purchaser's Engineer.	cum	50.00	1594.00	79700.00
2	2	The price shall be per cum rate and shall cover supply and spreading of uniformly graded grovel/ballast of size 20 mm, in the outdoor switch yard after completing all the works and levelling the switch yard area, but before commissioning of the sub-station. The gravel/ballast shall be of good quality and free from any dust and dirt. Prior approval of ballast shall be taken from the Purchaser for the gravel samples. The gravel/ballast shall be spread out uniformly to a depth of 15cm. over the area indicated by the Purchaser's Engineer.	cum	50.00	17.00	850.00
					Total	80550.00
Schedule	Schedule 3-Section-III: Ferrous for SMLA - TBA Project					
Item- 1	Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	<p>The price shall cover the cost of supply of O, N and R type portals with components as per RDSO's Drg. No (i)ETVC/0008 Sheet No.1 latest Mod for 'N' type. (ii)ETI/C/0017 Sheet No.1 latest Mod for 'O' type. (iii)ETI/C/0011 Sheet No.1 latest Mod for 'R' type. The structures shall be fabricated from steel conforming to IS-2062f2011 (or latest) Grade - E250 Quality-A IS-808/1989 and galvanised as per RDSOs specification No-ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). The price shall cover, cost of erection, alignment and setting before grouting, wherever required, of portals assembly of boom components and erection of the same. The prices shall also include Supply and erection of galvanised bolts, nuts washers etc. wherever required as per approved designs and drawings. The price shall cover assembling, adjustment and erection of all types of booms including TTC booms and any special structures across the track, not covered under Item The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a portal at platforms. 1.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 2.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid. 3.The price shall also include the straightening of portal uprights etc bent during transit and cutting of masts/portal uprights to suit the site condition. 4.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment. 5.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser. 6.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut. 7.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer. 8.Crane will be arranged by railway for Portal boom erection only on demand by contractor. 9.Materials will be supplied at site of work. 10.Payable unit weights for standard mast.</p>	MT	109.00	107505.00	11718045.00
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**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	<p>The price shall cover the cost of supply of O, N and R type portals with components as per RDSO's Drg. No (i)ETVC/0008 Sheet No.1 latest Mod for 'N' type. (ii)ETI/C/0017 Sheet No.1 latest Mod for 'O' type. (iii)ETI/C/0011 Sheet No.1 latest Mod for 'R' type. The structures shall be fabricated from steel conforming to IS-2062f2011 (or latest) Grade - E250 Quality-A IS-808/1989 and galvanised as per RDSOs specification No-ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). The price shall cover, cost of erection, alignment and setting before grouting, wherever required, of portals assembly of boom components and erection of the same. The prices shall also include Supply and erection of galvanised bolts, nuts washers etc. wherever required as per approved designs and drawings. The price shall cover assembling, adjustment and erection of all types of booms including TTC booms and any special structures across the track, not covered under Item The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a portal at platforms. 1.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 2.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid. 3.The price shall also include the straightening of portal uprights etc bent during transit and cutting of masts/portal uprights to suit the site condition. 4.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment. 5.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser. 6.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut. 7.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer. 8.Crane will be arranged by railway for Portal boom erection only on demand by contractor. 9.Materials will be supplied at site of work. 10.Payable unit weights for standard mast.</p>	MT	109.00	9853.00	1073977.00
					Total	12792022.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Item- 2 Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	<p>The price shall cover the cost of supply of B-Series traction mast 9.5 m and/or 11.4 m long i.e. B-Series Mast fabricated and galvanized as per RDSO Org No. ETI/C/0071 (Mod-E), TI/DRG/CIV/B-Mast/00001/ 13/0 with latest mod and specification No. ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). Steel shall be conforming to IS-2062/2011 (or latest) Grade - E250, Quality-A, and Zinc conforming to IS-209 (or Latest). The price shall also cover the supply of all size of B-Series mast required which has not been mentioned. The price shall cover the cost of erection, alignment and setting before grouting of individual traction masts and main masts of Switching and Booster Transformers stations including those for head spans. The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/removed/damaged during the course of erection of a mast at platforms</p> <p>1.The price shall cover cost of fabrication, galvanization, and supply of individual tractions masts & Bridge mast.</p> <p>2.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter.</p> <p>3.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid.</p> <p>4.The price shall also include the straightening of masts bent during transit and cutting of masts/portal uprights to suit the site condition.</p> <p>5.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment.</p> <p>6.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser.</p> <p>7.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut.</p> <p>8.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer.</p> <p>9.Crane will be arranged by railway for Portal boom erection only on demand by contractor.</p> <p>10.Materials will be supplied at site of</p>	MT	640.00	97468.00	62379520.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

		work. 11.Payable unit weights for standard mast. 12. Sr. No.Type of mastBlack Weight (Kg) as per drawing 16"x6"x25.15 BFB352.45 28"x6"x35 RSJ494.00 3B-150369.69 4B-175422.89 5B-200474.19 6B-250695.27				
2	2	The price shall cover the cost of supply of B-Series traction mast 9.5 m and/or 11'.4 m long i.e. B-Series Mast fabricated and galvanized as per RDSO Org No. ETI/C/0071 (Mod-E), TI/DRG/CIV/B-Mast/00001/ 13/0 with latest mod and specification No. ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). Steel shall be conforming to IS-2062/2011 (or latest) Grade - E250, Quality-A, and Zinc conforming to IS-209 (or Latest). The price shall also cover the supply of all size of B-Series mast required which has not been mentioned. The price shall cover the cost of erection, alignment and setting before grouting of individual traction masts and main masts of Switching and Booster Transformers stations including those for head spans. The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/removed/damaged during the course of erection of a mast at platforms 1.The price shall cover cost of fabrication, galvanization, and supply of individual tractions masts & Bridge mast. 2.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 3.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid. 4.The price shall also include the straightening of masts bent during transit and cutting of masts/portal uprights to suit the site condition. 5.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment. 6.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser. 7.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut. 8.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer. 9.Crane will be arranged by railway for Portal boom erection only on demand by contractor.	MT	640.00	3393.00	2171520.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

		10.Materials will be supplied at site of work. 11.Payable unit weights for standard mast. 12. Sr. No.Type of mastBlack Weight (Kg) as per drawing 16"x6"x25.15 BFB352.45 28"x6"x35 RSJ494.00 3B-150369.69 4B-175422.89 5B-200474.19 6B-250695.27				
					Total	64551040.00
Item- 3	Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	<p>The price shall Cover the cost of supply and erection of special fabricated & galvanised steel structures (other than BFB/RSUB-Series masts and portals) for conventional and High Rise OHE. The structure to be supplied under this Item shall be TTC, G-type, BFB type portals, Bridge masts, emergency masts -and double/fabricated "S" series masts such as S3, SS, S7, S8, S-100, S-101. T-150, Dwarf Masts etc Any other similar structure required during the execution of work shall also be supplied under this Item. The price shall include the cost of steel, fabrication, galvanisation, and supply at site for erection Steel shall be conforming to IS-2062/2011 (or latest) Grade - E250, Quality-A, Zinc conforming to IS- 209/1997 (or latest) and galvanization to RDSOs specification No ETI/OHE/13(4/84) with A&C slip No.1 to 4, with latest spec. The various structures covered under this Item are:- SNDescriptionDrg No.Mod TTC with boomETVC/0009 sheet 1Latest 2G-type portal Upright & end pieces. ETVC/0056Latest 3BFB portalETVC/0026 Sh -1Latest 4 ETVC/0182 5S-8,12.4mETI/C/0183Latest 6S-100, for LT. transformer at SWSETI,'C/0043 7S-101, for Isolators inside SWSETVC/0044Latest 8 ETI,'C/0180 9S5, 114mETVC/0042Latest 10T-150, for LT supply transformerETI/PSI/037Latest 11Dwarf MastETVOHE/G/1402Latest 12Special BFB Portal for 5 tracks (General Arrangement) for High Rise OHE.TI/DRG'CIV/BFB-POTAL'O 0001/13/0 Sh.No. 1 13G-Type Portal Special Upright and End Piece for Hi h Rise OHETI/DRG/CIV/G-PORTAL/O 0001/13/0Latest 14Two Track Cantilever Structure (TTC) General Arrangement for High Rise OHETI/DRG/CIV/TTC/ 00001/13/0 Sh. I The price shall cover, cost of erection, alignment and setting before grouting, wherever required, gantries, including tower/ steel tower/steel work for feeders for traction sub-station, drop arms, standard super masts and suspension brackets for return conductors, dwarf masts or stub masts for anchoring, complete with anchor plates drilled and welded in position, multiple cantilever cross arm, chairs, adopters for bracket assemblies and all other small part steel works, the erection of which is carried out by the Contractor irrespective of whether they are supplied by the Purchaser or the Contractor. The prices shall also include supply and erection of galvanised bolts, nuts washers etc wherever required as per approved designs and drawings. The prices shall also include the cost of repairing of platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a mast/portal at platforms.</p>	MT	39.00	105197.00	4102683.00
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**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall Cover the cost of supply and erection of special fabricated & galvanised steel structures (other than BFB/RSUB-Series masts and portals) for conventional and High Rise OHE. The structure to be supplied under this Item shall be TTC, G-type, BFB type portals, Bridge masts, emergency masts -and double/fabricated "S" series masts such as S3, SS, S7, S8, S-100, S-101. T-150, Dwarf Masts etc Any other similar structure required during the execution of work shall also be supplied under this Item. The price shall include the cost of steel, fabrication, galvanisation, and supply at site for erection Steel shall be conforming to IS-2062/2011 (or latest) Grade - E250, Quality-A, Zinc conforming to IS- 209/1997 (or latest) and galvanization to RDSOs specification No ETI/OHE/13(4/84) with A&C slip No.1 to 4, with latest spec. The various structures covered under this Item are:- SNDDescriptionDrg No.Mod TTC with boomETVC/0009 sheet 1Latest 2G-type portal Upright & end pieces. ETVC/0056Latest 3BFB portalETVC/0026 Sh-1Latest 4 ETVC/0182 5S-8,12.4mETI/C/0183Latest 6S-100, for LT. transformer at SWSETI,'C/0043 7S-101, for Isolators inside SWSETVC/0044Latest 8 ETI,'C/0180 9S5, 114mETVC/0042Latest 10T-150, for LT supply transformerETI/PSI/037Latest 11Dwarf MastETVOHE/G/1402Latest 12Special BFB Portal for 5 tracks (General Arrangement) for High Rise OHE.TI/DRG'CIV/BFB-POTAL'O 0001/13/0 Sh.No. 1 13G-Type Portal Special Upright and End Piece for Hi h Rise OHETI/DRG/CIV/G-PORTAL/O 0001/13/0Latest 14Two Track Cantilever Structure (TTC) General Arrangement for High Rise OHETI/DRG/CIV/TTC/ 00001/13/0 Sh. I The price shall cover, cost of erection, alignment and setting before grouting, wherever required, gantries, including tower/ steel tower/steel work for feeders for traction sub-station, drop arms, standard super masts and suspension brackets for return conductors, dwarf masts or stub masts for anchoring, complete with anchor plates drilled and welded in position, multiple cantilever cross arm, chairs, adopters for bracket assemblies and all other small part steel works, the erection of which is carried out by the Contractor irrespective of whether they are supplied by the Purchaser or the Contractor. The prices shall also include supply and erection of galvanised bolts, nuts washers etc wherever required as per approved designs and drawings. The prices shall also include the cost of repairing of platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a mast/portal at platforms.	MT	39.00	9853.00	384267.00	
						Total	4486950.00
Item- 4		Supply only of fabricated steel SPS other than masts					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover the cost of supply only of all fabricated steel work excluding fasteners which are required to be supplied by the Contractor. The cost of erection for such steel work, If carried out by the Contractor shall be paid for under Item-III. For standard fabricated steel work for which RDSO'S approved drawings are available, the weight of steel work as specified in RDSOS drawing shall be considered for payment. However, in case the unit sectional weight of any member indicated in RDSOs drawing is not in conformity with the unit sectional weight as per the latest IS specification, the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment For the non-standard fabricated steel work, the calculated weight to be considered for payment under this Item shall be included in the relevant drawing based on, latest IS sectional weight at the time of submitting the designs for approval of the Purchaser. The price shall include the cost of supply of bracket top and bottom mast fittings suitable for PSC masts.	MT	30.00	122247.00	3667410.00
					Total	3667410.00
Item- 5		Supply and erection of a Guy Rod Assembly				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	<p>The price shall cover supply and erection of Guy Rod Assembly, for both conventional and High Rise OHE, of various lengths for traction masts, feeder line towers or supports complete with mast guy rod fittings, guy rod with adjustments and part/s be grouted in the anchor block The price shall not include the cost of supply and erection of a dwarf or stub mast with anchor plates drilled and welded in position, where required, for anchorage, and small parts steel work, complete with bolts and nuts etc., if any for attaching the mast guy rod fittings to the mast/structure which shall be paid for separately under the relevant Item. Prices indicated against all other Items should be exclusive of the price of supply and erection of guy rod, if any which will be paid for under this Item.</p> <p>COMPONENTS REQUIREMENT</p> <p>Riy. Id. No. Description of components Qty. per unit</p> <p>3232 Mast guy rod fitting (welded) completes with 4 short bolts, nuts, lock nuts and washers for attachment to mast/S.P.S including appropriate fittings 1 set</p> <p>5001/ 5001-1/ 5001-3 Anchor bolts (complete with nuts lock nuts and split pins 1 Set</p> <p>5002 Guy rod stirrup 1 no. 5004 or 5005 or 5005-2 or 5006-+1 or 9070 or 9071 or 5006-2 Guy rod with nut, lock nut, washer and split pin 1 Set</p> <p>5007-1 Anchor 'v' bolt 2 nos. 5008 Anchor loop 2 nos. 5220 Guy rod double strap assembly 1 set or 2 set as required</p> <p>NOTE: 1. In case the Contractor desires to adopt a different design for guy rod assembly, the same shall be indicated by him in the Tender and the components required should be clearly listed under this Item as deviation. 2. Supply and erection of guy rod assembly at anticreep portals will also be paid for under this Item. 3. Galvanization shall be as per Railway Specification No. No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 4. All components should be as per latest RDSO Drawing and Specification with Revision (if any).</p>	Each	240.00	8497.00	2039280.00
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**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply and erection of Guy Rod Assembly, for both conventional and High Rise OHE, of various lengths for traction masts, feeder line towers or supports complete with mast guy rod fittings, guy rod with adjustments and part/s be grouted in the anchor block The price shall not include the cost of supply and erection of a dwarf or stub mast with anchor plates drilled and welded in position, where required, for anchorage, and small parts steel work, complete with bolts and nuts etc., if any for attaching the mast guy rod fittings to the mast/structure which shall be paid for separately under the relevant Item. Prices indicated against all other Items should be exclusive of the price of supply and erection of guy rod, if any which will be paid for under this Item. COMPONENTS REQUIREMENT Riy. Id. No.Description of componentsQty. per unit 3232Mast guy rod fitting (welded) completes with 4 short bolts, nuts, lock nuts and washers for attachment to mast/S.P.S including appropriate fittings1 set 5001/ 5001-1/ 5001-3Anchor bolts (complete with nuts lock nuts and split pins 1 Set 5002Guy rod stirrup1 no. 5004 or 5005 or 5005-2 or 5006-+1 or 9070 or 9071 or5006-2Guy rod with nut, lock nut, washer and split pin1 Set 5007-1Anchor 'v' bolt2 nos. 5008Anchor loop2 nos. 5220Guy rod double strap assembly1 set or 2 set as required NOTE: 1 . In case the Contractor desires to adopt a different design for guy rod assembly, the same shall be indicated by him in the Tender and the components required should be clearly listed under this Item as deviation. 2.Supply and erection of guy rod assembly at anticreep portals will also be paid for under this Item. 3. Galvanization shall be as per Railway Specification No. No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 4. All components should be as per latest RDSO Drawing and Specification with Revision (if any).	Each	240.00	1731.00	415440.00
					Total	2454720.00
Item- 6	Supply and erection of 25kV Caution Board					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site .	Each	700.00	374.00	261800.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site.	Each	700.00	139.00	97300.00
Total						359100.00
Item- 7 Supply without insulator and erection of Single bracket assembly						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	SEE THE TENDER DOCUMENT REPECTIVE ITEMS EXPLANTORY NOTE	Each	1260.00	10927.00	13768020.00
2	2	SEE THE TENDER DOCUMENT REPECTIVE ITEMS EXPLANTORY NOTE	Each	1260.00	1389.00	1750140.00
Total						15518160.00
Item- 8 Supply without insulator and erection of a pull off arrangement for one OHE						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	10.00	11043.00	110430.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	10.00	911.00	9110.00
					Total	119540.00
Item- 9	Supply without Insulator and erection of materials for termination of Double conductor					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wirer if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	114.00	7755.00	884070.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wiper if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	114.00	1619.00	184566.00
					Total	1068636.00
Item- 10	Supply and erection of a GI structure bond					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.El94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail. 4.Pric shall also cover for connection of structure bond to Rail in track circuiting area under the sleeper as per HQ letter No. EL-94/15/1 datd 17.10.2025 5.Price shall also cover for chamfering of all type Rail hole for traction bonding.	Each	1258.00	812.00	1021496.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.El94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail. 4.Pric shall also cover for connection of structure bond to Rail in track circuiting area under the sleeper as per HQ letter No. EL-94/15/1 datd 17.10.2025 5.Price shall also cover for chamfering of all type Rail hole for traction bonding.	Each	1258.00	424.00	533392.00
					Total	1554888.00
Item- 11 Supply and erection of a GI longitudinal bond						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	300.00	477.00	143100.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	300.00	382.00	114600.00
					Total	257700.00
Item- 12 Supply & erection of a GI transverse and special bond						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	300.00	1041.00	312300.00
2	2	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	300.00	455.00	136500.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	448800.00
Item- 13 Supply & erection of a single earth electrode						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	60.00	2514.00	150840.00
2	2	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	60.00	1718.00	103080.00
					Total	253920.00
Item- 14 Supply and erection of 8 SWG G.I. wire for earthing						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	114.00	36.00	4104.00
2	2	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	114.00	31.00	3534.00
					Total	7638.00
Item- 15 Supply and erection of fencing panels at switching Station						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall include supply and erection of fencing panels painted with two coats of red Oxide zinc chromate primer to IS:2074:1979 and finished with two coats of aluminium paint. The prices shall not include supply and erection of fencing up-rights, anti-climbing devices but shall include the cost of fasteners and the price shall be for a metre length of the panels, 2.4 meter height measured in the plan view of appropriate approved drawings. The fencing panel should be made with 8 SWG Wire.	Metre	210.00	3131.00	657510.00
2	2	The price shall include supply and erection of fencing panels painted with two coats of red Oxide zinc chromate primer to IS:2074:1979 and finished with two coats of aluminium paint. The prices shall not include supply and erection of fencing up-rights, anti-climbing devices but shall include the cost of fasteners and the price shall be for a metre length of the panels, 2.4 meter height measured in the plan view of appropriate approved drawings. The fencing panel should be made with 8 SWG Wire.	Metre	210.00	123.00	25830.00
					Total	683340.00
Item- 16 Supply and erection of fencing uprights						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply and erection of fencing uprights painted with two coats of red oxide zinc chromate primer to IS-2074:1992 and finished with two coats of aluminium paint The price shall be on the basis of black weight of the steel with no deduction for holes or skew cut or no increase for weld materials. The cost of foundation of uprights will be paid under Item-2.	MT	4.00	94247.00	376988.00
2	2	The price shall cover supply and erection of fencing uprights painted with two coats of red oxide zinc chromate primer to IS-2074:1992 and finished with two coats of aluminium paint The price shall be on the basis of black weight of the steel with no deduction for holes or skew cut or no increase for weld materials. The cost of foundation of uprights will be paid under Item-2.	MT	4.00	5866.00	23464.00
					Total	400452.00
Item- 17 Supply and erection of anticlimbing device for Switching stations						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply with erection of an anti-climbing device consisting of steel fixture sand galvanized barbed wire mounted on the fencing panels as per approved drawings. The price shall be per meter length of the panel. The price shall include painting of the fixtures with two coats of red oxide zinc chromate primer and finished with two coats of Aluminum paint as per IS: 2339.	Metre	105.00	264.00	27720.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply with erection of an anti-climbing device consisting of steel fixture sand galvanized barbed wire mounted on the fencing panels as per approved drawings. The price shall be per meter length of the panel. The price shall include painting of the fixtures with two coats of red oxide zinc chromate primer and finished with two coats of Aluminum paint as per IS: 2339.	Metre	105.00	13.00	1365.00
					Total	29085.00
Item- 18 Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply with erection of an anti-climbing device consisting of steel fixture sand galvanized barbed wire mounted on the fencing panels as per approved drawings. The price shall be per meter length of the panel. The price shall include painting of the fixtures with two coats of red oxide zinc chromate primer and finished with two coats of Aluminum paint as per IS: 2339.	Each	50.00	1009.00	50450.00
2	2	The price shall cover supply with erection of an anti-climbing device consisting of steel fixture sand galvanized barbed wire mounted on the fencing panels as per approved drawings. The price shall be per meter length of the panel. The price shall include painting of the fixtures with two coats of red oxide zinc chromate primer and finished with two coats of Aluminum paint as per IS: 2339.	Each	50.00	458.00	22900.00
					Total	73350.00
Item- 19 Supply and erection of anti-monkey menace.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or ltest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	858.00	3808.00	3267264.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or Itest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	858.00	458.00	392964.00
					Total	3660228.00
Item- 20	Supply & Erection of protective screens on ROB/FOB					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	10.00	18648.00	186480.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	10.00	7992.00	79920.00
					Total	266400.00
Item- 21	Supply of steel reinforcement for RCC work including cost of cutting, straightening, bending, biding, erecting and placing & keeping in position including all lead & lift & including cost of binding wire					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	21	The Item covers the price of supply of tested quality of steel for reinforcement of appropriate size and for reinforcement steel above 8 mm or suitable dia shall be High strength deformed steel bars conforming to IS:1786/1985 and below 8 mm dia shall be mild steel and medium tensile steel bars conforming to IS:432(Pt.I)/1982. Price shall cover the cost towards cutting, straightening hooking, bending, binding, erecting and placing and keeping in position including all lead and lift and including cost of binding wire Test certificates for steel will be furnished by the Contractor at his own cost from a laboratory approved by the Engineer-in-Charge. Nothing extra will be paid for unauthorized overlaps and wastage of steel involved in cutting the bars to their required sizes.	MT	1.00	69261.00	69261.00
					Total	69261.00
Schedule	Schedule 4-Section-IV: Non Ferrous for SMLA - TBA Project					
Item- 1	Supply and erection of span wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az) .	Metre	200.00	1532.00	306400.00
2	2	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az) .	Metre	200.00	90.00	18000.00
					Total	324400.00
Item- 2 Supply and erection of Over Head Equipment only.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender Document respective items explanatory note	Kilometre	75.00	135075.00	10130625.00
2	2	See the Tender Document respective items explanatory note	Kilometre	75.00	53615.00	4021125.00
					Total	14151750.00
Item- 3 Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 150 sqmm (37/2.25 mm). The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	2.80	1802160.00	5046048.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 150 sqmm (37/2.25 mm). The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	2.80	4972.00	13921.60
					Total	5059969.60
Item- 4		Supply without Insulator & erection of a section insulator assembly				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No.Description of componentsQty. per unit1120 or 1120-1(1122 & 1123Catenary ending clamp2 set 1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set 6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied bythe Contractor.	Each	15.00	50580.00	758700.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No. Description of components Qty. per unit 1120 or 1120-1(1122 & 1123 Catenary ending clamp2 set 1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set 6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied bythe Contractor.	Each	15.00	5339.00	80085.00
					Total	838785.00
Item- 5	Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly complete assembly. The price shall also cover end fitting for contact & catenary wire and other material required for erection & smooth operation with earthing arrangement. The short neutral assembly to be as per RDSO specification No. TI/SPC/OHE /SNS/0000 Rev.-1 with A&C Slip No.1or latest. Neutral section should be purchase from RDSO/CORE approved source only. The material is suitable for i.e. 65 sq.mm Catenary and 107 sq.mm contact wires. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	2.00	1129336.00	2258672.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly complete assembly. The price shall also cover end fitting for contact & catenary wire and other material required for erection & smooth operation with earthing arrangement. The short neutral assembly to be as per RDSO specification No. TI/SPC/OHE /SNS/0000 Rev.-1 with A&C Slip No.1or latest. Neutral section should be purchase from RDSO/CORE approved source only. The material is suitable for i.e. 65 sq.mm Catenary and 107 sq.mm contact wires. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	2.00	8222.00	16444.00
Total						2275116.00
Item- 6 Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	earth contact assembly The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	14.00	44261.00	619654.00
2	2	earth contact assembly The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	14.00	4867.00	68138.00
Total						687792.00
Item- 7 Supply without Insulators & erection of 25kV Double Pole Isolator						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	4.00	78000.00	312000.00
2	2	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	4.00	5284.00	21136.00
					Total	333136.00
Item- 8 Extra for supply & erection of an earth contact assembly in an isolator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be payable as extra for supply and erection of an earth contact assembly in any isolator. The price shall cover the cost of supply and erection of 3x25 mm copper connections between the earth contact assembly and the structures.	Each	3.00	14846.00	44538.00
2	2	The price shall be payable as extra for supply and erection of an earth contact assembly in any isolator. The price shall cover the cost of supply and erection of 3x25 mm copper connections between the earth contact assembly and the structures.	Each	3.00	578.00	1734.00
					Total	46272.00
Item- 9 Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 160 sq.mm connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	150.00	7801.00	1170150.00
2	2	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 160 sq.mm connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	150.00	589.00	88350.00
					Total	1258500.00
Item- 10	Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	70.00	911.00	63770.00
2	2	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	70.00	589.00	41230.00
					Total	105000.00
Item- 11	Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	150.00	2580.00	387000.00
2	2	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	150.00	589.00	88350.00
					Total	475350.00
Item- 12	Supply of materials and erection of large copper jumper 160 Sq. mm between Aluminium bus and cross feeders					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender Document.	Each	20.00	9155.00	183100.00
2	2	See the Tender Document.	Each	20.00	589.00	11780.00
					Total	194880.00
Item- 13	Supply of materials and erection of large copper jumper 160 Sq. mm between cross feeder and OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	This jumper shall be provided between copper cross feeders and OHE. The price shall cover supply of 160 sq_mm flexible copper jumper wire, made of annealed standard 100% pure copper conductor as per RDSOs specification TI/SPC/OHE/JMP/0941 (or latest spec and all components and fittings required for providing a flexible (160 Sq. mm) between copper cross feeder and existing OHE, including Parallel clamps (1030-3 & 1050-3) complete with fasteners etc as required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall cover providing (Supply & Erection) for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Each	16.00	14260.00	228160.00
2	2	This jumper shall be provided between copper cross feeders and OHE. The price shall cover supply of 160 sq_mm flexible copper jumper wire, made of annealed standard 100% pure copper conductor as per RDSOs specification TI/SPC/OHE/JMP/0941 (or latest spec and all components and fittings required for providing a flexible (160 Sq. mm) between copper cross feeder and existing OHE, including Parallel clamps (1030-3 & 1050-3) complete with fasteners etc as required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall cover providing (Supply & Erection) for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Each	16.00	589.00	9424.00
					Total	237584.00
Item- 14 Supply and erection of copper strips for equipment earthing.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted.he price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	150.00	933.00	139950.00
2	2	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted.he price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	150.00	121.00	18150.00
					Total	158100.00
Item- 15 Supply & erection of Solid copper bus-bars 18mm.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 18mm solid copper busbar as per latest RDSO/CORE specification or drawing.	Metre	150.00	2894.00	434100.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost for Supply & Erection of 18mm solid copper busbar as per latest RDSO/CORE specification or drawing.	Metre	150.00	169.00	25350.00
Total						459450.00
Item- 16	Supply & Erection of Tubular Aluminium Bushars 50x39mm Dia.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 50/39 mm Al. bus bars procured from CORE approved sources in standard length. Bus bar shall be made of aluminium alloy grade63401 (WP condition to IS:5082-1981 or latest. The tolerance on diameter & thickness shall be as per Class-I of IS:2673-1979 or latest. The bus bar shall be clean, smooth, mechanically sound and free from surface and other defects. The open end of bus-bar shall be covered by suitable tube cap. No splicing normally be allowed in the tubular bus-bars, unless the bus-bars exceeds 6M.	Metre	320.00	1100.00	352000.00
2	2	The price shall cover cost for Supply & Erection of 50/39 mm Al. bus bars procured from CORE approved sources in standard length. Bus bar shall be made of aluminium alloy grade63401 (WP condition to IS:5082-1981 or latest. The tolerance on diameter & thickness shall be as per Class-I of IS:2673-1979 or latest. The bus bar shall be clean, smooth, mechanically sound and free from surface and other defects. The open end of bus-bar shall be covered by suitable tube cap. No splicing normally be allowed in the tubular bus-bars, unless the bus-bars exceeds 6M.	Metre	320.00	105.00	33600.00
Total						385600.00
Item- 17	Supply & Erection of Rigid Bimetallic Terminal Connector Suitable for 50 Dia Aluminium Tubular Busbar to Terminal Pad of 25kV Isolator/CT (RI-11090).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of Rigid Bimetallic Terminal Connector Suitable for 50 Dia Aluminium Tubular Busbar to Terminal Pad of 25kV Isolator/CT (RI-11090) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3680.00	36800.00
2	2	The price shall cover cost for Supply & Erection of Rigid Bimetallic Terminal Connector Suitable for 50 Dia Aluminium Tubular Busbar to Terminal Pad of 25kV Isolator/CT (RI-11090) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
Total						37420.00
Item- 18	Supply & Erection of Expansion Type Terminal Connector to Suit 50 Dia Aluminium Tubular Busbar, Terminal Pad of 25kV CT/Isolator (RI-11060).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for Supply & Erection of Expansion Type Terminal Connector to Suit 50 Dia Aluminium Tubular Busbar, Terminal Pad of 25kV CT/Isolator (RI-11060) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	6555.00	65550.00
2	2	The price shall cover cost for Supply & Erection of Expansion Type Terminal Connector to Suit 50 Dia Aluminium Tubular Busbar, Terminal Pad of 25kV CT/Isolator (RI-11060) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	66170.00
Item- 19	Supply & Erection of 25kV System Rigid Bus Splice Connector to Suit 50 O/D Aluminium Tube on Both Ways (RI-11180).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 25kV System Rigid Bus Splice Connector to Suit 50 O/D Aluminium Tube on Both Ways (RI-11180) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3497.00	34970.00
2	2	The price shall cover cost for Supply & Erection of 25kV System Rigid Bus Splice Connector to Suit 50 O/D Aluminium Tube on Both Ways (RI-11180) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	35590.00
Item- 20	Supply & Erection of 25kV System TEE Connector to Suit 50 O/D Aluminium Tubular Busbar (RI-11150).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 25kV System TEE Connector to Suit 50 O/D Aluminium Tubular Busbar (RI-11150) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3498.00	34980.00
2	2	The price shall cover cost for Supply & Erection of 25kV System TEE Connector to Suit 50 O/D Aluminium Tubular Busbar (RI-11150) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	35600.00
Item- 21	Supply & Erection of Rigid Through Connector to Suit 50 Dia Aluminium Tubular Busbar & SPIDER AAC Conductor for 25kV P.T Type-II (RI-11110).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for Supply & Erection of Rigid Through Connector to Suit 50 Dia Aluminium Tubular Busbar & SPIDER AAC Conductor for 25kV P.T Type-II (RI-11110) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3167.00	31670.00
2	2	The price shall cover cost for Supply & Erection of Rigid Through Connector to Suit 50 Dia Aluminium Tubular Busbar & SPIDER AAC Conductor for 25kV P.T Type-II (RI-11110) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	32290.00
Item- 22	Supply & Erection of 25kV System Expansion Bus Coupler on SI to Suit 50 O/D Al. Tube (RI-11120).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply & Erection of 25kV System Expansion Bus Coupler on SI to Suit 50 O/D Al. Tube (RI-11120).	Each	10.00	7787.00	77870.00
2	2	Supply & Erection of 25kV System Expansion Bus Coupler on SI to Suit 50 O/D Al. Tube (RI-11120).	Each	10.00	62.00	620.00
					Total	78490.00
Item- 23	Supply & Erection of 25kV System Tee Connector to Suit 50 O/D Aluminium Tubular Spider AAC Conductor (RI-11140).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 25kV System Tee Connector to Suit 50 O/D Aluminium Tubular Spider AAC Conductor (RI-11140) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3191.00	31910.00
2	2	The price shall cover cost for Supply & Erection of 25kV System Tee Connector to Suit 50 O/D Aluminium Tubular Spider AAC Conductor (RI-11140) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	32530.00
Item- 24	Supply & Erection of 25kV System Tee to Suit ZEBRA (28.58 Dia) ACSR Conductor on Both Ways (RI-11040).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 25kV System Tee to Suit ZEBRA (28.58 Dia) ACSR Conductor on Both Ways (RI-11040) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	3412.00	34120.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost for Supply & Erection of 25kV System Tee to Suit ZEBRA (28.58 Dia) ACSR Conductor on Both Ways (RI-11040) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	34740.00
Item- 25	Supply & Erection of Rigid Terminal Conductor Suitable for 20 Dia Al. Conductor To Terminal Pad of 132/66 kV CB, Isolator & 25kV PT Type I & II (RI-11120).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of Rigid Terminal Conductor Suitable for 20 Dia Al. Conductor to Terminal Pad of 132/66 kV CB, Isolator & 25kV PT Type I & II (RI-11120) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	2809.00	28090.00
2	2	The price shall cover cost for Supply & Erection of Rigid Terminal Conductor Suitable for 20 Dia Al. Conductor to Terminal Pad of 132/66 kV CB, Isolator & 25kV PT Type I & II (RI-11120) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	28710.00
Item- 26	Supply & Erection of Rigid Connector On SI To Suit 50 Mm O/D Al. Bus Bar (RI-11200).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of Rigid Connector On SI To Suit 50 Mm O/D Al. Bus Bar (RI-11200) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	1375.00	13750.00
2	2	The price shall cover cost for Supply & Erection of Rigid Connector On SI To Suit 50 Mm O/D Al. Bus Bar (RI-11200) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
					Total	14370.00
Item- 27	Supply & Erection of Sliding Clamp for 50mm O/D Al. Bus Bar (RI-11190).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of Sliding Clamp for 50mm O/D Al. Bus Bar (RI-11190) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	2028.00	20280.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover cost for Supply & Erection of Sliding Clamp for 50mm O/D Al. Bus Bar (RI-11190) as per requirement. The price also covers supply of fasteners and bimetallic strip (if applicable). The material shall be procured with latest RDSO specifications and approved source only.	Each	10.00	62.00	620.00
Total					20900.00	
Schedule	Schedule 5-Section-V: Insulator for SMLA - TBA Project					
Item- 1	Supply of Insulators for Cantilever assembly vide RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain stay Arm insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	1260.00	4311.00	5431860.00
Total					5431860.00	
Item- 2	Supply of Insulators for Cantilever assembly vide RE SOR items 4(a)(i) & 4(a)(iii):- Bracket Porcelain (CD-1050 mm)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain Bracket Porcelain insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	1260.00	4136.00	5211360.00
Total					5211360.00	
Item- 3	Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9-Tonne insulators for items 4(b)(i) & 4(b)(iii): Stay Arm Porcelain (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	6.00	5673.00	34038.00
Total					34038.00	
Item- 4	Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	230.00	5673.00	1304790.00
Total					1304790.00	
Item- 5	Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm)					

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b) (i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	100.00	2395.00	239500.00
					Total	239500.00
Item- 6		Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm)				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b) (i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	50.00	3520.00	176000.00
					Total	176000.00
Item- 7		Supply of 9-Tonne insulators for RE SOR items 9(a), (b), (c), (d) & (e):-Porcelain (CD-1050 mm)				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 9(a), (b), (c), (d) & (e):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	50.00	11345.00	567250.00
					Total	567250.00
Item- 8		Supply of 9-Tonne insulator for items 11(a)(i), &11 (a)(ii):- Porcelain (CD-1050 mm)				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 11(a) (i), &11 (a)(ii):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	120.00	5673.00	680760.00
					Total	680760.00
Item- 9		Supply of 9-Tonne insulator for items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items No. 12(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	20.00	14006.00	280120.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

						Total	280120.00
Item- 10	Supply of Sectioning Insulators for 12(c) and 12(cx)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item No. 12(c) and 12(cx) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	8.00	8333.00	66664.00	
						Total	66664.00
Item- 11	Supply of Post & Operating rod insulators for item 13(a)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	15.00	19231.00	288465.00	
						Total	288465.00
Item- 12	Supply of Post & Operating rod insulators for item 13(c)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(c) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines)	Set	15.00	38462.00	576930.00	
						Total	576930.00
Schedule	Schedule 6-Section-VI: Bridge Mast for SMLA - TBA Project						
Item- 1	Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall be covered for Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE on Bridge pier. The price also cover cost for design and calculation of bridge OHE mast and its fixings arrangement calculation (holding down bolt calculation, Base plate calculation etc.) and OHE profile calculation for OHE under steel girder Bridge, Web bridge. The price also cover cost for approval of all these drawing and calculation from Railway Competent Authority open line as well as Construction. The price also cover cost for supply minimum 6 sets of Hard copy on paper/tracing with soft copy. The price also cover cost for submission and preparation of as erected drawing, design & calculation.	Each	1.00	5459.00	5459.00	
						Total	5459.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Item- 2	Scanning of RCC piar capes of Bridges with approved scanner detector /Rebar locator to find out the correct locations of reinforcement in piar caps of bridge up to depth of 900mm at various location marking on safe properly and submit the sketch of each location to avoid any damage to reinforcement of piar caps (work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipments etc.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered cost for Scanning of RCC piar capes of Bridges with approved scanner detector/Rebar locator to find out the correct locations of reinforcement in piar caps of bridge up to depth of 900mm at various location marking on safe properly and submit the sketch of each location to avoid any damage to reinforcement of piar caps(work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipment etc.).	Each	2.00	2059.00	4118.00
Total						4118.00
Item- 3	Drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in piar cap of bridge pair to a depth varying from 500 to 1100 mm under line block using pneumatic driller, compressor etc and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/ concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift (all labour and materials by the contractor. the rate is inclusive of providing lighting arrangements.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered cost for drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in piar cap of bridge pair to a depth varying from 500to 1100 mm under line block as shown in the approved drawing using pneumatic driller, compressor etc using pneumatic driller, compressor etc. and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift. The price shall be covered cost for all required labour and materials arranged by the contractor. The price shall be also covered cost for electricity & lighting arrangements.	Each	24.00	1592.00	38208.00
Total						38208.00
Item- 4	Supply of TGT bolts 25x1350x250 mm dia. Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE / Fasteners/0120 or latest.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered cost for Supply of TGT bolts size of 25x1350x250mm or bolt size shall be vary in length & dia as per calculation submitted by firm and approved by Railway with Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE /Fasteners/0120 or latest.	Kg	240.00	200.00	48000.00
Total						48000.00
Item- 5	Fixing of bolts of 25mm dia1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in piar cap of bridge pair by epoxy goutings UNDER LINE BLOCK conditions at a minimum pressure of 7/kg/cm2 consists of approved quality of epoxy reasin harder and thinner (Araldite, Aradur, Fosroc,& similar make)) by suitable proportions including filler, such as silicon flour etc.					

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered for Fixing of bolts of 25mm dia 1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stonemasonry of RCC slab/CC/ Stone / Brick etc. work in pair cap of bridge pair by epoxy grouting at a minimum pressure of 7/kg/cm ² consists of approved quality of epoxy resin harder and thinner (Araldite, Aradur, Fosroc, & similar make)) by suitable proportions including filler, such as silicon flour etc. as recommends by manufacturer the grouting should be carried after placing the bolts in position including all operation as per bridge code for epoxy grouting and also as directed by the Engineer -in charge with all lead and lift (all labour, materials and tools and plants like pneumatic driller equipment's, pressure injection, air compressor portable generator etc. by the contractor. The contractor's supply of items such as epoxy, resin and hardener should be provided with necessary test certificate for pot life test, strength test from approved test houses. The rate is also inclusive for providing lighting arrangements while execution).	Each	24.00	1837.00	44088.00
					Total	44088.00
Schedule	Schedule 7-Section-VII: Other than SOR Item for SMLA - TBA Project					
Item- 1	Supply of Antibird disc on insulator end fitting.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	2520.00	573.00	1443960.00
2	2	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	2520.00	113.00	284760.00
					Total	1728720.00
Item- 2	Supply of Nylon/plastic Net- High density polyethylene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	1200.00	94.00	112800.00
2	2	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	1200.00	37.00	44400.00
					Total	157200.00
Item- 3 Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & Erection of 10KVA Change over panel as per RDSO specification No. ETI/SPC/PSI/CLS/0020 or latest and suitable for 10 KVA AT Supply. The price also covers cost of Type one junction box and its drawing required to approval of Dy.CEE/CN. The price also cover cost of MCB, any relay, fittings, Glands, fasteners, Lugs etc. for commissioning of panel and smooth working.	Each	6.00	32538.00	195228.00
2	2	The price shall cover cost for supply & Erection of 10KVA Change over panel as per RDSO specification No. ETI/SPC/PSI/CLS/0020 or latest and suitable for 10 KVA AT Supply. The price also covers cost of Type one junction box and its drawing required to approval of Dy.CEE/CN. The price also cover cost of MCB, any relay, fittings, Glands, fasteners, Lugs etc. for commissioning of panel and smooth working.	Each	6.00	3220.00	19320.00
					Total	214548.00
Item- 4 Supply of Station Equipments at SP/SSP as per RDSO Spec. No. TI/RCC/ SCADA/0134 with latest A&C slip with amendments.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The Price shall cover cost for supply & Erection of Remote terminal unit (RTU) for SP/SSP asper RDSO specification No. TI/SPC/RCC/SCADA/0134 or latest and same shall support existing SCADA system at RCC.	Each	4.00	940084.00	3760336.00
2	2	The Price shall cover cost for supply & Erection of Remote terminal unit (RTU) for SP/SSP asper RDSO specification No. TI/SPC/RCC/SCADA/0134 or latest and same shall support existing SCADA system at RCC.	Each	4.00	59146.00	236584.00
					Total	3996920.00
Item- 5 Providing (Supply & erection) of layout board for switching posts.						

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for providing (Supply with erection) of lay-out board for switching post. The board shall be framed with Aluminium section in suitable size. Before supply the board necessary approval should be got from Concern Dy.CEE.	Each	4.00	3674.00	14696.00
					Total	14696.00
Item- 6 Providing (Supply & erection) of SWR/Sectioning diagram board at stations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost for providing (Supply with Erection) of Sectioning/TWR diagram at Stations or TPC Room. The board shall be framed on 6mm Acroleic Sheet. The price shall also cover the cost of designing for Board. The board should be high resolution printing on Vinyle and to be pasted on acrylic sheet with lamination. The price shall also cover for erection /fixing on site with SS stud. Before supply the board necessary approval should be taken from Concern Dy. CEE.	Each	6.00	10518.00	63108.00
					Total	63108.00
Item- 7 Digging of Trench size 450x1000 mm.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover erection of digging of Cable trench 450mm wide and 900mmdepth for laying of different size cable. The price shall also cover for preparation of a detail plan for laying of cable & get approval of Dy.CEE/C before start the work.	Metre	5000.00	26.00	130000.00
					Total	130000.00
Item- 8 Supply & laying of sand and 2nd class bricks in trenches.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and layings of bricks and sand in cable trench for protection of cable. A detail plan for laying of cable and showing method of laying of cable with bricks and sand shall be prepared and get approval of Dy.CEE/C before start the work.	Metre	5000.00	51.00	255000.00
					Total	255000.00
Item- 9 Tree Trimming / cutting.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	9	The price shall cover the cost of all type of tree cutting/trimming in section required for charging of OHE. The price shall cover in this schedule which all tree comes within6mtrs from OHE. The price shall cover the cost of tree cutting from bottom.	Each	50.00	501.00	25050.00
					Total	25050.00
Item- 10 Supply & Erection of Fire Bucket with Stand for Switching Post.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover the cost of Supply & Erection of Fire Bucket with Stand for Switching Post. The work includes the procurement, fabrication, painting, and installation of a complete fire-fighting set at each designated switching post. High-quality galvanized mild steel fire buckets and a heavy-duty steel stand with a protective canopy. Secure installation of the stand at the switching post, typically near the entrance or in a clearly visible, accessible location. The stand should be grouted or firmly bolted to a concrete foundation at the switching post to prevent tipping. Filling of the buckets with clean, dry, and fine-grained sand. All components must comply with RDSO standards and Indian Standard IS 2546. Warranty: Standard tenders often require a warranty period, typically 30 months from delivery. Inspection: Materials are subject to inspection by authorized railway representatives (like RITES or RDSO) before dispatch. Technical specification is as under:- •Fire Buckets: oCapacity: Standard 10 litres. oMaterial: Galvanized mild steel (GMS) with a minimum zinc coating thickness of 0.06 g/cm². oDesign: Round-bottom type to ensure they are not used for general purposes; must have a sturdy handle for easy manual handling. oFinish: Painted with two coats of white paint inside and two coats of signal red paint outside. The word "FIRE" must be painted in black on the outside. •Bucket Stand & Canopy: oFabrication: Made from M.S. Angles (typically 50x50x6mm) and a canopy of 18 SWG MS Sheet to protect the sand from rain. oConfiguration: Usually a 4-bucket or 6-bucket arrangement per stand. oPainting: One coat of red oxide primer followed by two coats of Post Office Red enamel paint.	Set	4.00	4402.00	17608.00
Total						17608.00
Item- 11 Supply & erection of desk for Switching station.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Providing (supply with erection) of desk for Switching station. The price shall cover cost for Desk should be made of Wood and boxes/ drawer should be done for keeping register. The price shall also cover cost for fixing arrangement of desk on wall. The material shall be supplied after approval of Dy.CEE/C. The approval for size of desk shall be taken from concern Dy.CEE.	Each	4.00	2331.00	9324.00
Total						9324.00
Item- 12 Supply & Erection of Name board of switching Post.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for Providing (supply with erection) of Name board of switching Post. Name board of switching Post shall be supplied from CORE/RDSO approved vendor and material shall be asper RDSO/CORE latest specification. The price shall also cover cost for fixing arrangement of Name Board on fencing. The price shall cover cost of require fasteners for fixing.	Each	4.00	2486.00	9944.00
					Total	9944.00
Item- 13	Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Providing (supply with erection) of Standard Wooden Isolator Key Box with glass for SSP & Station. Isolator key box should be made of wooden material with glass in front side. Before supply of this material, Size and item specification shall be got approval from DY.CEE/C. The price shall also cover cost for fixing arrangement on wall. The price shall cover cost of require fasteners for fixing.	Each	7.00	562.00	3934.00
					Total	3934.00
Item- 14	Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	This item covers drilling of horizontal bore by pushing method or any suitable means in all types of soil 1.5 meter below ground level or 2.1 meter below track level for laying of HDDE pipes 150 mm to 450 mm dia by pushing method in presence of Railway representative taking necessary safety precautions of track and movement of trains.	Metre	100.00	2647.00	264700.00
					Total	264700.00
Item- 15	Modification, Upgradation, testing, wiring & commissioning in existing RTU at Site in the section and standard SCADA software at RCC equipments for configuration, integration/ hooking up of additional RTUs of section & adjacent section with master station as per RDSO Spec. No. TI/RCC/SCADA/134 with latest A&C slip with amendments or latest.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Modification Upgradation, testing & commissioning in existing standard SCADA software at RCC equipment's for configuration, integration/ hooking up of additional RTUs of adjacent section with master station as per RDSO Spec. No. TI/RCC/SCADA/ 0134 with latest amendments.	Lumpsum	1.00	406283.00	406283.00
					Total	406283.00
Item- 16	Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover providing utility van for tower wagon crew, shifting of man and Material for the work, supervision of work and other misc. work. The cost shall cover for Fuelling of Diesel/Petrol in utility van, Maintenance Charges, Toll Taxes etc. The price shall also cover for night working and outstation work.	Month	24.00	56133.00	1347192.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

						Total	1347192.00
Item- 17	Supply & erection of fire fighting equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover cost for Providing (supply with erection) of fire extinguisher confirming to IS:2171 or latest. The firefighting equipment shall be suitable to take care of B & C class of fire. The extinguisher shall have 10 Kg. Capacity of dry chemical powder. The price also cover cost for hanging arrangement / suitable clamps.	Each	8.00	4976.00	39808.00	
						Total	39808.00
Item- 18	Supply of First aid Box with Strecher etc.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover supply with erection of standard first Aid box and stretcher with hanging arrangement of GI Sheet with pad lock as approved by the Employer. The list of items containing min the first aid box shall be obtained from employer/engineer.	Each	4.00	1024.00	4096.00	
						Total	4096.00
Item- 19	Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall include Supply and fitting of 02 Nos. PG clamps on either side of RRA clamp as per RDSO SMI No. TI/MI/00058 Rev-I, dtd 10.08.2021. The additional contact wire of Nos. PG clamps on either side (RI No. 1041-2) as per SMI. The work involves bending and fixing of contact wire as per site requirement. Contract wire will be supplied by Railway.	Each	140.00	2700.00	378000.00	
						Total	378000.00
Item- 20	Provision of Buried Rail.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	The price shall cover cost for Providing (supply with erection) of Buried Rail with all required materials except piece of Rail(13mtrs) as per RDSO specification No. TI/SPC/PSI/EARTHING/0210 dtd20.08.2021. The price shall cover cost for Providing Earth electrode with Earth pit, GI Flat size of 75*8 as required for connecting earth electrode to Buried Rail & Buried rail to Running track as mentioned in RDSO specification No.TI/SPC/PSI/EARTHING/0210 dtd20.08.2021. The price shall cover cost for Providing digging, copper rivet, fasteners, Nut bolt, washer, Check nut etc. Rail will be provided by Railway from nearby site/P-way depot. The transportation up to site shall be in contractor's scope. All material except rail shall be supplied by contractor.	Each	2.00	38000.00	76000.00	
						Total	76000.00
Item- 21	Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The Price shall cover cost for Loading, unloading and transportation of all released OHE materials i.e. OHE mast, cantilevers, SI, SP Isolator, Guy rod, insulators, DA, Chair etc. from site to Construction depot. /Scrap depot for DS-8 or as desired by SSE/TRD/C. The price also covers cost for transportation of materials (from OHE depot to Site) which is supplied by Railway and not covered in contractor's supply. The item of transportation of Contact wire, catenary wire, feeder wire and different type of cable shall not be cover under this item.	MT	50.00	5200.00	260000.00
					Total	260000.00
Item- 22	Supply of regulating equipment 5 pulley type complete with all accessories including SS wire rope and counter weight assembly for 2400kgf tension as per RDSO Spec. TI/SPC/OHE/ATD/0060(Rev. 2) or latest for conventional OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	<p>The price shall cover supply of regulating equipment 3 pulley type complete with all accessories including SS wire rope and counter weight assembly for 2400 kgf tension including 9 Tonne adjuster & 9TPorcelain Insulator CD 1050 mm with double strap assembly, and normal/antitheft guide tube assembly (RI5026-4,5,6,7, 3076-4, 5, 6, 7) including supply of regulating equipment as per RDSO Specification No. TI/SPC/OHE/ATD/0060 Rev.-2 with latest A&C Slip or latest and stainless steel wire rope as per Rly Specification No. TI/SPC/OHE/WR/1060(06/2006) With A &C No.1, 2, 3 & 4 or latest, suitable for 5 Pulley ATD required for regulating equipment suitable for 2400 kgf tension asper latest RDSO drawings & specification and small parts steel work, if any. The price shall also cover supply of anti-falling device (with extra fitting 3241 & 3243-01No. each), anti-climbing (stiffener) Angle on Anchoring, double eye distance rod with fasteners counter weight as per RDSO Drawing and mast fittings for all type mast. The price also covers cost for compliance of Latest Technical circular, MI/SMI's, Reliability action plan etc. (if applicable) Galvanization of all component shall be asper Railway Specification No. No. ETI/OHE/13(4/84) with C.S. No. 4(05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. Hot dip zinc galvanization of Guide tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest. The price shall cover the provision of pipe on Hex tie rod of ATD's as per RDSO MI No. TI/MI/0035 Rev-1 dt.28.09.2001 (or latest). The provision on Hex tie rod shall be on ATDs connected on Turnouts, X-overs, Neutral sections, other short tension lengths and tension length with FTA on other end. The length of pipe shall be asper procedure given in RDSO MI. The pipe shall be of 20mm dia GI, medium class asper IS 1161-1979 (or latest). The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).</p>	Each	114.00	107566.00	12262524.00
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**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of regulating equipment 3 pulley type complete with all accessories including SS wire rope and counter weight assembly for 2400 kgf tension including 9 Tonne adjuster & 9TPorcelain Insulator CD 1050 mm with double strap assembly, and normal/antitheft guide tube assembly (RI5026-4,5,6,7, 3076-4, 5, 6, 7) including supply of regulating equipment as per RDSO Specification No. TI/SPC/OHE/ATD/0060 Rev.-2 with latest A&C Slip or latest and stainless steel wire rope as per Rly Specification No. TI/SPC/OHE/WR/1060(06/2006) With A &C No.1, 2, 3 & 4 or latest, suitable for 5 Pulley ATD required for regulating equipment suitable for 2400 kgf tension asper latest RDSO drawings & specification and small parts steel work, if any. The price shall also cover supply of anti-falling device (with extra fitting 3241 & 3243-01No. each), anti-climbing (stiffener) Angle on Anchoring, double eye distance rod with fasteners counter weight as per RDSO Drawing and mast fittings for all type mast. The price also covers cost for compliance of Latest Technical circular, MI/SMI's, Reliability action plan etc. (if applicable) Galvanization of all component shall be asper Railway Specification No. No. ETI/OHE/13(4/84) with C.S. No. 4(05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. Hot dip zinc galvanization of Guide tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest. The price shall cover the provision of pipe on Hex tie rod of ATD's as per RDSO MI No. TI/MI/0035 Rev-1 dt.28.09.2001 (or latest). The provision on Hex tie rod shall be on ATDs connected on Turnouts, X-overs, Neutral sections, other short tension lengths and tension length with FTA on other end. The length of pipe shall be asper procedure given in RDSO MI. The pipe shall be of 20mm dia GI, medium class asper IS 1161-1979 (or latest). The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	114.00	8404.00	958056.00
					Total	13220580.00
Item- 23	"Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	5.00	1406.00	7030.00
					Total	7030.00
Item- 24	"Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	5.00	281.00	1405.00
					Total	1405.00
Item- 25	"Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.					

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Shift	5.00	1707.00	8535.00
					Total	8535.00
Item- 26	Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	700.00	513.30	359310.00
					Total	359310.00
Item- 27	Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	27	The price covers 30% payment done of erection cost of an item under this schedule item which is required Erection under a power block. The price under this item covers extra charges over and above erection rates of items for erection of equipment in the vicinity (less than 2 mtrs) of energized overhead equipment which calls for a power block (shut off of traction power supply). Power block will be arranged by Railway as per suitable demand of contractor. The price payable under this item shall be 30% extra over the erection rates of the items referred to above provide such work is not called for on account of non-compliance with specifications, approved drawings and instructions given by the purchaser from time to time.	Lumpsum	1.00	317137.00	317137.00
					Total	317137.00
Schedule	Schedule 8-Section-I: General for Lakodhara Flyover Project					
Item- 1	Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender Document.	Per Track KM	6.00	23562.00	141372.00
					Total	141372.00
Item- 2	Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover for Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations. The contractor is responsible for recording the precise physical measurements of the OHE at the time of final adjustment and painting these values onto the relevant masts. This is specifically required at all BWA (regulated OHE) where tensioning weights are used. The markings must be clear and durable: The mast surface must be cleaned of rust, scale, or grease before painting. Use high-quality enamel paint. Typically, the background is painted with a white/yellow patch, and the letters/numbers are in black or signal red. Measurements must be taken using a calibrated thermometer and a standard measuring tape after the OHE has been "final-tuned" (final tensioning and staggering completed). Markings are usually placed on the face of the mast (the side facing the track) at a height of approximately 1.5 to 2 metres from the rail level for easy visibility from the ground or a motor trolley.	Each	13.00	180.00	2340.00
					Total	2340.00
Item- 3	Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	12.00	5234.00	62808.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	12.00	1445.00	17340.00
Total					80148.00	
Item- 4	Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & erection of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	9.00	6091.00	54819.00
2	2	The price shall cover cost for Supply & erection of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	9.00	4788.00	43092.00
Total					97911.00	
Item- 5	Supply without Insulator and erection of cut-in (9 Tonne) Insulator					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	20.00	1627.00	32540.00
2	2	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	20.00	1017.00	20340.00
					Total	52880.00
Item- 6 Supply without Insulator and erection of a suspension (9 Tonne) Insulator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	40.00	1572.00	62880.00
2	2	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	40.00	622.00	24880.00
					Total	87760.00
Item- 7 Supply without Insulator and erection of 25 kV Post Insulator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & erection of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	40.00	831.00	33240.00
2	2	The price shall cover cost for supply & erection of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	40.00	414.00	16560.00
					Total	49800.00
Item- 8 Supply and Installation of cables for L.T. Power supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor.	Metre	3000.00	352.00	1056000.00
2	2	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor.'	Metre	3000.00	38.00	114000.00
					Total	1170000.00
Item- 9 Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	2.00	81415.00	162830.00
2	2	See the Tender document.	Each	2.00	12228.00	24456.00
					Total	187286.00
Item- 10 Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	1.00	182451.00	182451.00
2	2	See the Tender document.	Each	1.00	12228.00	12228.00
					Total	194679.00
Item- 11 Supply without Insulator of 25 kV D.O. fuse switch.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	3.00	11625.00	34875.00
2	2	See the Tender document.	Each	3.00	835.00	2505.00
					Total	37380.00
Item- 12 Transfer of equipment from one mast or support to another.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	35.00	2302.00	80570.00
2	2	See the Tender document.	Each	35.00	4319.00	151165.00
					Total	231735.00
Item- 13 Dismantling of Over Head Equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Kilometre	2.00	20202.00	40404.00
					Total	40404.00
Item- 14 Splicing & extension of an anchored overhead equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	20.00	4269.00	85380.00
					Total	85380.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Item- 15	Dismantling of a Section Insulator Assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	2.00	1919.00	3838.00
2	2	See the Tender document.	Each	2.00	4269.00	8538.00
					Total	12376.00
Item- 16	Slewing and Putting Back of OHE in Original Shape.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Sqm	5.00	3398.00	16990.00
					Total	16990.00
Item- 17	Dismantling of an Isolator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	4.00	2393.00	9572.00
					Total	9572.00
Item- 18	Dismantling of a Post / Pedestal Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	16.00	761.00	12176.00
					Total	12176.00
Schedule	Schedule 9-Section-II: Concrete for Lakodhara Flyover Project					
Item- 1	Concrete for OHE & PSI foundation in other than hard soil and rock.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock.	cum	650.00	5641.00	3666650.00
2	2	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock.	cum	650.00	2339.00	1520350.00
					Total	5187000.00
Schedule	Schedule 10-Section-III: Ferrous for Lakodhara Flyover Project					
Item- 1	Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	<p>The price shall cover the cost of supply of O, N and R type portals with components as per RDSO's Drg. No (i)ETVC/0008 Sheet No.1 latest Mod for 'N' type. (ii)ETI/C/0017 Sheet No.1 latest Mod for 'O' type. (iii)ETI/C/0011 Sheet No.1 latest Mod for 'R' type. The structures shall be fabricated from steel conforming to IS-2062f2011 (or latest) Grade - E250 Quality-A IS-808/1989 and galvanised as per RDSOs specification No-ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). The price shall cover, cost of erection, alignment and setting before grouting, wherever required, of portals assembly of boom components and erection of the same. The prices shall also include Supply and erection of galvanised bolts, nuts washers etc. wherever required as per approved designs and drawings. The price shall cover assembling, adjustment and erection of all types of booms including TTC booms and any special structures across the track, not covered under Item The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a portal at platforms. 1.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 2.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid. 3.The price shall also include the straightening of portal uprights etc bent during transit and cutting of masts/portal uprights to suit the site condition. 4.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment. 5.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser. 6.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut. 7.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer. 8.Crane will be arranged by railway for Portal boom erection only on demand by contractor. 9.Materials will be supplied at site of work. 10.Payable unit weights for standard mast.</p>	MT	29.00	107505.00	3117645.00
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**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	<p>The price shall cover the cost of supply of O, N and R type portals with components as per RDSO's Drg. No (i)ETVC/0008 Sheet No.1 latest Mod for 'N' type. (ii)ETI/C/0017 Sheet No.1 latest Mod for 'O' type. (iii)ETI/C/0011 Sheet No.1 latest Mod for 'R' type. The structures shall be fabricated from steel conforming to IS-2062f2011 (or latest) Grade - E250 Quality-A IS-808/1989 and galvanised as per RDSOs specification No-ETI/OHE/13 (4/84) with A&C slip Nos 1 to 4 (or latest). The price shall cover, cost of erection, alignment and setting before grouting, wherever required, of portals assembly of boom components and erection of the same. The prices shall also include Supply and erection of galvanised bolts, nuts washers etc. wherever required as per approved designs and drawings. The price shall cover assembling, adjustment and erection of all types of booms including TTC booms and any special structures across the track, not covered under Item The price shall also include the cost of repairing platform shelters in case the shelter is dismantled/ removed/damaged during the course of erection of a portal at platforms. 1.Galvanization shall be as per Railway Specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest with galvanization thickness of 1000 gram per sq. meter. 2.In case, required size of channels are not available as per approved drawing, higher size of channels can be used with approval of Dy. Chief Electrical Engineer (construction) and payment as per actual black weight will be paid. 3.The price shall also include the straightening of portal uprights etc bent during transit and cutting of masts/portal uprights to suit the site condition. 4.For standard fabrication of steel work or structures for which RDSO/CORE approved drawing are available, the black steel weight of steel work as specified in RDSO/CORE drawing, shall be considered for payment. 5.However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment for the nonstandard fabricated steel work, the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs for approval of the purchaser. 6.There will be no addition for increased weight due to galvanizing or painting or reduction for holes or screw cut. 7.Galvanization damaged during transportation/ carting will be touch up with cold ZINC paints by tenderer. 8.Crane will be arranged by railway for Portal boom erection only on demand by contractor. 9.Materials will be supplied at site of work. 10.Payable unit weights for standard mast.</p>	MT	29.00	9853.00	285737.00
					Total	3403382.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Item- 2	Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	MT	62.00	97468.00	6043016.00
2	2	See the Tender document.	MT	62.00	3393.00	210366.00
					Total	6253382.00
Item- 3	Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	MT	20.00	105197.00	2103940.00
2	2	See the Tender document.	MT	20.00	9853.00	197060.00
					Total	2301000.00
Item- 4	Supply only of fabricated steel SPS other than masts.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost of supply only of all fabricated steel work excluding fasteners which are required to be supplied by the Contractor. The cost of erection for such steel work, If carried out by the Contractor shall be paid for under Item-III. For standard fabricated steel work for which RDSO'S approved drawings are available, the weight of steel work as specified in RDSOS drawing shall be considered for payment. However, in case the unit sectional weight of any member indicated in RDSOs drawing is not in conformity with the unit sectional weight as per the latest IS specification, the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment For the non-standard fabricated steel work, the calculated weight to be considered for payment under this Item shall be included in the relevant drawing based on, latest IS sectional weight at the time of submitting the designs for approval of the Purchaser. The price shall include the cost of supply of bracket top and bottom mast fittings suitable for PSC masts.	MT	10.00	122247.00	1222470.00
					Total	1222470.00
Item- 5	Supply and erection of a Guy Rod Assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	24.00	8497.00	203928.00
2	2	See the Tender document.	Each	24.00	1731.00	41544.00
					Total	245472.00
Item- 6	Supply and erection of 25kV Caution Board / Plate.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site	Each	180.00	374.00	67320.00
2	2	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site	Each	180.00	139.00	25020.00
Total						92340.00
Item- 7 Supply without insulator and erection of Single bracket assembly.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	200.00	10927.00	2185400.00
2	2	See the Tender document.	Each	200.00	1389.00	277800.00
Total						2463200.00
Item- 8 Supply without insulator and erection of a pull off arrangement for one OHE.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	5.00	11043.00	55215.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	5.00	911.00	4555.00
Total						59770.00
Item- 9	Supply and erection of Regulating Equipment (3-Pulley type) with counter weight assembly for conventional/composite OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	12.00	72017.00	864204.00
2	2	See the Tender document.	Each	12.00	5815.00	69780.00
Total						933984.00
Item- 10	Supply without Insulator and erection of materials for termination of Double conductor.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wiper if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	12.00	7755.00	93060.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wirer if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	12.00	1619.00	19428.00
					Total	112488.00
Item- 11	Supply and erection of a GI structure bond.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.EI94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	150.00	812.00	121800.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.El94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	150.00	424.00	63600.00
					Total	185400.00
Item- 12 Supply and erection of a GI longitudinal bond.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	100.00	477.00	47700.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	100.00	382.00	38200.00
					Total	85900.00
Item- 13 Supply & erection of a GI transverse and special bond.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	100.00	1041.00	104100.00
2	2	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	100.00	455.00	45500.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	149600.00
Item- 14	Supply & erection of a single earth electrode.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	20.00	2514.00	50280.00
2	2	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	20.00	1718.00	34360.00
					Total	84640.00
Item- 15	Supply and erection of 8 SWG G.I. wire for earthing .					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	50.00	36.00	1800.00
2	2	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	50.00	31.00	1550.00
					Total	3350.00
Item- 16	Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	30.00	1009.00	30270.00
2	2	See the Tender document.	Each	30.00	458.00	13740.00
					Total	44010.00
Item- 17	Supply and erection of anti-monkey menace.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or ltest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	50.00	3808.00	190400.00
2	2	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or ltest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	50.00	458.00	22900.00
					Total	213300.00
Item- 18	Supply & Erection of protective screens on ROB/FOB.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	6.00	18648.00	111888.00
2	2	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	6.00	7992.00	47952.00
					Total	159840.00
Schedule	Schedule 11-Section-IV: Non-Ferrous for Lakodhara Flyover Project					
Item- 1	Supply and erection of span wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az) .	Metre	200.00	1532.00	306400.00
2	2	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az) .	Metre	200.00	90.00	18000.00
					Total	324400.00
Item- 2 Supply and erection of Over Head Equipment only.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Kilometre	9.00	135075.00	1215675.00
2	2	See the Tender document.	Kilometre	9.00	53615.00	482535.00
					Total	1698210.00
Item- 3 Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 37/2_25 mm. The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	0.20	1802160.00	360432.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 37/2_25 mm. The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	0.20	4972.00	994.40
					Total	361426.40
Item- 4		Supply without Insulator & erection of a section insulator assembly.				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No.Description of componentsQty. per unit1120 or 1120-1(1122 & 1123Catenary ending clamp2 set1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied Contractor.bythe	Each	4.00	50580.00	202320.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No. Description of components Qty. per unit 1120 or 1120-1(1122 & 1123 Catenary ending clamp2 set 1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set 6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied Contractor.bythe	Each	4.00	5339.00	21356.00
					Total	223676.00
Item- 5	Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly complete assembly. The price shall also cover end fitting for contact & catenary wire and other material required for erection & smooth operation with earthing arrangement. The short neutral assembly to be as per RDSO specification No. TI/SPC/OHE /SNS/0000 Rev.-1 with A&C Slip No.1or latest. Neutral section should be purchase from RDSO/CORE approved source only. The material is suitable for i.e. 65 sq.mm Catenary and 107 sq.mm contact wires. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	2.00	1129336.00	2258672.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply and Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly complete assembly. The price shall also cover end fitting for contact & catenary wire and other material required for erection & smooth operation with earthing arrangement. The short neutral assembly to be as per RDSO specification No. TI/SPC/OHE /SNS/0000 Rev.-1 with A&C Slip No.1or latest. Neutral section should be purchase from RDSO/CORE approved source only. The material is suitable for i.e. 65 sq.mm Catenary and 107 sq.mm contact wires. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	2.00	8222.00	16444.00
					Total	2275116.00
Item- 6	Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	4.00	44261.00	177044.00
2	2	The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	4.00	4867.00	19468.00
					Total	196512.00
Item- 7	Supply without Insulators & erection of 25kV Double Pole Isolator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	2.00	78000.00	156000.00
2	2	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	2.00	5284.00	10568.00
					Total	166568.00
Item- 8		Extra for supply & erection of an earth contact assembly in an isolator.				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be payable as extra for supply and erection of an earth contact assembly in any isolator. The price shall cover the cost of supply and erection of 3x25 mm copper connections between the earth contact assembly and the structures.	Each	1.00	14846.00	14846.00
2	2	The price shall be payable as extra for supply and erection of an earth contact assembly in any isolator. The price shall cover the cost of supply and erection of 3x25 mm copper connections between the earth contact assembly and the structures.	Each	1.00	578.00	578.00
					Total	15424.00
Item- 9		Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 105 sq.mm (19/7/1.02mm) connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	15.00	7801.00	117015.00
2	2	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 105 sq.mm (19/7/1.02mm) connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	15.00	589.00	8835.00
					Total	125850.00
Item- 10	Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	20.00	911.00	18220.00
2	2	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	20.00	589.00	11780.00
					Total	30000.00
Item- 11	Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	20.00	2580.00	51600.00
2	2	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	20.00	589.00	11780.00
					Total	63380.00
Item- 12	Supply of materials and erection of large copper jumper 160 Sq. mm between cross feeder and OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	This jumper shall be provided between copper cross feeders and OHE. The price shall cover supply of 160 sq_mm flexible copper jumper wire, made of annealed standard 100% pure copper conductor as per RDSOs specification TI/SPC/OHE/JMP/0941 (or latest spec and all components and fittings required for providing a flexible (160 Sq. mm) between copper cross feeder and existing OHE, including Parallel clamps (1030-3 & 1050-3) complete with fasteners etc as required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall cover providing (Supply & Erection) for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Each	2.00	14260.00	28520.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	This jumper shall be provided between copper cross feeders and OHE. The price shall cover supply of 160 sq_mm flexible copper jumper wire, made of annealed standard 100% pure copper conductor as per RDSOs specification TI/SPC/OHE/JMP/0941 (or latest spec and all components and fittings required for providing a flexible (160 Sq. mm) between copper cross feeder and existing OHE, including Parallel clamps (1030-3 & 1050-3) complete with fasteners etc as required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall cover providing (Supply & Erection) for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Each	2.00	589.00	1178.00
Total						29698.00
Item- 13	Supply and erection of copper strips for equipment earthing.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted the price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	50.00	933.00	46650.00
2	2	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted the price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	50.00	121.00	6050.00
Total						52700.00
Item- 14	Supply & erection of Solid copper bus-bars 18mm.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the tender document.	Metre	50.00	2894.00	144700.00
2	2	See the Tender document.	Metre	50.00	169.00	8450.00
Total						153150.00
Schedule	Schedule 12-Section-V: Insulator for Lakodhara Flyover Project					
Item- 1	Supply of Insulators for Cantilever of RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain stay Arm insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines)	Each	200.00	4311.00	862200.00
Total						862200.00
Item- 2	Supply of Insulators for cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii)Bracket Porcelain (CD-1050 mm).					

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain Bracket Porcelain insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	200.00	4136.00	827200.00
					Total	827200.00
Item- 3		Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm).				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9-Tonne insulators for items 4(b)(i) & 4(b)(iii): Porcelain (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	6.00	5673.00	34038.00
					Total	34038.00
Item- 4		Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm).				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).'	Each	25.00	5673.00	141825.00
					Total	141825.00
Item- 5		Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm).				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	50.00	2395.00	119750.00
					Total	119750.00
Item- 6		Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm).				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b) (i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	30.00	3520.00	105600.00
					Total	105600.00
Item- 7	Supply of 9-Tonne insulators for RE SOR items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	25.00	11345.00	283625.00
					Total	283625.00
Item- 8	supply of 9-Tonne insulator for RE SOR items 11(a)(i), &11 (a)(ii):- Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 11(a) (i), &11 (a)(ii):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	50.00	5673.00	283650.00
					Total	283650.00
Item- 9	supply of 9-Tonne insulator for RE SOR items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items No. 12(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	4.00	14006.00	56024.00
					Total	56024.00
Item- 10	Supply of Sectioning Insulators for 12(c) and 12(cx).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item No. 12(c) and 12(cx) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	4.00	8333.00	33332.00
					Total	33332.00
Item- 11	Supply of Post & Operating rod insulators for item 13(a).					

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	16.00	19231.00	307696.00
					Total	307696.00
Item- 12	Supply of Post & Operating rod insulators for item 13(c).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(c) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines)	Set	10.00	38462.00	384620.00
					Total	384620.00
Schedule	Schedule 13-Section-VI: Bridge Mast for Lakodhara Flyover Project					
Item- 1	Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered for Preparation of design and drawing of Bridge Mast Fixing arrangement for holding of OHE on Bridge pier. The price also cover cost for design and calculation of bridge OHE mast and its fixings arrangement calculation (holding down bolt calculation, Base plate calculation etc.) and OHE profile calculation for OHE under steel girder Bridge, Web bridge. The price also cover cost for approval of all these drawing and calculation from Railway Competent Authority open line as well as Construction. The price also cover cost for supply minimum 6 sets of Hard copy on paper/tracing with soft copy. The price also cover cost for submission and preparation of as erected drawing, design & calculation.	Each/month	1.00	5459.00	5459.00
					Total	5459.00
Item- 2	Scanning of RCC piar capes of Bridges with approved scanner detector /Rebar locator to find out the correct locations of reinforcement in piar caps of bridge up to depth of 900mm at various location marking on safe properly and submit the sketch of each location to avoid any damage to reinforcement of piar caps (work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipments etc.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	2	The price shall be covered cost for Scanning of RCC piers of Bridges with approved scanner detector/Rebar locator to find out the correct locations of reinforcement in pier caps of bridge up to depth of 900mm at various location marking on site properly and submit the sketch of each location to avoid any damage to reinforcement of pier caps(work will be done under traffic condition with contractor ladder staging protection team and all safety arrangement with contractor tools plants equipment etc.).	Each	5.00	2059.00	10295.00
					Total	10295.00
Item- 3	Drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pier cap of bridge pair to a depth varying from 500 to 1100 mm under line block using pneumatic driller, compressor etc and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/ concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift (all labour and materials by the contractor. the rate is inclusive of providing lighting arrangements.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered cost for drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pier cap of bridge pair to a depth varying from 500 to 1100 mm under line block as shown in the approved drawing using pneumatic driller, compressor etc using pneumatic driller, compressor etc. and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift. The price shall be covered cost for all required labour and materials arranged by the contractor. The price shall be also covered cost for electricity & lighting arrangements.	Each	8.00	1592.00	12736.00
					Total	12736.00
Item- 4	Supply of TGT bolts 25x1350x250 mm dia. Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE / Fasteners/0120 or latest.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall be covered cost for Supply of TGT bolts size of 25x1350x250mm or bolt size shall be vary in length & dia as per calculation submitted by firm and approved by Railway with Corrugated surface with hex nut, lock nut, Flat washer and spring washer as per RDSO Specification no. TI / SPC / OHE /Fasteners/0120 or latest.	Kg	80.00	200.00	16000.00
					Total	16000.00
Item- 5	Fixing of bolts of 25mm dia 1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pier cap of bridge pair by epoxy groutings UNDER LINE BLOCK conditions at a minimum pressure of 7/kg/cm ² consists of approved quality of epoxy resin harder and thinner (Araldite, Aradur, Fosroc, & similar make)) by suitable proportions including filler, such as silicon flour etc.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall be covered for Fixing of bolts of 25mm dia 1250mm long up to 1100mm with pressure grouting the existing drilled holes in the existing stonemasonry of RCC slab/CC/ Stone / Brick etc. work in pair cap of bridge pair by epoxy grouting at a minimum pressure of 7/kg/cm ² consists of approved quality of epoxy resin harder and thinner (Araldite, Aradur, Fosroc, & similar make)) by suitable proportions including filler, such as silicon flour etc. as recommends by manufacturer the grouting should be carried after placing the bolts in position including all operation as per bridge code for epoxy grouting and also as directed by the Engineer -in charge with all lead and lift (all labour, materials and tools and plants like pneumatic driller equipment's, pressure injection, air compressor portable generator etc. by the contractor. The contractor's supply of items such as epoxy, resin and hardener should be provided with necessary test certificate for pot life test, strength test from approved test houses. The rate is also inclusive for providing lighting arrangements while execution).	Each	8.00	1837.00	14696.00
Total					14696.00	
Schedule	Schedule 14-Section-VII: Other than SOR for Lakodhara Flyover Project					
Item- 1	Supply of Antibird disc on insulator end fitting.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	400.00	573.00	229200.00
2	2	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	400.00	113.00	45200.00
Total					274400.00	
Item- 2	Supply of Nylon/plastic Net- High density polyethylene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	300.00	37.00	11100.00
2	2	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	300.00	94.00	28200.00
					Total	39300.00
Item- 3 Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & Erection of 10KVA Change over panel as per RDSO specification No. ETI/SPC/PSI/CLS/0020 or latest and suitable for 10 KVA AT Supply. The price also covers cost of Type one junction box and its drawing required to approval of Dy.CEE/CN. The price also cover cost of MCB, any relay, fittings, Glands, fasteners, Lugs etc. for commissioning of panel and smooth working.	Each	2.00	32538.00	65076.00
2	2	The price shall cover cost for supply & Erection of 10KVA Change over panel as per RDSO specification No. ETI/SPC/PSI/CLS/0020 or latest and suitable for 10 KVA AT Supply. The price also covers cost of Type one junction box and its drawing required to approval of Dy.CEE/CN. The price also cover cost of MCB, any relay, fittings, Glands, fasteners, Lugs etc. for commissioning of panel and smooth working.	Each	2.00	3220.00	6440.00
					Total	71516.00
Item- 4 Providing (Supply & erection) of SWR/Sectioning diagram board at stations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The Price shall cover cost for supply & Erection of Remote terminal unit (RTU) for SP/SSP asper RDSO specification No. TI/SPC/RCC/SCADA/0134 or latest and same shall support existing SCADA system at RCC.	Each	4.00	10518.00	42072.00
					Total	42072.00
Item- 5 Digging of Trench size 450x1000 mm.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for providing (Supply with erection) of lay-out board for switching post. The board shall be framed with Aluminium section in suitable size. Before supply the board necessary approval should be got from Concern Dy.CEE.	Metre	1500.00	26.00	39000.00
					Total	39000.00
Item- 6 Supply & laying of sand and 2nd class bricks in trenches.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost for providing (Supply with Erection) of Sectioning/TWR diagram at Stations or TPC Room. The board shall be framed on 6mm Acroleic Sheet. The price shall also cover the cost of designing for Board. The board should be high resolution printing on Vinyle and to be pasted on acrylic sheet with lamination. The price shall also cover for erection /fixing on site with SS stud. Before supply the board necessary approval should be taken from Concern Dy. CEE.	Metre	1500.00	51.00	76500.00
					Total	76500.00
Item- 7 Tree Trimming / cutting.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover erection of digging of Cable trench 450mm wide and 900mmdepth for laying of different size cable. The price shall also cover for preparation of a detail plan for laying of cable & get approval of Dy.CEE/C before start the work.	Each	15.00	501.00	7515.00
					Total	7515.00
Item- 8 Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Providing (supply with erection) of Standard Wooden Isolator Key Box with glass for SSP &Station. Isolator key box should be made of wooden material with glass in front side. Before supply of this material, Size and item specification shall be got approval from DY.CEE/C. The price shall also cover cost for fixing arrangement on wall. The price shall cover cost of require fasteners for fixing.	Each	2.00	562.00	1124.00
					Total	1124.00
Item- 9 Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	This item covers drilling of horizontal bore by pushing method or any suitable means in all types of soil 1.5 meter below ground level or 2.1 meter below track level for laying of HDDE pipes 150 mm to 450 mm dia by pushing method in presence of Railway representative taking necessary safety precautions of track and movement of trains.	Metre	100.00	2647.00	264700.00
					Total	264700.00
Item- 10 Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work.						

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover providing utility van for tower wagon crew, shifting of man and Material for the work, supervision of work and other misc. work. The cost shall cover for Fuelling of Diesel/Petrol in utility van, Maintenance Charges, Toll Taxes etc. The price shall also cover for night working and outstation work.	Month	6.00	56133.00	336798.00
					Total	336798.00
Item- 11 Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include Supply and fitting of 02 Nos. PG clamps on either side of RRA clamp as per RDSO SMI No. TI/MI/00058 Rev-I, dtd 10.08.2021. The additional contact wire of Nos. PG clamps on either side (RI No. 1041-2) as per SMI. The work involves bending and fixing of contact wire as per site requirement. Contract wire will be supplied by Railway.	Each	20.00	2700.00	54000.00
					Total	54000.00
Item- 12 Provision of Buried Rail.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Providing (supply with erection) of Buried Rail with all required materials except piece of Rail(13mtrs) as per RDSO specification No. TI/SPC/PSI/EARTHING/0210 dtd20.08.2021. The price shall cover cost for Providing Earth electrode with Earth pit, GI Flat size of 75*8 as required for connecting earth electrode to Buried Rail & Buried rail to Running track as mentioned in RDSO specification No.TI/SPC/PSI/EARTHING/0210 dtd20.08.2021. The price shall cover cost for Providing digging, copper rivet, fasteners, Nut bolt, washer, Check nut etc. Rail will be provided by Railway from nearby site/P-way depot. The transportation up to site shall be in contractor's scope. All material except rail shall be supplied by contractor.	Each	1.00	38000.00	38000.00
					Total	38000.00
Item- 13 Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The Price shall cover cost for Loading, unloading and transportation of all released OHE materials i.e. OHE mast, cantilevers, SI, SP Isolator, Guy rod, insulators, DA, Chair etc. from site to Construction depot./Scrap depot for DS-8 or as desired by SSE/TRD/C. The price also covers cost for transportation of materials (from OHE depot to Site) which is supplied by Railway and not covered in contractor's supply. The item of transportation of Contact wire, catenary wire, feeder wire and different type of cable shall not be cover under this item.	MT	20.00	5200.00	104000.00
					Total	104000.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

Item- 14	"Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	12.00	1406.00	16872.00
					Total	16872.00
Item- 15	"Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	12.00	281.00	3372.00
					Total	3372.00
Item- 16	"Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	12.00	1707.00	20484.00
					Total	20484.00
Item- 17	Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	200.00	513.30	102660.00
					Total	102660.00
Item- 18	Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	18	The price covers 30% payment done of erection cost of an item under this schedule item which is required Erection under a power block. The price under this item covers extra charges over and above erection rates of items for erection of equipment in the vicinity (less than 2 mtrs) of energized overhead equipment which calls for a power block (shut off of traction power supply). Power block will be arranged by Railway as per suitable demand of contractor. The price payable under this item shall be 30% extra over the erection rates of the items referred to above provide such work is not called for on account of non-compliance with specifications, approved drawings and instructions given by the purchaser from time to time.	Lumpsum	1.00	168688.00	168688.00
					Total	168688.00
Schedule	Schedule 15-Section-I: General for Y connecion Vishwamitri to Pratapnagar Project					
Item- 1	Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan, SED,CSD.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Per Track KM	3.00	23562.00	70686.00
					Total	70686.00
Item- 2	Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover for Marking/Painting of temperature & 'Y'-Measurement of OHE mast at BWA locations. The contractor is responsible for recording the precise physical measurements of the OHE at the time of final adjustment and painting these values onto the relevant masts. This is specifically required at all BWA (regulated OHE) where tensioning weights are used. The markings must be clear and durable: The mast surface must be cleaned of rust, scale, or grease before painting. Use high-quality enamel paint. Typically, the background is painted with a white/yellow patch, and the letters/numbers are in black or signal red. Measurements must be taken using a calibrated thermometer and a standard measuring tape after the OHE has been "final-tuned" (final tensioning and staggering completed). Markings are usually placed on the face of the mast (the side facing the track) at a height of approximately 1.5 to 2 metres from the rail level for easy visibility from the ground or a motor trolley.	Each	7.00	180.00	1260.00
					Total	1260.00
Item- 3	Supply without insulator and erection of material for termination of Single conductor of Over Head Equipment or terminating wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	7.00	5234.00	36638.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply without insulator and erection of all material necessary for the termination of Single conductor of overhead equipment terminating wire on a traction mast or structure including clevis assembly, with fitting and porcelain 9 tonne insulator assembly (for polluted zone) but excluding terminating wire if any, wherever double termination if required. Materials like equalizing /compensating double strap assembly. It includes the all fasteners required for termination. The price shall also cover Supply without Insulator and erection of materials for Provision of Double composite insulators at termination locations in platform areas to enhance reliability and safety, Anti-Creep, FTAs, etc. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	7.00	1445.00	10115.00
Total					46753.00	
Item- 4	Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & erection of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	3.00	6091.00	18273.00
2	2	The price shall cover cost for Supply & erection of complete Anti-creep assembly including 9T insulators, Terminations, copper anti creep wire etc. over and above as included in item no. E39. The copper wire will be supplied by railway from concern SSE's store. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	3.00	4788.00	14364.00
Total					32637.00	
Item- 5	Supply without Insulator and erection of cut-in (9 Tonne) Insulator					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	8.00	1627.00	13016.00
2	2	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain cut-in- insulator including Double strap, Catenary wire or contact wire ending cone etc. as per latest RDSO/CORE specification. The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051).	Each	8.00	1017.00	8136.00
					Total	21152.00
Item- 6 Supply without Insulator and erection of a suspension (9 Tonne) Insulator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	10.00	1572.00	15720.00
2	2	The price shall cover cost for supply & erection of complete 25 KV solid core long creepage Porcelain suspension insulator assembly including Double strap, single eye clevis, suspension clamp etc. as per latest RDSO/CORE specification and drawings.	Each	10.00	622.00	6220.00
					Total	21940.00
Item- 7 Supply without Insulator and erection of 25 kV Post Insulator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & erection of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	16.00	831.00	13296.00
2	2	The price shall cover cost for supply & erection of 25KV Post Insulator with fasteners and saddles as per RDSO specification No. TI/SPC/OHE/INS/0071 or latest.	Each	16.00	414.00	6624.00
					Total	19920.00
Item- 8 Supply and Installation of cables for L.T. Power supply.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor.	Metre	3000.00	352.00	1056000.00
2	2	Supply and Installation of cables for L.T. Power supply of PVC insulated 2 core, 70 Sqmm, heat resisting insulation cable, ISI marked PVC outer sheeted (FRLSH) of type ST-2 cable (FR-LSH) armoured with aluminium conductor having insulation of PVC Type C suitable for rated voltage at 1100 Volts & confirming to IS:1554 (Part1)/1988 (Reaffirmed 2005) or latest and the cable will be used for fixed/stable wiring with Stranded & Shaped conductor, Aluminium grade H2 or H4 for better Thermal stability i.e. ST-2 and tensile strength of conductor.	Metre	3000.00	38.00	114000.00
					Total	1170000.00
Item- 9 Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (10 kVA).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 10 KVA as per RDSO specification No. ETI/PSI/15(8-2003) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	2.00	81415.00	162830.00
2	2	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 10 KVA as per RDSO specification No. ETI/PSI/15(8-2003) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	2.00	12228.00	24456.00
					Total	187286.00
Item- 10 Supply, Erection, oil-filtration, testing and commissioning of L.T. supply transformers (25 KVA).						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 25 KVA as per RDSO specification No. ETI/PSI/15(8 /03) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14 (1/86) Rev 1 (Apr•87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	1.00	182451.00	182451.00
2	2	The price shall cover cost for supply, Erection, oil-filtration, testing and commissioning of Auxiliary Transformer 25 kV/230 V, 25 KVA as per RDSO specification No. ETI/PSI/15(8 /03) or latest, with 25 KV DO fuse complete assembly including insulators as per RDSO Specification No. ETI/ PSI/14 (1/86) Rev 1 (Apr•87), LV box (including MCB) for AT & Anti climbing device complete including barbed wires etc. the price also cover cost for Clamps, lugs, Name Plate, split arcing horn etc.	Each	1.00	12228.00	12228.00
Total						194679.00
Item- 11 Supply without Insulator of 25 kV D.O. fuse switch.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply, Erection, testing and commissioning of 25 KV DO fuse complete assembly excluding insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87).	Each	3.00	11625.00	34875.00
2	2	The price shall cover cost for supply, Erection, testing and commissioning of 25 KV DO fuse complete assembly excluding insulators as per RDSO Specification No. ETI/ PSI/14(1/86) Rev 1 (Apr87).	Each	3.00	835.00	2505.00
Total						37380.00
Item- 12 Transfer of equipment from one mast or support to another.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support and dismantling of the erected bracket assembly from the old mast of support and consequent adjustment to overhead equipment required such as re-spacing of droppers (including cost of dropper wire), levelling etc. the foundation and steel work and bracket assembly for the new mast or structure will be paid for under appropriate Items and 4 respectively.	Each	15.00	2302.00	34530.00
2	2	The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support and dismantling of the erected bracket assembly from the old mast of support and consequent adjustment to overhead equipment required such as re-spacing of droppers (including cost of dropper wire), levelling etc. the foundation and steel work and bracket assembly for the new mast or structure will be paid for under appropriate Items and 4 respectively.	Each	15.00	4319.00	64785.00
Total						99315.00
Item- 13 Dismantling of Over Head Equipment.						

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling of equipment including Terminations, tensioning devices, guy rod assemblies bracket assemblies and associated small parts steel work (excluding components embedded in concrete) The price also cover cost for cutting of catenary wire, contact wire and other materials for DS-8 purpose (if required) and same will be handed over to concern SSE/C, Railways scrap depot for DS-8 or as desired by SSE/TRD/C. Transportation charges will be given relevant item of transportation.	Kilometre	0.50	20202.00	10101.00
					Total	10101.00
Item- 14 Splicing & extension of an anchored overhead equipment.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover splicing of terminated overhead equipment for extension and consequent adjustment of the affected equipment The dismantled equipment (excluding portions embedded in concrete) shall be returned to the Purchaser's Engineer The cost of dismantling of overhead equipment would be paid for under Item 31(d) for the whole length of the anchoring span Irrespective of the physical position of the splices. The extended overhead equipment shall be deemed as starting from the center line of the structure preceding the old terminating structure and the extended overhead equipment shall be paid for under Item 6(az) or 6(bz) or 6(cz) as applicable.	Each	8.00	4269.00	34152.00
					Total	34152.00
Item- 15 Dismantling of a Section Insulator Assembly.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling 107 sq mm contact wire, 65 sq mm catenary wire, dropper wire and a section insulator, splicing of catenary and contact wires and the necessary adjustments to droppers. The price shall exclude the supply of required copper conductors for the adjustment. The dismantled equipment shall be handed over to the Purchaser's Engineer at the spot of dismantling or at the contactor's Depot's.	Each	2.00	1919.00	3838.00
2	2	The price shall cover cost of dismantling 107 sq mm contact wire, 65 sq mm catenary wire, dropper wire and a section insulator, splicing of catenary and contact wires and the necessary adjustments to droppers. The price shall exclude the supply of required copper conductors for the adjustment. The dismantled equipment shall be handed over to the Purchaser's Engineer at the spot of dismantling or at the contactor's Depot's.	Each	2.00	4269.00	8538.00
					Total	12376.00
Item- 16 Slewing and Putting Back of OHE in Original Shape.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover for temporary slewing or lowering of erected OHE adjusted and unadjusted to ground for special works, at the request of the Purchaser and restoration and re-adjustment of the equipment after completion of special works. The price shall be per span or part thereof, including anchoring spans. Additional components or materials used during such restoration or re-adjustment will be paid for at rates included in schedule 3 plus handling charges of provided such use has, in the opinion of the Purchaser, become necessary due to reasons beyond the control of the Contractor.	Sqm	5.00	3398.00	16990.00
					Total	16990.00
Item- 17 Dismantling of an Isolator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for dismantle of complete isolator including terminal connectors, jumper wire, PG clamps operating rod and support insulators, operating handle and SPS. Transportation charges will be given relevant item of transportation.	Each	2.00	2393.00	4786.00
					Total	4786.00
Item- 18 Dismantling of a Post / Pedestal Insulator.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost of dismantling of an isolator, single or gang-operated, including dismantling of connections to the over-head equipment and associated small parts steel work.	Each	12.00	761.00	9132.00
					Total	9132.00
Schedule Schedule 16-Section-II: Concrete for Y connection Vishwamitri to Pratapnagar Project						
Item- 1 Concrete for OHE & PSI foundation in other than hard soil and rock.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock.	cum	300.00	5641.00	1692300.00
2	2	The price shall include all works mentioned in Item 2(a) in all classes of soil except hard soil, concrete or masonry drains and walls and rock.	cum	300.00	2339.00	701700.00
					Total	2394000.00
Schedule Schedule 17-Section-III Ferrous for Y connection Vishwamitri to Pratapnagar Project						
Item- 1 Supply & erection of fabricated and galvanised structures (O, N & R type portals) with all necessary components other than masts						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	MT	8.00	107505.00	860040.00
2	2	See the Tender document.	MT	8.00	9853.00	78824.00
					Total	938864.00
Item- 2 Supply and erection of structure steel (traction masts) fabricated and galvanised of all type: B-Series Mast						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	MT	25.00	97468.00	2436700.00
2	2	See the Tender document.	MT	25.00	3393.00	84825.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	2521525.00
Item- 3	Supply and erection of special fabricated and galvanised steel structures other than portals & traction masts not covered under items 3(b)(i) & 3(b)(ii).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	MT	9.00	105197.00	946773.00
2	2	See the Tender document.	MT	9.00	9853.00	88677.00
					Total	1035450.00
Item- 4	Supply only of fabricated steel SPS other than masts.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost of supply only of all fabricated steel work excluding fasteners which are required to be supplied by the Contractor. The cost of erection for such steel work, If carried out by the Contractor shall be paid for under Item-III. For standard fabricated steel work for which RDSO'S approved drawings are available, the weight of steel work as specified in RDSOS drawing shall be considered for payment. However, in case the unit sectional weight of any member indicated in RDSOs drawing is not in conformity with the unit sectional weight as per the latest IS specification, the weight of the fabricated steel work shall be calculated on the basis of latest IS specification and the same will be considered for payment For the non-standard fabricated steel work, the calculated weight to be considered for payment under this Item shall be included in the relevant drawing based on, latest IS sectional weight at the time of submitting the designs for approval of the Purchaser. The price shall include the cost of supply of bracket top and bottom mast fittings suitable for PSC masts.	MT	5.00	122247.00	611235.00
					Total	611235.00
Item- 5	Supply and erection of a Guy Rod Assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	12.00	8497.00	101964.00
2	2	See the Tender document.	Each	12.00	1731.00	20772.00
					Total	122736.00
Item- 6	Supply and erection of 25kV Caution Board / Plate.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site	Each	60.00	374.00	22440.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover price of material including Caution Boards, SPS Items, nuts, bolts etc. as required and erection charges Caution Boards shall be of two types. (i)General Caution Notice at entrance to Railway station (Hindi & English) No. ETI/OHE/G/7551 Mod-C (or latest) (ii) Caution Plate 25000 V No. ETI/OHE/Gf7531 Mod-C (or latest) (iii) Price shall be inclusive of Sales tax, Excise duty, Freight etc Boards shall require to be installed on a steel structure/Rail post/wall of a building therefore mode of erection shall be as per requirement of the site	Each	60.00	139.00	8340.00
Total						30780.00
Item- 7 Supply without insulator and erection of Single bracket assembly.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	80.00	10927.00	874160.00
2	2	See the Tender document.	Each	80.00	1389.00	111120.00
Total						985280.00
Item- 8 Supply without insulator and erection of a pull off arrangement for one OHE.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	2.00	11043.00	22086.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a pull-off arrangement to pull one equipment only including supply Of copper conductors, small jumper(50) wire, head-span mast fittings complete with M.S. angle, equalising plate assembly, steady-arm, catenary dropper clip, contact wire swivel clip and fittings excluding solid core insulators (Cost of insulator will be paid in Schedule-I, Section-5). The price shall cover erection of all components including solid core insulators; small jumper wire and conductors. Note:- (i)For composite OHEI a catenary dropper clip with necessary bimetallic strip/ washer to be used in place of catenary dropper clip (Id. No. 1192). (ii) 5 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper for all locations except for those on long Girder Bridges, where wear rate is high for which 7 mm diameter Hard drawn Copper wire shall be used for Register Arm Dropper.	Each	2.00	911.00	1822.00
Total						23908.00
Item- 9	Supply and erection of Regulating Equipment (3-Pulley type) with counter weight assembly for conventional/composite OHE.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	7.00	72017.00	504119.00
2	2	See the Tender document.	Each	7.00	5815.00	40705.00
Total						544824.00
Item- 10	Supply without Insulator and erection of materials for termination of Double conductor.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	conductor The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wirer if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	7.00	7755.00	54285.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	conductor The price shall cover supply of all materials necessary for the yoked termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring clevis assembly, two adjusters, ending dampers for catenary and contact wires, anchor double strap assembly. equalising/ compensating plate and fittings including 9 tonne insulators (Cost Of insulator will be paid in Schedule-I, Section-5), assembly and terminating wiper if any. However, the price shall cover erection of all materials including the 9-tonne insulator assembly. The ending clamp shall be installed correctly duly following instruction given in RDSO SMI No. TI/MI/0051 dt. 08.12.2017 (latest). The price shall cover supply & erection (Provision) of fluorescent red tape before ending cone. (As per RDSO SMI No. TI/MI/0037 Rev-3 and TI/MI/0051). Hot dip zinc galvanization of SPS shall be 1000 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	7.00	1619.00	11333.00
					Total	65618.00
Item- 11	Supply and erection of a GI structure bond.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.EI94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	120.00	812.00	97440.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a structure bond of GI flat 40 x 6 mm required to connecting a traction mast or structures to the nearest non track circuited rail, or earth electrode including all fasteners at both ends. Connection of structure bond to Rail in track circuiting area shall be done as per HQ letter No.EI94/15/1(Comp. No. 677982) dated: 17.10.2025 The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	120.00	424.00	50880.00
					Total	148320.00
Item- 12 Supply and erection of a GI longitudinal bond.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	50.00	477.00	23850.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	1.The price shall cover for Supply and erection of a longitudinal bond of GI flat 40 x 6 mm required an electrical connection across a rail joint between consecutive lengths of rails including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	50.00	382.00	19100.00
					Total	42950.00
Item- 13 Supply & erection of a GI transverse and special bond.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	30.00	1041.00	31230.00
2	2	1.The price shall cover for Supply and erection of a transverse and special bond of GI flat 40 x 6 mm, required a bond between two rails of a track or two rails of adjacent tracks including all fasteners at both ends. The galvanization shall be done as per RDSO specification No. ETI/OHE/13(4/84) with C.S. No. 4 (05/2018) or latest ensuring quality of zinc, base metal, surface preparation. The weight of Zinc coating to be adopted is 750g/sqm. If galvanization is damaged due to hole drilling, welding, cutting, handling, erection etc. the rectification shall be done as per clause 8 of RDSO specification No. ETI/OHE/13(4/84) with ACS 1-4 (using zinc based solder/zinc based paints). 2.The price shall include shaping and drilling of the bond. 3.The price shall also include provision of heat shrinkable PVC sleeve & HDPE pipe as per latest guideline for structure bond under track circuited rail.	Each	30.00	455.00	13650.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	44880.00
Item- 14 Supply & erection of a single earth electrode.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	8.00	2514.00	20112.00
2	2	The price shall cover supply of an earth electrode assembly as per RDSO Drawing No.ETI/PSI/222 Rev-A & ETI/OHE/P/7021 or latest & RDSO specification No. TI/SPC/OHE/Fittings/0130 with A&C Slip No1, ETI-OHE-13 (4-84) may 2018, TI/SPC/OHE/Fittings/0130-10/13-Rev-1 with all accessories & fasteners for switching station of 4.00 mtrs length. The price also covers the provision of a protective concrete box with removable cover. Hot dip zinc galvanization of earth electrode tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	8.00	1718.00	13744.00
					Total	33856.00
Item- 15 Supply and erection of 8 SWG G.I. wire for earthing.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	50.00	36.00	1800.00
2	2	The price shall cover Supply and erection of 8 SWG G.I. wire for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.	Metre	50.00	31.00	1550.00
					Total	3350.00
Item- 16 Supply and erection of anti-climbing device for L.T. Supply Transformer Stations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	20.00	1009.00	20180.00
2	2	See the Tender document.	Each	20.00	458.00	9160.00
					Total	29340.00
Item- 17 Supply and erection of anti-monkey menace.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or ltest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	30.00	3808.00	114240.00
2	2	The price shall include supply and fabrication of Anti Monkey scare measure for OHE mast at Monkey menace prone areas as per RDSO SMI No. TI/MI/0056 Rev-2 or ltest. The AMCD shall be barbed wire frame type as per Drg no TI/SK/OHE/ANTIMON/RDSO/00001/08/0 given in Annexure I OR Cylindrical arrangement as per drawing given in Annexure II. Location and type of AMCD shall be jointly decided by SSE/Elect/Construction and SSE/TRD and approved by Sr.DEE/TRD. One sample for each type of OHE mast /Structure is to be fabricated and submitted to concern SSE for approval before utilization at site. Any modification suggested by concern SSE based on practical implication must be incorporated in the design.	Each	30.00	458.00	13740.00
					Total	127980.00
Item- 18	Supply & Erection of protective screens on ROB/FOB.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	6.00	18648.00	111888.00
2	2	The price shall include design, supply, fabrication & erection of of continuous protective screens across the entire span of ROB and FOBs passing over electrified tracks (Provision of continuous protective screen on FOB and ROB from inside shall be done) as per the RDSO latest drawing No. ETI/C/0068 Mod-H. The price shall cover all materials required for fabrication, including steel angles, tees, expanded metal (Jali), GI sheets, and paints. The price shall also include labour charges for fabrication, transportation, painting, and erection at specified locations. All works must strictly adhere to the Research Designs and Standards Organisation (RDSO) guidelines. Fabrication and erection must follow RDSO Drawing No. ETI/C/0068 Mod-I (latest revision). For ROB, a parapet wall height of 1.80m must be ensured. If the existing wall is lower, a standard protective screen of 1.80m must be provided. Protective screens must be fixed inside the FOB/ROB structure to prevent any components from falling onto the live Over Head Equipment (OHE) wires. All gaps under the screens must be properly closed to prevent rainwater from seeping onto the OHE.	Set	6.00	7992.00	47952.00
					Total	159840.00
Schedule	Schedule 18-Section-IV: Non-Ferrous for Y connection Vishwamitri to Pratapnagar Project					
Item- 1	Supply and erection of span wire.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az)	Metre	250.00	1532.00	383000.00
2	2	The price shall cover supply and erection of a large span wire (130) per meter The payable length in case of head span wires shall be the horizontal distance between the inner faces of all traction masts/structure on which the mast attachments are mounted. and in case of Large Span Wire, the actual length shall be measured at the time of erection. No extra payment shall be made on account of the sag Erections of a meter beyond the first decimal shall be rounded off to the nearest first decimal. NOTE: The quantity for which the payment is made for the supply and erection of large span wire under this Item shall be deducted from the corresponding length in the span for which payment is made under Item 6(az)	Metre	250.00	90.00	22500.00
					Total	405500.00
Item- 2 Supply and erection of Over Head Equipment only.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Kilometre	3.00	135075.00	405225.00
2	2	See the Tender document.	Kilometre	3.00	53615.00	160845.00
					Total	566070.00
Item- 3 Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 37/2_25 mm. The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	0.20	1802160.00	360432.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover the supply and erection of 25 kV feeder wire across/along the track at the location of SP/SSP/FP/BT/Gantries stations. Feeder wire shall be made of hard drawn bare copper conductor of size 37/2_25 mm. The price shall be inclusive of cost of feeder wire but exclusive of termination (which will be paid under Item 8(b)(ix) and small parts steel work complete with bolts, nuts etc if any. The price shall cover supply & erection for Provision of anti-falling arrangement for along feeder jumper connected to OHE.	Kilometre	0.20	4972.00	994.40
					Total	361426.40
Item- 4		Supply without Insulator & erection of a section insulator assembly				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No.Description of componentsQty. per unit1120 or 1120-1(1122 & 1123Catenary ending clamp2 set 1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set 6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied Contractor.bythe	Each	4.00	50580.00	202320.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply of all components required for a standard section insulator assembly (serving both the overhead equipment conductors) including supply of dropper wires for special droppers for supporting the equipment and all terminal fittings for conductors and the section insulator assembly including 9 tonne Insulator (RI No.6020) (Cost of insulator will be paid in Schedule-I, Section-5) on the catenary and Sectioning insulator (RI No.6110). The price shall be exclusive of Contact and Catenary wires, required if any. The price shall cover erection and adjustment of all components including section insulator assembly, 9-ton insulator on the catenary, Sectioning Insulator, Contact wire and droppers. Required quantity of Contact wire for the work shall be supplied by the purchaser. Rly. Ident. No. Description of components Qty. per unit 1120 or 1120-1(1122 & 1123 Catenary ending clamp2 set 1192,'ET1/OHE/SK/333.Catenary dropper dip assemblyAs required 6170Parallel clamp for double contact wire12 set 6180Section insulator dropper assembly3 set 6100Section insulator assemblyTO be supplied Contractor.bythe 60209 tonne insulator assemblyTo be supplied Contractor.bythe	Each	4.00	5339.00	21356.00
					Total	223676.00
Item- 5	Supply without Insulator and erection of a 25 kV single pole isolator without earth contact assembly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	4.00	44261.00	177044.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover Supply without Insulator and erection of a 25 KV, 1600A Single pole isolator complete for SP/SSP's and OHE's as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 and 2 or latest, with mounting base (including 25 KV pedestal insulators-2 Nos. and operating rod insulators- 1 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, integral lock, a 50 mm Brass pad-lock (Make - Godrej, Link), copper jumper for earthing and an Enameled number plate of approved design for each isolator. Hot dip zinc galvanization of operating tube shall be 800 gram/sqmtr as per A&C correction slip no.4 of ETI/OHE/13(4/84) or latest.	Each	4.00	4867.00	19468.00
					Total	196512.00
Item- 6	Supply without Insulators & erection of 25kV Double Pole Isolator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	1.00	78000.00	78000.00
2	2	The price shall cover Supply & Erection of a 25 KV, 3150A Double pole isolator complete as per RDSO specification No. TI/SPC/PSI/ISOLTR/0210 with ACS Slip No.1 or latest, with mounting base (including 25 KV pedestal insulators-4 Nos. and operating rod insulators-2 Nos.), operating rod and operating rod guides required for the operation of the isolator. The price shall also cover supply of Al/Cu strips, Integral lock, a 50 mm Brass pad-lock (Make - Godrej), flexible copper jumper for earthing and an Enameled number plate of approved design for each isolator.	Each	1.00	5284.00	5284.00
					Total	83284.00
Item- 7	Supply & erection of large copper jumpers over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 105 sq.mm (19/7/1.02mm) connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	10.00	7801.00	78010.00
2	2	The price shall cover the supply of large jumper wire size 160 sqmm made of annealed stranded 100% pure copper conductor as per RDSO's specification No. TI/SPC/OHE/JMP/0941 or latest and on a flat rate basis, the supply of all components and fittings required for providing a flexible copper large jumper connection, including supply of parallel dampers, bi-metallic and Aluminium Copper Al-Cu strips, wherever required, and bolted type terminal connectors where ever required The price shall also cover the erection of the complete jumper assembly including jumper Wire. The price shall not, however be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any jumper of 105 sq.mm (19/7/1.02mm) connections in any combination between feeders, lightening arrestors, isolators and boosters' stations. Continuity jumper at Boom anchor anti-creep will be payable under this Item.	Each	10.00	589.00	5890.00
					Total	83900.00
Item- 8	Supply & erection of small copper jumpers over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	10.00	911.00	9110.00
2	2	The price shall cover supply of small jumper wire size 50sq mm (19/1.80 mm) made of annealed stranded pure copper conductor as per as per RDSO/CORE latest drawing and specification No. TI/SPC/OHE/JMP/0941 or latest , and on a flat rate basis, the supply of all components and fittings required for providing a flexible small copper jumper connection, including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, and bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire. The price shall not, however, be applicable for jumper connections already including under Item 6(az) and 10, but shall be applicable for any small jumper connection in any combination required for lightening arresters and Isolators etc. Anti-theft jumper as per drawing No. ETI/OHE/G/05107, with latest mod. for connecting out-of-run OHE with the in running OHE at insulated/un-insulated overlap locations and also anticreep locations at polluted zone wherever considered necessary will be payable under this Item.	Each	10.00	589.00	5890.00
					Total	15000.00
Item- 9	Supply & erection of a copper jumper (5 mm dia dropper wire) over and Excess of item No.2 Overhead equipment.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	20.00	2580.00	51600.00
2	2	The price Shall cover supply Of conductors/jumper wires, and on a flat rate basis, the supply of all components and fittings required for providing a single strand/flexible copper jumper connections not included under Items 6(az), 107 15(a) (ii) & 15(az)(iii), including supply of parallel clamps, Aluminium Copper (Al-Cu) bi-metallic strips, wherever required, including supply of bolted type terminal connector where ever required. The price shall also cover the erection of the complete jumper assembly including jumper wire, to be provided between the Overhead equipment and LT. Transformers, drop out switch. Note: In case the required length of jumper wires vary from the lengths given in column (4) of Annexure-6; the payment/deduction towards the extra/short length of jumper wires supplied 15(d) & 15(e) will be made at the rates given in.	Each	20.00	589.00	11780.00
					Total	63380.00
Item- 10 Supply and erection of copper strips for equipment earthing.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted.he price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	50.00	933.00	46650.00
2	2	The price shall cover supply and erection of 25mmx3mm copper strips to connect the earth terminals of equipments like potential transformers, lightening arrestors, L.T supply transformers and booster transformer to the main masts of the gantries on which they are mounted.he price shall cover all fastenings required for fixing the copper strips along any structure member of the gantry.	Metre	50.00	121.00	6050.00
					Total	52700.00
Item- 11 Supply & erection of Solid copper bus-bars 18mm.						

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Supply & Erection of 18mm solid copper busbar as per latest RDSO/CORE specification or drawing.	Metre	30.00	2894.00	86820.00
2	2	The price shall cover cost for Supply & Erection of 18mm solid copper busbar as per latest RDSO/CORE specification or drawing.	Metre	30.00	169.00	5070.00
					Total	91890.00
Schedule	Schedule 19-Section-V: Insulator for Y connection Vishwamitri to Pratapnagar Project					
Item- 1	Supply of Insulators for Cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii):- Stay Arm Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain stay Arm insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines)	Each	80.00	4311.00	344880.00
					Total	344880.00
Item- 2	Supply of Insulators for cantilever assembly of RE SOR items 4(a)(i) & 4(a)(iii)Bracket Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	2	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain Bracket Porcelain insulator (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	80.00	4136.00	330880.00
					Total	330880.00
Item- 3	Supply of 9-Tonne insulators for RE SOR items 4(b)(i) & 4(b)(iii):- Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9-Tonne insulators for items 4(b)(i) & 4(b)(iii): Stay Arm Porcelain (CD-1050 mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	6.00	5673.00	34038.00
					Total	34038.00
Item- 4	Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	10.00	5673.00	56730.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	56730.00
Item- 5	Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	20.00	2395.00	47900.00
					Total	47900.00
Item- 6	Supply of 9-Tonne insulators for RE SOR items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Composite (CD-1600 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 8(b)(i), (ii), (iii), (vi), (vii),(vii)&(ix):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	10.00	3520.00	35200.00
					Total	35200.00
Item- 7	Supply of 9-Tonne insulators for R SOR items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 9(a), (b), (c), (d)& (e):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	5.00	11345.00	56725.00
					Total	56725.00
Item- 8	Supply of 9-Tonne insulator for RE items 11(a)(i), &11 (a)(ii):-Porcelain (CD-1050 mm).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items 11(a)(i), &11 (a)(ii):- Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	18.00	5673.00	102114.00
					Total	102114.00
Item- 9	supply of 9-Tonne insulator for RE SOR items No. 12(a):- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for items No. 12(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	2.00	14006.00	28012.00
					Total	28012.00
Item- 10	Supply of Sectioning Insulators for 12(c) and 12(cx).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item No. 12(c) and 12(cx) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Each	4.00	8333.00	33332.00
					Total	33332.00
Item- 11	Supply of Post & Operating rod insulators for item 13(a).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(a) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines).	Set	6.00	19231.00	115386.00
					Total	115386.00
Item- 12	Supply of Post & Operating rod insulators for item 13(c).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply of complete 25 KV solid core long creepage Porcelain 9 Tonne insulators for item 13(c) Porcelain (CD-1050mm) as per latest RDSO/CORE specification TI/SPC/OHE/INS/0071 or latest. The price shall cover for 100% testing (joint testing) of insulators shall be done before providing to the line. (As per the latest guidelines)	Set	2.00	38462.00	76924.00
					Total	76924.00
Schedule	Schedule 20-Section-VII: Other than SOR Item for Y connection Vishwamitri to Pratapnagar Project.					
Item- 1	Supply of Antibird disc on insulator end fitting.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	160.00	573.00	91680.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall cover supply & Erection of Antibird disc on ST, BT & 9 ton insulators end fittings as per RDSO Drg No. TI/DRG/OHE/ABD/RDSO/00000/19/0 Rev.-I (Sh-1 & 2) or latest, under RDSO MI No. TI/MI/00059 Rev 3 or latest. The disk shall be made up of polycarbonate of fire-flammability rating of V-2 or higher as per UL94, from Group 01, class 2 of latest from Group 01, Class 2 of ASTM D 3935-2, with additional properties as given in SMI. Material shall be procured from RDSO/CORE Approved vendor.	Each	160.00	113.00	18080.00
					Total	109760.00
Item- 2	Supply of Nylon/plastic Net- High density polyethelene (HDPE) monofilament netting type-III, UV stabilized s per IS 16008(Part-2)-2016/PVC Virgin HDPE Net Preferably in black colour.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	300.00	94.00	28200.00
2	2	The price shall Supply include erection of Anti Bird high density polyethelene (HDPE)monofilament netting type III, UV stabilized as per IS 16008 (Part-2)-2016. PVC virgin HDPE net preferably in black colour on fabricated structure, Portals/TTC, Fabricated DA, Gantry boom, etc. as perRDSO MI No. TI/MI/0050 Rev-IDtd.27.09.2021. The price shall include tying with UV resistant as per para 4.4 of RDSO/SMI.	Sqm	300.00	37.00	11100.00
					Total	39300.00
Item- 3	Supply of 10 KVA Change over panel as per RDSO spec. suitable for 10 KVA AT supply.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for supply & Erection of 10KVA Change over panel as per RDSO specification No. ETI/SPC/PSI/CLS/0020 or latest and suitable for 10 KVA AT Supply. The price also covers cost of Type one junction box and its drawing required to approval of Dy.CEE/CN. The price also cover cost of MCB, any relay, fittings, Glands, fasteners, Lugs etc. for commissioning of panel and smooth working.	Each	2.00	32538.00	65076.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

2	2	The price shall be covered cost for drilling horizontal/ vertical holes of up to 50 mm dia. in the existing stone masonry of RCC slab/CC/ Stone / Brick etc. work in pier cap of bridge pair to a depth varying from 500to 1100 mm under line block as shown in the approved drawing using pneumatic driller, compressor etc using pneumatic driller, compressor etc. and cleaning the holes using compressor for pressure grouting and removing the rock/ soil/concrete fallen due to cavity formation and disposal of surplus spoils at locations and also as directed by the engineer -in charge with all lead and lift. The price shall be covered cost for all required labour and materials arranged by the contractor. The price shall be also covered cost for electricity & lighting arrangements.	Each	2.00	3220.00	6440.00
Total					71516.00	
Item- 4 Providing (Supply & erection) of SWR/Sectioning diagram board at stations.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost for providing (Supply with Erection) of Sectioning/TWR diagram at Stations or TPC Room. The board shall be framed on 6mm Acroleic Sheet. The price shall also cover the cost of designing for Board. The board should be high resolution printing on Vinyle and to be pasted on acrylic sheet with lamination. The price shall also cover for erection /fixing on site with SS stud. Before supply the board necessary approval should be taken from Concern Dy. CEE.	Each	4.00	10518.00	42072.00
Total					42072.00	
Item- 5 Digging of Trench size 450x1000 mm.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover erection of digging of Cable trench 450mm wide and 900mmdepth for laying of different size cable. The price shall also cover for preparation of a detail plan for laying of cable & get approval of Dy.CEE/C before start the work.	Metre	1500.00	26.00	39000.00
Total					39000.00	
Item- 6 Supply & laying of sand and 2nd class bricks in trenches.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover Supply and layings of bricks and sand in cable trench for protection of cable. A detail plan for laying of cable and showing method of laying of cable with bricks and sand shall be prepared and get approval of Dy.CEE/C before start the work.	Metre	1500.00	51.00	76500.00
Total					76500.00	
Item- 7 Tree Trimming / cutting						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover the cost of all type of tree cutting/trimming in section required for charging of OHE. The price shall cover in this schedule which all tree comes within6mtrs from OHE. The price shall cover the cost of tree cutting from bottom.	Each	5.00	501.00	2505.00

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

					Total	2505.00
Item- 8	Supply & Erection of Standarad Wooden Isolator Key Box with glass for SSP & Station.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover cost for Providing (supply with erection) of Standard Wooden Isolator Key Box with glass for SSP & Station. Isolator key box should be made of wooden material with glass in front side. Before supply of this material, Size and item specification shall be got approval from DY.CEE/C. The price shall also cover cost for fixing arrangement on wall. The price shall cover cost of require fasteners for fixing.	Each	2.00	562.00	1124.00
					Total	1124.00
Item- 9	Drilling of horizontal bore below track by pushing method for laying of HDDE pipe of various size upto 450 mm dia.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	This item covers drilling of horizontal bore by pushing method or any suitable means in all types of soil 1.5 meter below ground level or 2.1 meter below track level for laying of HDDE pipes 150 mm to 450 mm dia by pushing method in presence of Railway representative taking necessary safety precautions of track and movement of trains.	Metre	100.00	2647.00	264700.00
					Total	264700.00
Item- 10	Providing utility van for tower wagon crew, shifting of man and material for the work, supervision of work and other misc work.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall cover providing utility van for tower wagon crew, shifting of man and Material for the work, supervision of work and other misc. work. The cost shall cover for Fuelling of Diesel/Petrol in utility van, Maintenance Charges, Toll Taxes etc. The price shall also cover for night working and outstation work.	Month	6.00	56133.00	336798.00
					Total	336798.00
Item- 11	Erection of Additional contact wire piece across RRA clamp with supply & erection of 02 nos. of PG Clamps on either side (contact wire piece shall be supplied by Railway).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	The price shall include Supply and fitting of 02 Nos. PG clamps on either side of RRA clamp as per RDSO SMI No. TI/MI/00058 Rev-I, dtd 10.08.2021. The additional contact wire of Nos. PG clamps on either side (RI No. 1041-2) as per SMI. The work involves bending and fixing of contact wire as per site requirement. Contract wire will be supplied by Railway.	Each	12.00	2700.00	32400.00
					Total	32400.00
Item- 12	Transportation of Railway supply materials/Released material from Railway depots/work site to Work site/Scrap depot.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

1	1	The Price shall cover cost for Loading, unloading and transportation of all released OHE materials i.e. OHE mast, cantilevers, SI, SP Isolator, Guy rod, insulators, DA, Chair etc. from site to Construction depot./Scrap depot for DS-8 or as desired by SSE/TRD/C. The price also covers cost for transportation of materials (from OHE depot to Site) which is supplied by Railway and not covered in contractor's supply. The item of transportation of Contact wire, catenary wire, feeder wire and different type of cable shall not be cover under this item.	MT	20.00	5200.00	104000.00
					Total	104000.00
Item- 13	"Supply & Erection of fittings for provision of false catenary (Catenary ending cone , double strap, contact ending clamp) as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	5.00	1406.00	7030.00
					Total	7030.00
Item- 14	"Erection of fittings for provision of false catenary as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	5.00	281.00	1405.00
					Total	1405.00
Item- 15	"Provision of jumpering arrangement (160 sq.mm copper jumper wire) with PG clamp and related fittings for false catenary as per latest Railway HQ/RDSO guideline of false catenary.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Set	5.00	1707.00	8535.00
					Total	8535.00
Item- 16	Provision of Large-size modified double bolted PG clamps at all G-jumper connections to ensure better electrical continuity and mechanical strength.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	See the Tender document.	Each	200.00	513.30	102660.00
					Total	102660.00
Item- 17	Work under Power Block: Any erection work as per schedule done under power and /or Traffic block is subject to have extra rate.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	17	The price covers 30% payment done of erection cost of an item under this schedule item which is required Erection under a power block. The price under this item covers extra charges over and above erection rates of items for erection of equipment in the vicinity (less than 2 mtrs) of energized overhead equipment which calls for a power block (shut off of traction power supply). Power block will be arranged by Railway as per suitable demand of contractor. The price payable under this item shall be 30% extra over the erection rates of the items referred to above provide such work is not called for on account of non-compliance with specifications, approved drawings and instructions given by the purchaser from time to time.	Lumpsum	1.00	168688.00	168688.00
					Total	168688.00

4. ELIGIBILITY CONDITIONS

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' which ever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (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 the tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii)One similar work costing not less than the amount equal to 60% of advertised value of the tender. Note:- 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.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Execution of any 1500V DC or 25kV AC OHE work	No	No	Not Allowed

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

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
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.

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

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

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

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

5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Elaboration of CA Certificate for tender evaluation	Yes	Yes	Allowed (Mandatory)
2	In support of their credentials, the Tenderers should submit along with their tenders document - List of works completed in the last seven financial years giving description of work, organization for whom executed, approximate value of contract at the time of award, date of award and date of scheduled completion of work, date of actual start, actual completion and final value of contract. Supportive documents/certificates from the organizations with whom worked/are working should be enclosed. A proper balance sheet for turn over from the paying / contracting authorities with list of contractual payment made to the party during qualifying period should be enclosed along with offer for verification.	Yes	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)

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer firm should have Electrical Contractors License granted by the Govt. Tenderers should submit the copy of these certificates along with the tender document, failing which the tender will be summarily rejected	Yes	No	Allowed (Mandatory)
2	Tenderers should submit along with their tenders document - List of Plant and Machinery available on hand (own/hired) and proposed to be inducted (own/ hired) to be given separately for the subject work .	Yes	Yes	Allowed (Mandatory)

6. Documents attached with tender

**DYCEE-C-BRC-ELEC/WESTERN RLY
TENDER DOCUMENT**

Tender No: TR-C-4-2026-27-T

Closing Date/Time: 14/07/2026 15:00

S.No.	Document Name	Document Description
1	GCC_April-2022.pdf	GCC April 2022
2	TenderdocumentsTR-C-04-2025-26.pdf	Tender documents
3	annexurevib.pdf	annexure ViB
4	correctionupto11_compressed.pdf	ACS upto 11 of GCC
5	AnnexureSOR.pdf	SOR annexure

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: SHIV DAYAL

Designation : Dy.CEE/C/BRC