

**NFR-CONST HQ-ELECTRICAL/N F RLY CONSTRUCTION
TENDER DOCUMENT**

Tender No: ELC-RE-MLG-5-25-26-RT

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

cee/con acting for and on behalf of The President of India invites E-Tenders against Tender No **ELC-RE-MLG-5-25-26-RT** Closing Date/Time 15/07/2026 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	Construction and commissioning of 132 KV Transmission line from Dhaligaon/GSS to Runikhata/TSS along with construction & commissioning of 132 KV bay extension at Dhaligaon/GSS and modification of 132 KV track crossing & clearing of 132KV infringement at different locations under Kokrajhar (India) - Gelephu (Bhutan) New Line project (69.05 km) of North-East Frontier Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	15/07/2026 15:00	Date Time Of Uploading Tender	23/06/2026 20:48
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	287757881.57	Tendering Section	ELECTRICAL
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	5755200.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	01/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	2
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 () A- " Supply Part "							164549242.86	
1	a	410.00	MT	147860.44	60622780.40	AT Par	60622780.40	
	Description:- Supply of fabricated galvanised steel lattice members for tower superstructure, stub, gantry, bay & equipment structure complete in all respect (excluding bolts, fastener & nuts) as per IS-2062. Design of tower, bay, gantry & equipments structure with details of members drawing should be got approved from authority concern of Railway/AEGCL before starting of work at site for all the location (Tower steel materials will be procured from AEGCL/Rly approved vendor with conducting inspection by concerned Engineer of Rly/AEGCL) Zine coating, mechanical, chemical & metallurgical properties of the materials should conform the parameters of IS. a) M.S steel/HT steel galvanized member of tower.							
2	a	19.00	MT	166724.85	3167772.15	AT Par	3167772.15	
	Description:- Supply of galvanised nuts & bolts with spring washer, foundation bolt conforming to IS-2633 1972 and approval and inspection should be done by Railway/AEGCL authority before despatching.							
3	Please see Item Breakup for details.				1067321.92	AT Par	1067321.92	
	Description:- Supply of following items according to approved specification, drg & conducting inspection by Rly/AEGCL Authority before dispatch from factory of approved vender.							
4	a	268.00	Numbers	11269.94	3020343.92	AT Par	3020343.92	
	Description:- Supply of materials for grounding of tower with 50 mm dia, 3.65 mm thick, 06 mtr length medium gauge GI pipe with minim 50X6 mm GI strip, nut, bolt etc of zinc coating measured in micron as per IS, (Materials to be tested by Rly/AEGCL Authority before dispatch)							
5	a	2576.00	Numbers	849.42	2188105.92	AT Par	2188105.92	
	Description:- Supply of 120 KN disc type antifog insulator with all accessories as per Rly/AEGCL specification & design.							
5	b	252.00	Numbers	627.81	158208.12	AT Par	158208.12	
	Description:- Supply of 90 KN disc type antifog insulator with all accessories as per Rly/AEGCL spec. Make - ABI/BHEL/ or any other AEGCL/Rly approved make.							

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6	Please see Item Breakup for details.	762977.70	AT Par	762977.70	
	Description:- Supply of following tension/suspension & hardware fittings as per approved drawing & design of AEGCL & conducting test at approved vender's manufacturing premises/Govt recognised Laboratory by Rly/AEGCL Authority.				
7	a	32550.00	Metre	284.66	9265683.00
	Description:- Supply of conductor ACSR PANTHER size 30/3 00/7/3.00 mm as per IS 398/Pt.II/1996 with suitable machinaries,tools and arrangement (Conductor will be dispatched from approved manufacturers premishes after conducting test by AEGCL/Rly Authority)				
8	a	8.00	Numbers	1394.65	11157.20
	Description:- Supply of mid span compression joint suitable for ACSR panther				
9	a	8.00	Numbers	470.82	3766.56
	Description:- Supply of Repair sleeve suitable for ACSR panther				
10	a	268.00	Numbers	1173.33	314452.44
	Description:- Suply of vibration damper 4 R type as per approved drg and spec and coducting test by AEGCL/Rly Authority at approved vendors premishes.				
11	a	33.00	Numbers	2062.51	68062.83
	Description:- Supply of PG clamp for PANTHER to PANTHER ACSR conductor.				
12	a	16.00	Kilometre	236480.02	3783680.32
	Description:- Supply of 48 Fibre (DWSM) OPGW Fibre optic cable as per standard specification approved drawing & design of AEGCL/Railway.				
13	a	6.00	Numbers	37386.83	224320.98
	Description:- Supply of Joint Box (48 Fiber) including coiling bracket as per techical requirement and as per approved spec of AEGCL/Rly.				
14	a	2.00	Numbers	85530.65	171061.30
	Description:- Supply of FODP 48F: Indoor type, rack mounted with FCPC coupling and pig tails (5 mtrs each) as per approved spec of AEGCL/Rly.				
15	a	1.50	Kilometre	113338.76	170008.14
	Description:- Supply of Fibre optic approch cable, 48 fibre (DWSM) as per approved spec of AEGCL/Rly.				
16	a	2.00	Set	169953.63	339907.26
	Description:- Supply of Hardware set for above 48 fibre optic approch cable as per approved spec of AEGCL/Rly.				
17	Please see Item Breakup for details.	3714976.68	AT Par	3714976.68	
	Description:- Supply of SDH equipment (STM-4 MADM, upto 3 MSP protected direction) as per approved spec of AEGCL/Rly.				
18	Please see Item Breakup for details.	8438214.59	AT Par	8438214.59	
	Description:- Supply of Drop & Insert Multiplexer as per AEGCL/Rly approved spec & design.				
19	a	134.00	Numbers	837.80	112265.20
	Description:- Supply of Vibration Damper for OPGW				
20	a	44.00	Numbers	388.22	17081.68
	Description:- Supply of Down Lead Clamp for OPGW				
21	a	16.00	Numbers	3953.00	63248.00
	Description:- Supply of OPGW Tension fitting with earth bond				
22	a	58.00	Numbers	3610.80	209426.40
	Description:- Supply of OPGW Suspension fitting with earth bond				
23	a	20.00	Numbers	1797.14	35942.80
	Description:- Supply of Hanger for 132 KV Suspension Tower				
24	a	3.00	Kilometre	11789000.00	35367000.00
	Description:- Supply of 76/132 KV single core 400 Sqmm stranded annealed electrolytic copper cable of round wire armoured and screened with extruded semiconducting XLPE insulated compound as per approved spec. of AEGCL/Rly. (Cable to be procured based on approved GTP & spec & after satisfactory testing by Rly/AEGCL). Make- Approved brand of AEGCL/Rly.				
24	b	1050.00	Metre	3547.98	3725379.00
	Description:- Supply of 3.8/6.6 KV single core 300 Sqmm bonding XLPE copper cable as per approved spec. of AEGCLRly. (Cable to be procured based on approved GTP & spec & after satisfactory testing by Rly/AEGCL). Make- Approval brand of AEGCLRly.				
25	a	8.00	Numbers	310140.80	2481126.40
	Description:- Supply of outdoor straight through joint of 132 KV S/C copper cable of size 400 sqmm as per approved technical specification of Rly/AEGCL				

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26	a	6.00	Numbers	372980.30	2237881.80	AT Par	2237881.80	
	Description:- Supply and erection of 132 KV Dry type self supporting outdoor termination kit with silicon rubber insulator as per AEGCL/rly approved drawing & design							
27	a	3.00	Set	33331.58	99994.74	AT Par	99994.74	
	Description:- Supply of 1 Ph Link Box with 3 KV SVL suitable for single core bonding cable of STC capacity 40 KA/3S as per approved GTP and Drawing.							
27	b	3.00	Set	25689.43	77068.29	AT Par	77068.29	
	Description:- Supply of 1 Ph Link Box without SVL suitable for single core bonding cable of STC capacity 40 KA/3S as per approved GTP and Drawing.							
28	a	2880.00	Metre	3374.77	9719337.60	AT Par	9719337.60	
	Description:- Supply of HDPE pipe 200mm dia (PN-16.0 grade) for cable protection.							
28	b	924.00	Metre	1022.45	944743.80	AT Par	944743.80	
	Description:- Supply of HDPE pipe 110mm dia (PN-16.0 grade) for cable protection.							
28	c	1224.00	Metre	88.03	107748.72	AT Par	107748.72	
	Description:- Supply of HDPE pipe 40mm dia (PN-16.0 grade) for cable protection.							
29	a	1.00	Set	743037.59	743037.59	AT Par	743037.59	
	Description:- Supply of circuit breaker 132 KV SF6, 3 phase, 3150 Amp, 40 KA (C2-M-2 type with spring-spring mechanism or similar along with all accessories marshalling box etc assembly with support structure complete as per approved technical specification, drawing, design of AEGCL/Rly. Type test should have been completed on the offered model on prior to the opening of tender & should have been under successful operation for at least one year)							
30	Please see Item Breakup for details.				1927271.69	AT Par	1927271.69	
	Description:- Supply of Isolators (3 phase), with core insulator, marshalling boxes, terminal connectors (Motor Operated) with complete moving contact of HDEC copper only. No part of moving contact will be of Aluminium as per approved drawing of Railway/AEGCL							
31	a	3.00	Numbers	398302.57	1194907.71	AT Par	1194907.71	
	Description:- Supply of Current transformers 5 core (1 phase) 1200-600-300-150/1-1-1-1 A, 5 core 0.2 class, 31.5 kA with 120% extended current rating with marshalling boxes, terminal connectors etc as per approved drawing of Railway/AEGCL							
32	a	3.00	Numbers	313103.97	939311.91	AT Par	939311.91	
	Description:- Supply of 8800 pF CVTs (1 phase) with marshalling boxes, terminal connectors etc as per AEGCL/Railway approved design & specification.							
33	a	9.00	Numbers	60632.94	545696.46	AT Par	545696.46	
	Description:- Supply of lightening arrester class - III (1 Phase) 120 KV Heavy Duty, Station Class, Gapless as per AEGCL/Rly approved technical specification complete with marshalling box, terminal and connector etc.							
34	a	1.00	Set	853113.45	853113.45	AT Par	853113.45	
	Description:- Supply of Line bay materials for 132 KV Main Bus & Transfer Bus complete work including all items. The Main Bus shall be of quad ACSR Moose (s/c, b/c) conductor/bus tubes and Transfer bus ,TBC as well as other Feeder & Jumper shall be strung with double Moose conductor/bus tubes Insulator strings (antifog type) & hardware, spacers, conductor, Bus bar material, BMK (Bay Marshalling Kiosk-One no. for each bay), Clamps, Connectors (Compression type except for IPS Tupe, which may be bolted type) including, Junction box, PVC pipes for equipment and lighting, all accessories etc as per AEGCL approved design & spec.							
35	a	12.00	Numbers	15347.49	184169.88	AT Par	184169.88	
	Description:- Supply of 132 KV Solid core type Bus Post Insulators with accessories as per technical specification as per AEGCL/Railway approved design & specification.							
36	a	1.00	Set	2183000.00	2183000.00	AT Par	2183000.00	
	Description:- Supply of 132 KV Control, Relay & protection panel (duplex type & with A/R) with numerical distance protection relay and earth fault / over current relays complying to IEC 61850 Protocol with optical fibre ports sufficient DI/DO for scheme with additional 6 DI/DO for spare. All indicating meters and multi function meters shall be communicable types with 0.5 class accuracy with a 12-window annunciator is included for audible and visual alarms as per approved drawing & design of AEGCL/Rly.							
37	a	1.00	Numbers	48239.23	48239.23	AT Par	48239.23	
	Description:- Supply of Lighting panel (Outdoor) Type ACP-2 as per approved scheme & design of Rly/AEGCL. Complete with all equipment materials & accessories.							
37	b	1.00	Numbers	47368.21	47368.21	AT Par	47368.21	

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	Description:- Supply of Lighting panel (Outdoor) Type ACP-3 as per approved scheme & design of Rly/AEGCL complete with all equipment materials & accessories.							
38	a	12.00	Numbers	13778.32	165339.84	AT Par	165339.84	
	Description:- Supply of LED integral flood light fitting of pressure die casting alluminium body with IP 66 protection and with high power LEDs, secondary lenses and toughened glass. System efficacy 110/125 LPW including 10 kV SPD complete with control gear/driver and all other accessories 150 watt as per Crompton model:LFLN-150-CDL@45<45@M or similar complete with connecting cables, fixing arrangements with GI Bracket/Clamp/GI Clamp/GI Plate/Fastners etc. Make Philips/HPL/Crompton/Bajaj/ Havels.							
39	a	14.00	Numbers	5090.08	71261.12	AT Par	71261.12	
	Description:- Supply of IP-66 Powder coated pressure die cast alluminium compact High Power LED street light with heat resistant tuff hand glass with lens street light fitting 45 watt rating.Efficasy 110 LPW, as per Crompton Model No. LSTS-45-CDL-M or similar. Make: Philiphs/Crompton/Bajaj/HPL/Havells.							
40	a	10.00	Numbers	15502.80	155028.00	AT Par	155028.00	
	Description:- Supply of hot deep galvanized octagonal pole 7 mtr. height conforms to IS complete with arm double/single (90 - 60 - 180 angle) of suitable length as per site condition with provision of electrical connector & control unit comprising of MCB DP 6-32A, 10KA and its fixing accessories, connecting cables 2.5 sq. mm. size twine core suitable for outdoor application from control unit to luminaries & CC foundation with muffing in ratio 1:3:6 of dimension as per site condition and direction of site engineer. Make Bajaj/CG/Philips/BPP or similar.							
41	Please see Item Breakup for details.			614317.60	AT Par	614317.60		
	Description:- Supply for laying of UG LT Cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded aluminium conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/FINOLEX or Similar.							
42	Please see Item Breakup for details.			1235161.20	AT Par	1235161.20		
	Description:- Supply for laying of LT copper control cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded copper conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/RR cable/CABCON/FINOLEX.							
43	Please see Item Breakup for details.			938672.63	AT Par	938672.63		
	Description:- Supply for construction of materials for earthing mat with all materials and accessories as well as spikes as per requirement of design as per IEEE standards for complete earting of grid sub-station with the following. Complete with earth excavation, fitting, dressing etc. as per AEGCL/Rly approved spec & design. (The quantity is tentative and final quantity will depend on actual design):-							
44	a	12.00	Numbers	1025.04	12300.48	AT Par	12300.48	
	Description:- Supply of connection and testing of outdoor type pole/wall mounted cable junction box of following sizes made of thermoplastic polycarbonate (PC-GFS), internally embedded gasket of polyurethane provided with IP65 protection, temperature resistance (- 40 to 120), Halogen & silicon free resistance, chemical resistance, insulation voltage AC/DC 690 V, class-II protection etc. conforms to IEC 60 439-1 (IS 8623) complete with locknuts, groomet and terminals. a) Cable junction box IP 65 thermo plastic poly carbonate size 210X310X116 as per Hensel model K9105 or similar.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-"B" (Erection, Testing & Commissioning Part)							123208638.71	
1	a	16.00	Kilometre	36233.98	579743.68	AT Par	579743.68	
	Description:- To carry out the final spot & check survey and submission of report with route & profile drawings of 132 KV OH transmission line for execution of work and execution of peg marking and submission of drawing for the design and type of tower, gantry, GSS bay, structural drg. foundation design and drawing on the basis of soil bearing capacity with approval of concerned AEGCLand RE/Railway Authority.							
1	b	16.00	Kilometre	36233.98	579743.68	AT Par	579743.68	
	Description:- To carry out the land survey along with 25 mtr wide corridor and for tower base area of proposed 132 KV transmission line to find out land records of land owner/ govt authorities such as khata, khesra, rakwa, jaminbardi, mouza name etc of land owners, valuation of land based on circle rate etc and to prepare all survey related documents and to obtain the verification/approval/genuineness from concerned land official (circle officer/SDM/DM/land aquisition officer) of the state govt. Also if the transmission line comes in forest land then necessary survey to be conducted jointly with forest officers and after going through all documentation and process necessary permission to be obtained from concerned forest department							
	a	1374.00	RM	1856.50	2550831.00	AT Par	2550831.00	

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2	Description:- Carry out exploratory boring as per specification and carry out standard penetration tests as directed by the engineer for the under noted depth below the bed level or below any other level as required during execution of the work with contractor's own labours materials, equipments, plants etc. and submission of report with calculation & result of soil bearing capacity. a) In dry bed or marshy land having water depth up to 1 m above the bed from the bed level upto required depth below bed level						
3	a	1096.00	Each	129.18	141581.28	AT Par	141581.28
	Description:- Carry out exploratory boring as per specification and carry out standard penetration tests as directed by the engineer for the under noted depth below the bed level or below any other level as required during execution of the work with contractor's own labours materials, equipments, plants etc. and submission of report with calculation & result of soil bearing capacity. a) Extra for collecting undistributed soil sample from any depth and for tests on un-disturbed soil sample. One sample at every 1.5 m depth of bore and change of strata including submission of tests results for taking all soil samples						
4	a	7256.00	cum	466.98	3388406.88	AT Par	3388406.88
	Description:- Earth work in excavation for foundation pits of tower, gantry, equipment structural, trench, RCC cable jointing bay etc up to a required depth for normal dry soil including compacted back filling. The pits should be refilled, levelled after completion of foundation works. The excess soil to be removed from the site to a suitable distance from site of tower, gantry, at suitable place as per direction of site Engineer & concerned authority & approved drawing of AEGCL/Rly.						
5	a	3628.00	cum	457.14	1658503.92	AT Par	1658503.92
	Description:- Earth work for back filling with good earth (to be arranged & supplied by contractor) inlayers not exceeding 150 mm including raming, watering layer by layer complete with tools, materials,labours carrying etc for area enclosed by revetment wall etc.						
6	a	1428.00	cum	27970.56	39941959.68	AT Par	39941959.68
	Description:- Execution of P.C.C/R.C.C foundation in proportion 1: 1.5 : 3 (M-20) with maximum size of aggregate 38 mm with shoring, shuttering, batching, mixing, placing, levelling dewatering, pumping etc. for foundation/retaining wall/protection wall/guard wall/RCC cable jointing bay etc and for any other necessary masonry works as per standard procedure and testing of cube. Complete with supply of all materials like cement, sand, chips, clean waters (concrete to be prepared through Mixture machine as per stranded procedure.						
6	b	252.00	cum	24881.51	6270140.52	AT Par	6270140.52
	Description:- Execution of P.C.C/R.C.C foundation in proportion 1: 3 : 6 (M-10) with maximum size of aggregate 38 mm with shoring, shuttering, batching, mixing, placing, levelling dewatering, pumping etc. for foundation/retaining wall/protection wall/guard wall and for any other necessary masonry works. as per standard procedure and testing of cube. Complete with supply of all materials like cement, sand, chips, clean waters (concrete to be prepared through Maxine machine as per stranded procedure.						
7	a	238.00	cum	27970.56	6656993.28	AT Par	6656993.28
	Description:- Additional P.C.C/R.C.C foundation in proportion with maximum size of aggregate 38 mm with shoring, shuttering, batchning, mixing, placing, levelling dewatering, pumping with suitable pumping etc. for all type of tower foundation, gantry foundation & equipment foundation at GSS, upright etc as per standard procedure. Complete with supply of all materials like cement, sand, chips, clean waters (concrete to be prepared through Maxine machine as per stranded procedure. a) With M-20 grade concrete						
7	b	42.00	cum	24881.51	1045023.42	AT Par	1045023.42
	Description:- Additional P.C.C/R.C.C foundation in proportion with maximum size of aggregate 38 mm with shoring, shuttering, batchning, mixing, placing, levelling dewatering, pumping with suitable pumping etc. for all type of tower foundation, gantry foundation & equipment foundation at GSS, upright etc as per standard procedure. Complete with supply of all materials like cement, sand, chips, clean waters (concrete to be prepared through Maxine machine as per stranded procedure. b) With M-10 grade concrete						
8	a	133.00	MT	155308.82	20656073.06	AT Par	20656073.06
	Description:- Erection, binding, bending and installation of steel reinforcement of size above 6 mm by TOR/TMT steel and upto 6 mm by MS steel as per drawing & design for foundation of tower gantry, upright etc including cost all materials, loading, unloading, carrying, labour etc. as per requirement at site.						
9	a	25.00	MT	155308.82	3882720.50	AT Par	3882720.50
	Description:- Erection, binding, bending and installation of Additional steel reinforcement of size above 6 mm by TOR steel and upto 6 mm by MS steel as per requirement of foundation/retaining wall/RCC slab/side wall/pillar etc as per requirement at site. Including cost all materials, loading, unloading, carrying, labour etc.						
10	a	2420.00	Sqm	935.89	2264853.80	AT Par	2264853.80
	Description:- Supply and laying of Bricks (Common burnt clay non modular Bricks) including filling of joints with sands on a bay of Tower footing and for other masonry works.						

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11	Please see Item Breakup for details.			602056.71	AT Par	602056.71	
	Description:- Erection ,setting ,Fixing of stub setting angles complete galvanised with cleats fixture each sets consisting of 4 nos. for each tower with using suitable template and as per approved drawing of Rly/AEGCL. (Template will be arranged by contractor by his own arrangement including loading, unloading carrying etc.)						
12	Please see Item Breakup for details.			8778188.36	AT Par	8778188.36	
	Description:- Erection of galvanised lattice steel (HT & MS) for tower superstructure complete in all respect as per IS-2062 including application of suitable paints up to bottom cross arm level. Design of tower with details of members drawing should be got approved from authority concern of Railway/AEGCL before fabrication and starting foundation work at site for all the location. all tower members to be tightened properly with nut & bolt and tack welding of all nuts & bolt up to the height of cross arm.						
13	Please see Item Breakup for details.			1799622.07	AT Par	1799622.07	
	Description:- Erection of galvanised lattice steel (HT & MS) for tower superstructure complete in all respect as per IS-2062 including application of suitable paints up to bottom cross arm level. Design of tower with details of members drawing should be got approved from authority concern of Railway/AEGCL before fabrication and starting foundation work at site for all the location. all tower members to be tightened properly with nut & bolt and tack welding of all nuts & bolt up to the height of cross arm.						
14	a	134.00	Numbers	136.29	18262.86	AT Par	18262.86
	Description:- Erection of Danger plate for 132 KV as per standard specification & approved drawing..						
14	b	134.00	Numbers	136.29	18262.86	AT Par	18262.86
	Description:- Erection of Phase plate as per standard specification & direction of concerned authority & approved drawing.						
14	c	68.00	Numbers	136.29	9267.72	AT Par	9267.72
	Description:- Erection of Number plates as per standard specification direction of concerned Rly Engineer & approved drawing of AEGCL						
14	d	68.00	Numbers	2601.90	176929.20	AT Par	176929.20
	Description:- Erection of Anticlimbing device for each tower as per direction of AEGCL/Railway.						
14	e	20.00	Numbers	408.87	8177.40	AT Par	8177.40
	Description:- Erection of bird guard for each tower as per approved drawing & designing of AEGCL/Rly						
15	a	268.00	Numbers	14845.89	3978698.52	AT Par	3978698.52
	Description:- Erection and grounding of tower (including measurement of Earth Resistance) with 50 mm dia, 3.65 mm thick,06mtr length,medium gauge with supply of minm 50X6 mm GI strip,nut, bolt etc of zinc coating measured in micron as per IS, and including suppy and layring of Chaocoal,salt after soil treatment as per drawing and direction of site Engineer complete with excavation and back filling. (Materials to be tested by Rly/AEGCL engineer before dispatch).						
16	a	16.00	Kilometre	346984.03	5551744.48	AT Par	5551744.48
	Description:- Stringing of 132 KV S/C DCSS transmission line with 02 phase ACSR panther conductor (without OPGW & earth wire) complete with all works including stringing of conductor, fittings of hardware hoisting of insulator, erection of armour rods & fixing all other accessories of clamps, sleeve, kits, jumper, VD, guard, jointing etc as required.						
17	a	840.00	MT-Km	882.97	741694.80	AT Par	741694.80
	Description:- Carrying of materials manually from Road/High way to different location of towers.						
18	a	16.00	Kilometre	8175.04	130800.64	AT Par	130800.64
	Description:- Erection, testing & commissioning of 48 Fibre (DWDM) OPGW Fibre optic cable (approach cable) including hardware sets, all cable fittings & accessories (except joint box) as per standard specification approved drawing & design of AEGCL/Railway. .						
19	a	1.00	Set	17738.76	17738.76	AT Par	17738.76
	Description:- Installation of Hardware assembly of OPGW						
20	a	6.00	Numbers	11623.00	69738.00	AT Par	69738.00
	Description:- Erection of Joint Box 2/3/4 way (48 Fiber) including coiling bracket as per technical requirement & approved drawing & design of AEGCL/Railway. .						
21	a	1.00	Lumpsum	68457.23	68457.23	AT Par	68457.23
	Description:- Installation, Testing & commissioning of communication equipments and to set up communication through OPGW						
22	a	1.00	Lumpsum	23913.55	23913.55	AT Par	23913.55

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23	a	22.00	Numbers	57.25	1259.50	AT Par	1259.50	
	Description:- Trimming of unwanted Trees branches for erection of tower and for stringing of conductor etc.							
24	a	140.00	Metre	3.58	501.20	AT Par	501.20	
	Description:- Laying of entire stretch of approach cable/communication cable through HDPVC conduit pipe from D/E tower to control room of GSS/TSS & connection with communication equipments as per guideline of AEGCL/Rly							
25	a	1.00	Kilometre	57000.33	57000.33	AT Par	57000.33	
	Description:- Survey of cable route, preparation of route drawing position & finalizing the cable route in consultation with the Engineer of Rly/AEGCL and sub mission of X-sectional drawing of cable trench & route alignment drawing and obtain approved from AEGCL/Rly.							
26	a	3000.00	Metre	292.53	877590.00	AT Par	877590.00	
	Description:- Laying of 132 KV UG cable as per approved plan, drawing and instruction of site engineer through cable trench/conduits/HDD bore holes etc.							
27	a	8.00	Numbers	30975.00	247800.00	AT Par	247800.00	
	Description:- Erection of outdoor straight through joint of 132 KV S/C copper cable of size 400 sqmm as per approved technical specification of Rly/AEGCL							
28	a	6.00	Numbers	71869.43	431216.58	AT Par	431216.58	
	Description:- Erection of outdoor dry type cable termination kit of 132 KV S/C copper cable of size 400 sqmm as per approved technical specification of Rly/AEGCL							
29	a	3.00	Numbers	6195.00	18585.00	AT Par	18585.00	
	Description:- Erection of 1 Ph Link Box with 3 KV SVL suitable for single core bonding cable of STC capacity 40 KA/3S.							
30	a	3.00	Numbers	6195.00	18585.00	AT Par	18585.00	
	Description:- Erection of 1 Ph Link Box without SVL suitable for single core bonding cable of STC capacity 40 KA/3S.							
31	a	25.00	Numbers	2902.98	72574.50	AT Par	72574.50	
	Description:- Construction & fixing of RCC cable marker pillar by M-15 concrete (1:3:4) of size 1.5x0.2x0.2 m showing the details of cable size, voltage grade etc.							
32	a	2280.00	Metre	2431.04	5542771.20	AT Par	5542771.20	
	Description:- HDD machine boring (bore dia 200 mm and above) along and across Rly track/Road/High drain/working site/pond/water submerged area etc. at suitable depth of more than 1.5 mtr below the ground level with suitable boring instruments, machines, equipment & necessary arrangement to insert/lay different sizes of pipes depending upon number & size of cable as per technical procedure along with cable pulling.							
32	b	1670.00	Metre	1238.36	2068061.20	AT Par	2068061.20	
	Description:- HDD machine boring (bore dia 63 mm to 160 mm) along and across Rly track/Road/High drain/working site/pond/water submerged area etc. at suitable depth of more than 1.5 mtr below the ground level with suitable boring instruments, machines, equipment & necessary arrangement to insert/lay different sizes of pipes depending upon number & size of cable as per technical procedure along with cable pulling.							
33	a	30.00	MT	18300.49	549014.70	AT Par	549014.70	
	Description:- Dismantling of existing 132 KV towers by cutting of tower materials with welded bolts, nuts & hardware fittings, insulators etc & loading, unloading on both side including transportation for handing over to 132 KV AEGCL at their depot/store by contractor's own arrangement							
34	a	3000.00	Metre	45.12	135360.00	AT Par	135360.00	
	Description:- Release of existing conductors including loading, unloading on both sides for handing over to AEGCL authority at their depot/store by contractor's own arrangement							
35	a	1.00	Numbers	19675.28	19675.28	AT Par	19675.28	
	Description:- Installation, testing & commissioning of circuit breaker 132 KV SF6, 3 phase, 3150 Amp, 40 KA (C2-M-2 type with spring-spring mechanism or similar along with all accessories marshalling box etc assembly with support structure complete as per approved technical specification, drawing, design of AEGCL/Rly. Type test should have been completed on the offered model on prior to the opening of tender & should have been under successful operation for at least one year)							
	Please see Item Breakup for details.				91824.94	AT Par	91824.94	

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36	Description:- Installation, testing & commissioning of Isolators (3 phase), with core insulator, marshalling boxes, terminal connectors (Motor Operated) with complete moving contact of HDEC copper only. No part of moving contact will be of Aluminium as per approved drawing of Railway/AEGCL						
	a	3.00	Numbers	4589.02	13767.06	AT Par	13767.06
37	Description:- Installation testing commissioning of Current transformers 5 core (1 phase) 1200-600-300-150/1-1-1-1 A, 5 core 0.2 class, 31.5 kA with 120% extended current rating with marshalling boxes, terminal connectors etc as per approved drawing of Railway/AEGCL						
	a	3.00	Numbers	4848.76	14546.28	AT Par	14546.28
38	Description:- Installation testing commissioning of 8800 pF CVTs (1 phase) with marshalling boxes, terminal connectors etc as per AEGCL/Railway approved design & specification.						
	a	9.00	Numbers	1702.69	15324.21	AT Par	15324.21
39	Description:- Erection, testing and commissioning of lightening arrestor class - III (1 Phase) 120 KV Heavy Duty, Station Class, Gapless as per AEGCL/Rly approved technical specification complete with marshalling box, terminal and connector etc.						
	a	1.00	Numbers	89423.59	89423.59	AT Par	89423.59
40	Description:- Installation testing commissioning of Line bay 132 KV Main Bus & Transfer Bus complete works as per approved drawing of AEGCL/Rly including all items. The Main Bus shall be of quad ACSR Moose conductor and Transfer bus, TBC as well as other Feeder & Jumper shall be strung with double Moose conductor (S/C, B/C) Insulator strings (antifog type) & hardware, spacers, conductor, Bus bar material, BMK (Bay Marshalling Kiosk-One no. for each bay), Clamps, Connectors (Compression type except for IPS Tupe, which may be bolted type) including, Junction box, PVC pipes for equipment and lighting, all accessories etc including erection of supporting structure, equipment structure, instrumental structure etc.						
	a	12.00	Numbers	770.85	9250.20	AT Par	9250.20
41	Description:- Installation testing commissioning of 132 KV Solid core type Bus Post Insulators with accessories as per technical specification as per AEGCL/Railway approved design & specification.						
	a	1.00	Numbers	11160.85	11160.85	AT Par	11160.85
42	Description:- Erection of 132 KV Control, Relay & protection panel (duplex type & with A/R) with numerical distance protection relay and earth fault / over current relays complying to IEC 61850 Protocol with optical fibre ports sufficient DI/DO for scheme with additional 6 DI/DO for spare. All indicating meters and multi function meters shall be communicable types with 0.5 class accuracy with a 12-window annunciator is included for audible and visual alarms as per approved drawing & design of AEGCL/Rly.						
	a	1.00	Numbers	3559.28	3559.28	AT Par	3559.28
43	Description:- Erection & commissioning of Lighting panel (Outdoor) Type ACP-2 as per approved scheme & design of Rly/AEGCL. Complete drawing with all equipment materials & accessories.						
	b	1.00	Numbers	3559.28	3559.28	AT Par	3559.28
43	Description:- Erection & commissioning of Lighting panel (Outdoor) Type ACP-3 as per approved scheme & design of Rly/AEGCL. Complete drawing with all equipment materials & accessories.						
	a	12.00	Numbers	517.78	6213.36	AT Par	6213.36
44	Description:- Installation testing of LED integral flood light fitting of pressure die casting alluminium body with IP 66 protection and with high power LEDs, secondary lenses and toughened glass. System efficacy 110/125 LPW including 10 kV SPD complete with control gear/driver and all other accessories 150 watt as per Crompton model:LFLN-150-CDL@45<45@M or similar complete with connecting cables, fixing arrangements with GI Bracket/Clamp/GI Clamp/GI Plate/Fastners etc. Make Philips/HPL/Crompton/Bajaj/ Havels.						
	a	14.00	Numbers	299.26	4189.64	AT Par	4189.64
45	Description:- Testing & fixing of IP-66 Powder coated pressure die cast alluminium compact High Power LED street light with heat resistant tuff hand glass with lens street light fitting 45 watt rating.Efficasy 110 LPW, as per Crompton Model No. LSTS-45-CDL-M or similar. Make: Philiphs/Crompton/Bajaj/HPL/Havells.						
	a	10.00	Numbers	1722.73	17227.30	AT Par	17227.30
46	Description:- Erection of hot deep galvanized octagonal pole 7 mtr. height conforms to IS complete with arm double/single (90 - 60 - 180 angle) of suitable length as per site condition with provision of electrical connector & control unit comprising of MCB DP 6-32A, 10KA and its fixing accessories, connecting cables 2.5 sq. mm. size twine core suitable for outdoor application from control unit to luminaries & CC foundation with muffing in ratio 1:3:6 of dimension as per site condition and direction of site engineer. Make Bajaj/CG/Philips/BPP or similar.						
	Please see Item Breakup for details.				29855.40	AT Par	29855.40
47	Description:- Laying of UG LT Cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded aluminium conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment complete with associated accessories like clamps, glands, lugs, feruls, tagging etc. (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/FINOLEX.						

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48	Please see Item Breakup for details.	66741.80	AT Par	66741.80	
	Description:- Laying of LT copper control cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded copper conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment complete with associated accessories like clamps, glands, lugs, feruls, tagging etc. (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/RR cable/CABCON/FINOLEX.				
49	Please see Item Breakup for details.	260504.09	AT Par	260504.09	
	Description:- Construction of materials for earthing mat as per approved drawing of Rly/AEGCL with all materials and accessories as well as spikes as per requirement of design as per IEEE standards for complete earthing of grid sub-station with the following. Complete with earth excavation, fitting, dressing etc. (The quantity is tentative and final quantity will depend on actual design):-				
50	a	12.00	Numbers	114.09	1369.08
	Description:- Fitting fixing, of connection and testing of outdoor type pole/wall mounted cable junction box of following sizes made of thermoplastic polycarbonate (PC-GFS), internally embedded gasket of polyurethane provided with IP65 protection, temperature resistance (- 40 to 120), Halogen & silicon free resistance, chemical resistance, insulation voltage AC/DC 690 V, class-II protection etc. conforms to IEC 60 439-1 (IS 8623) complete with locknuts, groomet and terminals. a) Cable junction box IP 65 thermo plastic poly carbonate size 210X310X116 as per Hensel model K9105 or similar.				
51	a	1.00	Job	920000.00	920000.00
	Description:- Integration of 132KV bay with SAS at Dhaligaon GSS with SCADA design & engineering , SCADA application development and testing, modification in gateway, HMI modification, DR configuration in DRPC for one extension bay etc with the satisfaction of AEGCL				

3. ITEM BREAKUP

Schedule	Schedule A- " Supply Part "					
Item- 3	Supply of following items according to approved specification, drg & conducting inspection by Rly/AEGCL Authority before dispatch from factory of approved vender.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Danger plate for 132 KV as per standard specification.	Numbers	134.00	531.53	71225.02
2	2	Phase plate as per standard specification & direction of concerned authority.	Numbers	134.00	413.83	55453.22
3	3	Number plates as per standard specification direction of concerned Rly Engineer.	Numbers	68.00	531.53	36144.04
4	4	Anticlimbing device for each tower/monopole as per direction of AEGCL/Railway complete with fixing clamps, nut, bolt etc.	Numbers	68.00	12437.08	845721.44
5	5	Supply of bird guard for each tower as per approved drawing & designing of AEGCL/Rly	Numbers	20.00	2938.91	58778.20
					Total	1067321.92
Item- 6	Supply of following tension/suspension & hardware fittings as per approved drawing & design of AEGCL & conducting test at approved vender's manufacturing premises/Govt recognised Laboratory by Rly/AEGCL Authority.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Double tension hardware fittings for ACSR panther as per IS -2486 part-I (1974) or latest amendment (compression type) as per AEGCL approved design & type.	Set	22.00	8729.99	192059.78
2	2	Single tension hardware fittings suitable for ACSR panther as per IS -2486 part-I (1974) or latest amendment (compression type) as per AEGCL approved design & type.	Set	112.00	4191.54	469452.48
3	3	Double suspension fittings AG type for ACSR panther as per IS -2486 part-I (1974) or latest amendment as per AEGCL approved Spec.	Set	5.00	8124.12	40620.60
4	4	Single suspension fittings AG type as per IS & AEGCL approved spec.	Set	14.00	3942.50	55195.00
5	5	Single suspension pilot fittings AG type as per IS & AEGCL approved spec.	Set	2.00	2824.92	5649.84
					Total	762977.70

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Item- 17	Supply of SDH equipment (STM-4 MADM, upto 3 MSP protected direction) as per approved spec of AEGCL/Rly.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of Base equipment (common cards, cross connect/control cards, optical base cards, power supply cards, power cabling other hardware & accessories including sub-racks, patch cords DDF, etc. fully equipped including cabinet etc.	Numbers	2.00	1354422.76	2708845.52
2	2	Supply of Optical interface S4.1	Numbers	4.00	10979.70	43918.80
3	3	Supply of E1 Interface card (Minimum 63 nos.)	Numbers	4.00	113660.90	454643.60
4	4	Supply of internet interface 10/100 Mbps with layer 2 switching (minimum 16 nos.)	Numbers	4.00	126892.19	507568.76
					Total	3714976.68
Item- 18	Supply of Drop & Insert Multiplexer as per AEGCL/Rly approved spec & design.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of Drop & Insert Multiplexer as per AEGCL/Rly approved spec & design.	Numbers	2.00	451033.17	902066.34
2	2	Supply of 2 wire (sub/sub) voice channel card	Numbers	2.00	65964.36	131928.72
3	3	Supply of 2 wire (sub/exch) voice channel card	Numbers	2.00	79765.58	159531.16
4	4	Supply of 4 wire E&M voice channel card	Numbers	2.00	70649.02	141298.04
5	5	Supply of Asynchronous sub-channel data card	Numbers	2.00	67791.89	135583.78
6	6	Supply of Synchronous data card N X 64 kbps	Numbers	2.00	69548.79	139097.58
7	7	Supply of Equipment cabinets for SDH equipment, primary multiplexer, drop/insert and DACS.	Numbers	2.00	84332.54	168665.08
8	8	Supply of Software/Hardware (remote)	Numbers	1.00	690219.24	690219.24
9	9	Supply of Software/Hardware (craft terminal)	Numbers	1.00	134353.54	134353.54
10	10	8 commands DTPC	Numbers	2.00	235503.22	471006.44
11	11	Supply of Ethernet Tester with dual port 10/100 Mbps Ethernet option layer 1 & layer 2 functionality	Numbers	1.00	1233911.25	1233911.25
12	12	Supply of Firewall with deep inspection of IEC 104	Numbers	2.00	1708492.50	3416985.00
13	13	Supply of OTDR as per AEGCL/Rly approved spec & design.	Numbers	1.00	584091.74	584091.74
14	14	Supply of laser source as per AEGCL/Rly approved spec & design.	Numbers	1.00	66936.68	66936.68
15	15	Supply of optical power metre as per AEGCL/Rly approved spec & design.	Numbers	1.00	62540.00	62540.00
					Total	8438214.59
Item- 30	Supply of Isolators (3 phase), with core insulator, marshalling boxes, terminal connectors (Motor Operated) with complete moving contact of HDEC copper only. No part of moving contact will be of Aluminium as per approved drawing of Railway/AEGCL					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1250 A, 40 kA with one earth switch (Double break Isolator)	Numbers	2.00	451488.53	902977.06
2	2	1250 A, 40 kA without earth switch (Double break Isolator)	Numbers	2.00	339469.83	678939.66
3	3	1250 A, 40 kA without earth switch (Double break Isolator) (Tandem arrangement)	Numbers	1.00	345354.97	345354.97
					Total	1927271.69
Item- 41	Supply for laying of UG LT Cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded aluminium conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/FINOLEX or Similar.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	4 C X 70 sqmm	Metre	480.00	912.70	438096.00

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2	2	4 C X 16 sqmm	Metre	320.00	298.38	95481.60
3	3	2 C X 6 sqmm	Metre	500.00	161.48	80740.00
					Total	614317.60
Item- 42	Supply for laying of LT copper control cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded copper conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/RR cable/CABCON/FINOLEX.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	2 C X 2.5 sqmm	Metre	500.00	186.05	93025.00
2	2	3 C X 2.5 sqmm	Metre	520.00	229.93	119563.60
3	3	7 C X 2.5 sqmm	Metre	500.00	462.50	231250.00
4	4	10 C X 2.5 sqmm	Metre	550.00	606.42	333531.00
5	5	19 C X 2.5 sqmm	Metre	420.00	1089.98	457791.60
					Total	1235161.20
Item- 43	Supply for construction of materials for earthing mat with all materials and accessories as well as spikes as per requirement of design as per IEEE standards for complete earthing of grid sub-station with the following. Complete with earth excavation, fitting, dressing etc. as per AEGCL/Rly approved spec & design. (The quantity is tentative and final quantity will depend on actual design):-					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	40 mm MS rod for main earth mat	MT	3.00	122952.17	368856.51
2	2	75X12 mm GI flats for riser for equipments, columus and structures	MT	2.00	128657.76	257315.52
3	3	Treated Eathing pits with supply of all materials including a base plate	Numbers	10.00	21853.48	218534.80
4	4	Supply of Untreated Earth pit	Numbers	10.00	9396.58	93965.80
					Total	938672.63
Schedule	Schedule B-"B" (Erection, Testing & Commissioning Part)					
Item- 11	Erection ,setting ,Fixing of stub setting angles complete galvanised with cleats fixture each sets consisting of 4 nos. for each tower with using suitable template and as per approved drawing of Rly/AEGCL. (Template will be arranged by contractor by his own arrangement including loading, unloading carrying etc.)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	DA type tower up to + 6 MBE/+9 MBE	Numbers	9.00	5165.42	46488.78
2	2	DB type tower up to + 6 MBE/+9 MBE	Numbers	9.00	9286.84	83581.56
3	3	DC type tower up to + 6 MBE/+9 MBE	Numbers	5.00	14278.71	71393.55
4	4	DD type tower up to + 6 MBE/+9 MBE	Numbers	36.00	9251.95	333070.20
5	5	DD type tower up to +12/+15MBE	Numbers	2.00	10830.03	21660.06
6	6	220 KV/DD Spl type tower upto +18/25 MBE	Numbers	2.00	22931.28	45862.56
					Total	602056.71
Item- 12	Erection of galvanised lattice steel (HT & MS) for tower superstructure complete in all respect as per IS-2062 including application of suitable paints up to bottom cross arm level. Design of tower with details of members drawing should be got approved from authority concern of Railway/AEGCL before fabrication and starting foundation work at site for all the location. all tower members to be tightened properly with nut & bolt and tack welding of all nuts & bolt up to the height of cross arm.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	DA type tower.	Numbers	9.00	99157.46	892417.14
2	2	DB type tower	Numbers	9.00	107348.42	966135.78
3	3	DC type tower	Numbers	5.00	121171.78	605858.90
4	4	DD type tower	Numbers	37.00	150918.13	5583970.81
5	5	220 KV DD Spl type tower	Numbers	2.00	285479.38	570958.76
6	6	DD type dead end tower.	Numbers	1.00	158846.97	158846.97
					Total	8778188.36

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Item- 13	Erection of galvanised lattice steel (HT & MS) for tower superstructure complete in all respect as per IS-2062 including application of suitable paints up to bottom cross arm level. Design of tower with details of members drawing should be got approved from authority concern of Railway/AEGCL before fabrication and starting foundation work at site for all the location. all tower members to be tightened properly with nut & bolt and tack welding of all nuts & bolt up to the height of cross arm.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	3 mtr body extension for DA type tower	Numbers	2.00	16373.86	32747.72
2	2	6/9 mtr body extension for DA type tower	Numbers	1.00	31260.01	31260.01
3	3	3 mtr body extension for DB type tower	Numbers	2.00	24644.44	49288.88
4	4	6 mtr body extension for DB type tower	Numbers	1.00	35265.13	35265.13
5	5	3 mtr body extension for DC type tower	Numbers	1.00	27979.51	27979.51
6	6	6 mtr body extension for DC type tower	Numbers	1.00	51986.10	51986.10
7	7	3 mtr body extension for DD type tower/DE +3/dwarf tower	Numbers	2.00	40076.29	80152.58
8	8	6 mtr body extension for DD type tower	Numbers	6.00	59656.40	357938.40
9	9	9 mtr body/+12 mtr extension for DD type tower	Numbers	4.00	97542.71	390170.84
10	10	18 mtr body extension 220 KV DD Spl Type tower/+25 MBE	Numbers	2.00	371416.45	742832.90
					Total	1799622.07
Item- 36	Installation, testing & comissioning of Isolators (3 phase), with core insulator, marshalling boxes, terminal connectors (Motor Operated) with complete moving contact of HDEC copper only. No part of moving contact will be of Alumunium as per approved drawing of Railway/AEGCL					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1250 A, 40 kA with one earth switch (Double break Isolator)	Numbers	2.00	18748.31	37496.62
2	2	1250 A, 40 kA without earth switch (Double break Isolator)	Numbers	2.00	18109.44	36218.88
3	3	1250 A, 40 kA without earth switch (Double break Isolator) (Tandem arrangement)	Numbers	1.00	18109.44	18109.44
					Total	91824.94
Item- 47	Laying of UG LT Cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded aluminium conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment complete with associated accessories like clamps, glands, lugs, feruls, tagging etc. (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/FINOLEX.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	4 C X 70 sqmm	Metre	480.00	35.10	16848.00
2	2	4 C X 16 sqmm	Metre	320.00	22.82	7302.40
3	3	2 C X 6 sqmm	Metre	500.00	11.41	5705.00
					Total	29855.40
Item- 48	Laying of LT copper control cable 1.1 KV grade, armoured, PVC sheathed, XLPE insulated, stranded copper conductor etc conforms to IS 7098 (Pt.I), 1988 with latest amendment complete with associated accessories like clamps, glands, lugs, feruls, tagging etc. (Cables to be inspected by the Rly Engineer/AEGCL at factory premises before delivery). Make : Havells/Polycab/RR cable/CABCON/FINOLEX.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	2 C X 2.5 sqmm	Metre	500.00	19.31	9655.00
2	2	3 C X 2.5 sqmm	Metre	520.00	21.94	11408.80
3	3	7 C X 2.5 sqmm	Metre	500.00	28.08	14040.00
4	4	10 C X 2.5 sqmm	Metre	550.00	30.72	16896.00
5	5	19 C X 2.5 sqmm	Metre	420.00	35.10	14742.00
					Total	66741.80
Item- 49	Construction of materials for earthing mat as per approved drawing of Rly/AEGCL with all materials and accessories as well as spikes as per requirement of design as per IEEE standards for complete earthing of grid sub-station with the following. Complete with earth excavation, fitting, dressing etc. (The quantity is tentative and final quantity will depend on actual design):-					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	40 mm MS rod for main earth mat.	MT	3.00	6872.05	20616.15
2	2	75X12 mm GI flats for risers for equipments, columns and structures	MT	2.00	7865.17	15730.34
3	3	Treated Earthing pits with supply of all materials including vbase plate	Numbers	10.00	16246.15	162461.50
4	4	Untreated Earth pit	Numbers	10.00	6169.61	61696.10
					Total	260504.09

4. ELIGIBILITY CONDITIONS

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. For JV (if applicable): The JV shall satisfy the requirement of Financial Eligibility mentioned at para above. The financial capacity of the lead member of JV shall not be less than 51% of the financial eligibility criteria mentioned at para above. The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's financial capacity to satisfy this requirement. Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration.	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Technical Eligibility Criteria: (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: Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender, Or Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender, Or One similar work costing not less than the amount equal to 60% of advertised value of the tender. 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. For JV firms (if applicable): The technical eligibility for the work as per para 1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'. Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 1 above, shall have technical capacity of minimum 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender.	No	No	Allowed (Mandatory)
1.1	Similar nature of work:-Supply, erection, testing & commissioning of overhead transmission line work: 66kV & above tower work.	No	No	Allowed (Mandatory)

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.
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)

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

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

5. COMPLIANCE

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

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Whether cost of earnest money deposited.	No	No	Not Allowed
2	Whether cost of tender document deposited.	No	No	Not Allowed
3	Whether valid electrical contractor license and valid supervisor license submitted.	No	No	Not Allowed
4	Whether document related to technical eligibility submitted.	No	No	Not Allowed
5	Whether document related to financial eligibility submitted.	No	No	Not Allowed
6	Whether photocopy of Pan Card submitted.	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	Payment of Earnest money deposit (EMD) & Tender Document cost (TDC) in respect of e-tendering should be accepted through net banking or payment gateway only.	No	No	Allowed (Mandatory)
3	Due to implementation of GST by government of India with effect from 01-07-2017, All the Bidder / Tenderers are advice to ensure that they are GST compliant and their quoted tax structures/rates are as per GST law. The quoted rate should include all applicable taxes as per GST law and no claims will be entertained after the closing date of the tender.	No	No	Allowed (Mandatory)
4	In case the successful tenderer is not liable to be registered under CGST / IGST / UTGST / SGST act. The Railway shall deduct the applicable GST from his / Their Bills under Reverse Charge Mechanism (RCM) and deposit the same to the concerned tax authority.	No	No	Allowed (Mandatory)
5	Those tenderer/bidder who wish to get payment through LC are requested to follow the related rules mentioned in tender contract documents. For getting payment through letter of Credit (LC) and uploading duly filled up as per Annexure - O & Annexure P, attached with the tender documents.	No	No	Allowed (Optional)
6	Address of Firm: The tenderer should upload scanned copy in PDF format of the complete address of the Firm to which all correspondences shall be made by Railways.	No	No	Allowed (Mandatory)
7	Other Letter: The tenderer may upload scanned copy in PDF format of any other letter/ documents etc., the agency intends to submit.	No	No	Allowed (Optional)
8	GSTIN: The tenderer should upload scanned copy in pdf format of the GSTIN in favor of the company.	No	No	Allowed (Mandatory)
9	Before execution of the work, the bidder has to submit all drawings, sketches, electrical item's list etc. for necessary approval from competent authority.	No	No	Allowed (Mandatory)

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General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer are required to observe the website to find out if any correction slips issued subsequent to uploading of the tender. Railway reserve the right to make any addition/alteration to the tender uploaded and issue corrigendum to the same effect. In case the tenderer fail to take note of the above corrigendum, the addition and alteration entered/effectuated in the corrigendum shall be binding upon the tenderer and no claim whatsoever will not be entertained by Railway.	No	No	Not Allowed
2	No manual tenderers sent by post/fax/courier or in person shall be accepted.	No	No	Not Allowed
3	No post tender correspondence shall be entertained after closing of the tender even Suo moto from tenderer. Letters of the tenderers shall be treated as null void.	No	No	Not Allowed
4	Indian Railway Standard General Condition of Contract, 2022 corrected up to date of closing of tender and the attached documents are part of the tender document.	No	No	Not Allowed
5	For more details the instructions to the tenderer and all other details available in the documents attached with the tender be referred to.	No	No	Not Allowed
6	The work shall be executed in conformity with tender documents such as the Standard General Condition of Contract-2022, special conditions & specifications mentioned in the contract, Indian Electricity Rules and other relevant IR/IS specifications.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	No Technical and Financial credentials are required for tenders having advertised value up to Rs 50 lakh.	No	No	Not Allowed
2	Railway reserves the right to demand any particular brand/make of equipment or fittings out of the option mentioned in this Sch. on technical ground/Administrative reasons.	No	No	Not Allowed
3	All the materials should got approved by the Officer In charge at site before execution of work.	No	No	Not Allowed
4	Additional Performance Security in case of Abnormally Low Bids(ALBs) have to submit by the bidder/s as per GCC July,2022.(The Tenderers who has offered lower total cost as compared to tender value by more than 10%, shall be required to submit additional Performance Guarantee of value equal to half the percentage of tender value by which offer is lower than 10%.e.g. in a tender costing Rs. 100, if contract value is Rs. 80, additional Performance Guarantee shall be $[0.5 \times \{(100-80)-10\}]$ percentage of tender value.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Association of Railway Officers: The tenderer should upload scanned copy in PDF format of the details regarding the Association of Railway Officer(s) with the tenderer as per Annexure-D of the attached tender document.	No	No	Allowed (Mandatory)
1.1	The tendere shall submit a copy of valid electrical Contractor License (issued by state government or other government authority) and Valid Supervisory Certificate of Competency for Supervision of EHT work and workmen License for all the Electrical works mentioned in the schedule till the completion of the entire work. The contractor's supervisor or engineer in charge should always be present at site during execution of work.	Yes	Yes	Allowed (Mandatory)
1.1.1	All the materials make should generally be from reputed firm.	Yes	Yes	Allowed (Optional)

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Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/we visited the works site and I/We am/are aware of the site condition.	No	No	Not Allowed
2	I/We have read the various condition attached/referred to in this tender documents and agree to abide by the said condition.	No	No	Not Allowed
3	I/We also hereby agree to abide by the Indian Railways Standard General Condition of Contract 2022 with all correction slips up to date of closing of tender and to carry out the work according to the special conditions of contracts and Specification of materials & works as laid down by the Railways.	No	No	Not Allowed
4	Tenderers are compulsorily required to submit a notarized affidavit on a non-judicial stamp paper as per annexure-V of the tender document without that the offer will be considered as incomplete and will be rejected summarily.	No	No	Not Allowed
4.1	It shall be mandatorily incumbent upon the tenderer to identity, state and submit the supporting documents duly self attested by which they/he are/is qualifying the Qualifying Criteria mentioned in the tender document. It will not be obligatory on the part of the tender committee to scrutinize beyond the submitted documents of the tenderer as far as these qualifications for the tender is concerned.	No	No	Not Allowed
4.2	The Railways reserve the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verifications, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of Railway thereunder.	No	No	Not Allowed
4.3	In case of any wrong information submitted by the tenderer, the contract shall be terminated, earnest deposit (EMD), Performance Guarantee (PG) and security deposit (SD) of contract forfeited and agency barred for doing business on entire Railways for 5 (five) years.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	ACS1to10_compressed.pdf	ACS 1 to 10
2	ACS11_compressed.pdf	ACS 11
3	SPLTERMSANDCONDITIONTenderBookletTrline.pdf	special terms and conditions
4	TenderDocumentforDhaligaonGSStoRunikhataTSSTRLine1.pdf	Tender Document
5	GCCApril-2022withACS.pdf	GCC 2022 with Correction slips
6	Dhaligaon_GSStoRunikhata_TSS-PVchart.pdf	Dhaligaon GSS to Runikhata TSS PV chart

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: KISHORI MOHAN DAS

Designation : Dy.CEE/C/HQ/MLG