

**CORE-HQ-ELECTRICAL/CORE  
TENDER DOCUMENT**

Tender No: ELCORE-OHETSSGR-318-19-20

Closing Date/Time: 30/03/2020 15:00

CAO/RE acting for and on behalf of The President of India invites E-Tenders against Tender No **ELCORE-OHETSSGR-318-19-20** Closing Date/Time 30/03/2020 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.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

**1. NIT HEADER**

<b>Name of Work</b>	"Design, Supply, Erection, Testing & Commissioning of 25 kV, 50 Hz, Single Phase, AC, Electrification Works including High Rise OHE & TSS as Composite Electrical Work" in Adipur (Excl.) - New Bhuj (Incl.), Jhund (Excl.) - Patdi - Kharaghoda (Incl.) & Mehsana (Excl.) - Patan - Bhildi (Excl.) Sections Gr.318, 319 & 320 of Ahmedabad Division of Western Railway under RE Project Ahmedabad, Total 163.95 RKM/ 197.90 TKM.		
<b>Bidding type</b>	Two Stage Reverse Auction		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	30/03/2020 15:00	<b>Date Time Of Uploading Tender</b>	05/03/2020 11:11
<b>Pre-Bid Required</b>	No	<b>Pre-Bid Query Date Time</b>	Not Applicable
<b>Advertised Value</b>	695081149.79	<b>Tendering Section</b>	OHE
<b>Bidding Style</b>	Single Rate for Each Schedule Item	<b>Bidding Unit</b>	
<b>Earnest Money (Rs.)</b>	3625400.00	<b>Validity of Offer ( Days)</b>	60
<b>Tender Doc. Cost (Rs.)</b>	25000.00	<b>Period of Completion</b>	18 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	16/03/2020	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)
<b>Auto Elimination rules applicable</b>	Yes	<b>Minimum Decrement (%)</b>	.2
<b>Initial Cooling Off Period (HH:MM)</b>	4:00	<b>Subsequent Cooling Off Period (HH:MM)</b>	00:20

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 101-OHE</b>							630611986.73	
1	Please see Item Breakup for details.				19182494.34	92.37	36901364.36	Above/ Below/Par
	<b>Item Description:-</b> Section-1 (General)							
2	Please see Item Breakup for details.				45513145.32	154.50	115830954.84	Above/ Below/Par
	<b>Item Description:-</b> Section-2(a) (Concrete)							
3	Please see Item Breakup for details.				229184732.50	74.34	399560662.64	Above/ Below/Par
	<b>Item Description:-</b> Section-3(Ferrous)							
4	Please see Item Breakup for details.				24919028.36	82.52	45482210.56	Above/ Below/Par
	<b>Item Description:-</b> Section-4(a)(Other Non Ferrous)							
5	Please see Item Breakup for details.				19691049.61	66.76	32836794.33	Above/ Below/Par
	<b>Item Description:-</b> Secion-5(Insulators)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 102-TSS</b>							42918148.58	
1	Please see Item Breakup for details.				9444643.00	252.94	33333923.00	Above/ Below/Par
	<b>Item Description:-</b> Schedule-1 Section-8							

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2	Please see Item Breakup for details.	2003224.00	200.16	6012877.16	Above/ Below/Par
	<b>Item Description:-</b> Schedule-1 Section-9				
3	Please see Item Breakup for details.	1662252.00	114.85	3571348.42	Above/ Below/Par
	<b>Item Description:-</b> Schedule-1 Section-10				

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule 103-TSS NS Items</b>							21551014.48	
1	Please see Item Breakup for details.				8469525.52	AT Par	8469525.52	Above/ Below/Par
	<b>Item Description:-</b> Sch-1, Sec-11 (Part-A)							
2	Please see Item Breakup for details.				10769705.46	AT Par	10769705.46	Above/ Below/Par
	<b>Item Description:-</b> Sch-1, Sec-11 (Part-C)							
3	Please see Item Breakup for details.				2311783.50	AT Par	2311783.50	Above/ Below/Par
	<b>Item Description:-</b> Sch-1, Sec-11 (Part-D)							

**3. ITEM BREAKUP**

Schedule	Schedule 101-OHE					
Item- 1	Section-1 (General)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Preparation of designs and drawings for overhead equipment and verification of purchaser's pegging plan.				
1	01010102	Erection	Per Track KM	197.90	9344.00	1849177.60
		Preparation of designs and drawings for switching stations (FP/SP/SSP)				
2	01010202	Erection	Each	14.00	16051.00	224714.00
		Supply without insulator and erection of mounting arrangements for span wire.				
3	01010301	Materials	Each	30.00	3199.00	95970.00
4	01010302	Erection	Each	30.00	434.00	13020.00
		Marking/painting of temperature & 'Y'- Measurement of OHE mast at BWA locations				
5	01010402	Erection	Each	395.79	62.00	24538.98
		Supply without insulator and erection of material for termination of Single conductor of Over head equipment or terminating wire.				
6	01010501	Materials	Each	60.00	2411.00	144660.00
7	01010502	Erection	Each	60.00	408.00	24480.00
		Supply without Insulator and erection of material for termination of all aluminium 25KV Feeder / return conductor (Single SPIDER)				
8	01010601	Materials	Each	16.00	3043.00	48688.00
9	01010602	Erection	Each	16.00	408.00	6528.00
		Supply without insulator and erection of materials for termination of copper cross feeder with gantries.				
10	01010801	Materials	Set	16.00	2895.00	46320.00
11	01010802	Erection	Set	16.00	408.00	6528.00

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		Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area				
12	01010901	Materials	Each	5.00	2792.00	13960.00
13	01010902	Erection	Each	5.00	1317.00	6585.00
		Supply without Insulator and erection of cut-in (9Tonne) Insulator				
14	01011101	Materials	Each	185.00	688.00	127280.00
15	01011102	Erection	Each	185.00	283.00	52355.00
		Supply without Insulator and erection of a suspension (9 Tonne) Insulator				
16	01011201	Materials	Each	158.00	713.00	112654.00
17	01011202	Erection	Each	158.00	168.00	26544.00
		Supply without Insulator and erection of 25 kV Post Insulator				
18	01011301	Materials	Each	343.00	515.00	176645.00
19	01011302	Erection	Each	343.00	112.00	38416.00
		Extra for special embedment of earth electrode.				
20	01011602	Erection	Each	35.00	679.00	23765.00
		Supply & Erection of 25kV Vacuum type Interrupter				
21	01011801	Materials	Each	48.00	173491.00	8327568.00
22	01011802	Erection	Each	48.00	1913.00	91824.00
		Supply and Erection of 25kV Potential Transformers Type-I				
23	01011901	Materials	Each	18.00	44466.00	800388.00
24	01011902	Erection	Each	18.00	429.00	7722.00
		Supply and Erection of 42KV Lightning Arrestors (station class)				
25	01012001	Materials	Each	34.00	15119.00	514046.00
26	01012002	Erection	Each	34.00	278.00	9452.00
		Supply and Erection of Terminal Boards in control cubicles.				
27	01012201	Materials	Each	12.00	5061.00	60732.00
28	01012202	Erection	Each	12.00	204.00	2448.00
		Supply and Erection of an Iron clad 110 V.D.C Fuse Box.				
29	01012301	Materials	Each	12.00	1593.00	19116.00
30	01012302	Erection	Each	12.00	47.00	564.00
		Supply and erection of an Iron clad 230 V.A.C Fuse Box.				
31	01012401	Materials	Each	12.00	1762.00	21144.00
32	01012402	Erection	Each	12.00	47.00	564.00
		Supply and Erection of Lead Acid Batteries.				
33	01012501	Materials	Each	12.00	42715.00	512580.00
34	01012502	Erection	Each	12.00	3065.00	36780.00
		Supply and Erection of Battery chargers.				
35	01012601	Materials	Each	12.00	41587.00	499044.00
36	01012602	Erection	Each	12.00	418.00	5016.00
		Supply and Installation of cables for Control and indication circuit				
37	01012701	Materials	Metre	300.00	201.00	60300.00
38	01012702	Erection	Metre	300.00	7.00	2100.00
		Supply and Installation of cables for Heater supply				
39	01012801	Materials	Metre	300.00	95.00	28500.00
40	01012802	Erection	Metre	300.00	7.00	2100.00

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		Supply and Installation of cables for Catenary indication				
41	01012901	Materials	Metre	420.00	137.00	57540.00
42	01012902	Erection	Metre	420.00	7.00	2940.00
		Supply and Installation of cables for L.T. Power supply				
43	01013001	Materials	Metre	240.00	217.00	52080.00
44	01013002	Erection	Metre	240.00	10.00	2400.00
		Supply and Installation of cables for 110V D.C. supply				
45	01013101	Materials	Metre	300.00	137.00	41100.00
46	01013102	Erection	Metre	300.00	10.00	3000.00
		Supply, Erection, oil- filtration, testing and commissioning of L.T. supply transformers (10 kVA).				
47	01013201	Materials	Each	15.00	27426.00	411390.00
48	01013202	Erection	Each	15.00	4572.00	68580.00
		Supply, Erection, oil- filtration, testing and commissioning of L.T. supply transformers (5 kVA).				
49	01013301	Materials	Each	17.00	22971.00	390507.00
50	01013302	Erection	Each	17.00	4572.00	77724.00
		Supply, Erection, oil- filtration, testing and commissioning of L.T. supply transformers (25 kVA).				
51	01013401	Materials	Each	3.00	93611.00	280833.00
52	01013402	Erection	Each	3.00	4572.00	13716.00
		Supply without Insulator & erection of 25 kV D.O. fuse switch.				
53	01013601	Materials	Each	35.00	4934.00	172690.00
54	01013602	Erection	Each	35.00	239.00	8365.00
		Modification to erected equipment's:- Transfer of equipment from one mast or support to another.				
55	01013901	Materials	Each	225.00	804.00	180900.00
56	01013902	Erection	Each	225.00	1179.00	265275.00
		Modification to erected equipment's:- Provision of an additional bracket assembly/ assemblies on a mast or support.				
57	01014002	Erection	Each	30.00	1047.00	31410.00
		Modification to erected equipment's:- Dismantling of overhead equipment.				
58	01014202	Erection	Kilometre	15.00	6222.00	93330.00
		Modification to erected equipment's:- Dismantling of Feeder/ Return Conductor				
59	01014302	Erection	Kilometre	9.00	2697.00	24273.00
		Modification to erected equipment's:- Splicing & extension of an anchored overhead equipment.				
60	01014402	Erection	Each	9.00	1156.00	10404.00
		Modification to erected equipment's:- Dismantling of a Section Insulator Assembly				
61	01014501	Materials	Each	18.00	670.00	12060.00
62	01014502	Erection	Each	18.00	1156.00	20808.00
		Modification to erected equipment's:- Slewing and putting back of OHE in original shape				
63	01014602	Erection	Each Span	180.00	937.00	168660.00
		Modification to erected equipment's:- Dismantling of an Isolator				

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64	01014702	Erection	Each	30.00	627.00	18810.00
		Modification to erected equipment's:- Dismantling of a Post/ Pedestal Insulator.				
65	01014802	Erection	Each	120.00	204.00	24480.00
		Manning of Switching stations (SP/SSP)				
66	01014902	Erection	Each/month	96.00	19148.00	1838208.00
		Manning of Traction Sub-stations				
67	01015002	Erection	Each/month	16.00	30878.00	494048.00
		Supply and Erection of materials for internal and external lighting of Switching Station Building (SP/SSP).				
68	01015102	Erection	Each	12.00	16416.00	196992.00
		Unloading of all type of Steel Structures.				
69	01015202	Erection	MT	45.74	61.00	2790.14
		Loading of all type of Steel Structures.				
70	01015302	Erection	MT	45.74	113.00	5168.62
		Unloading of all type of Copper & Aluminium conductors.				
71	01015402	Erection	MT	368.00	55.00	20240.00
		Loading of all type of Copper & Aluminium conductors.				
72	01015502	Erection	MT	368.00	55.00	20240.00
		Supply & Erection of Earthing station at switching Posts (SSP & SP) with conventional earthing system				
73	01015601	Materials	Each	12.00	8449.00	101388.00
74	01015602	Erection	Each	12.00	444.00	5328.00
					<b>Total</b>	<b>19182494.34</b>
<b>Item- 2</b>	Section-2(a) (Concrete)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Concrete for foundation and plinth (For concrete mix of M 10 and M 15 Grade in Foundation) (i) In hard soil:				
1	02010101	Materials	cum	417.00	2056.00	857352.00
2	02010102	Erection	cum	417.00	749.00	312333.00
		In other than hard soil and rock (for concrete mix of M 10 and M 15 Grade in Foundation)				
3	02010501	Materials	cum	13106.52	2140.00	28047952.80
4	02010502	Erection	cum	13106.52	566.00	7418290.32
		Supply of materials and costruction of Super Structure of SP/SSP building (Control cubicles)				
5	02011002	Erection	Each	12.00	81393.00	976716.00
		Cement concrete for foundation with stone ballast 40mm nominal size				
6	02011102	Erection	cum	156.00	1360.00	212160.00
		RCC work for foundation and plinth in ratio 1:1½:3.				
7	02011202	Erection	cum	132.00	2211.00	291852.00
		Brick work in foundation plinth, retaining walls and drainage.				
8	02011302	Erection	cum	4950.00	1203.00	5954850.00
		Construction of retaining wall with random rubble masonry in cement & sand.				
9	02011402	Erection	cum	30.00	931.00	27930.00
		Earth work in excavation and filling including compaction (i) In normal soil				

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10	02011502	Erection	cum	2700.00	26.00	70200.00
		Earth work, excavation and filling including compaction(ii) In hard soil				
11	02011602	Erection	cum	2700.00	33.00	89100.00
		Earth work, excavation for foundation (i) In normal soil				
12	02011702	Erection	cum	720.00	25.00	18000.00
		Earth work, excavation for foundation (ii) In hard soil				
13	02011802	Erection	cum	720.00	32.00	23040.00
		Excavation of pile of 100 mm to 200 mm dia upto 3.5M deep.				
14	02011902	Erection	Metre	3.00	43.00	129.00
		Plastering of retaining wall with 1:4 cement & sand mortar.				
15	02012002	Erection	Sqm	1200.00	36.00	43200.00
		Reinforced concrete for foundation and plinth (grade M-15)				
16	02012101	Materials	cum	60.00	2296.00	137760.00
17	02012102	Erection	cum	60.00	566.00	33960.00
		Reinforced concrete for foundation and plinth (grade M-20)				
18	02012201	Materials	cum	74.00	2569.00	190106.00
19	02012202	Erection	cum	74.00	566.00	41884.00
		Concrete for cylindrical type side bearing foundation (M15 & M20) (SBC-11,000 kgf/sqm with the help of mechanised means (Necessary machinery and plants for digging of pit shall be arranged by the contractor at his own cost)				
20	02012501	Materials	cum	267.48	2476.00	662280.48
21	02012502	Erection	cum	267.48	389.00	104049.72
					<b>Total</b>	<b>45513145.32</b>
<b>Item- 3</b>	Section-3(Ferrous)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Supply & Erection of traction masts, main masts of switching stations, Booster transformer station, fabricated from Rolled mild steel joist (RSJ) of size 203mm x 152 mm x 52.0 Kg/m and galvanised in lengths 9.5 m or 8.5 m long.				
1	03010201	Materials	MT	46.00	42491.00	1954586.00
2	03010202	Erection	MT	46.00	1037.00	47702.00
		Supply and erection of fabricated and galvanised structures (O,N & R type portals) with all necessary components other than masts.				
3	03010301	Materials	MT	630.00	53854.00	33928020.00
4	03010302	Erection	MT	630.00	3546.00	2233980.00
		Supply and erection of Structure steel (traction masts) fabricated and galvanised of all Type : B-Series Mast.				
5	03010401	Materials	MT	1892.00	45423.00	85940316.00
6	03010402	Erection	MT	1892.00	1037.00	1962004.00
		Supply & Erection of special fabricated and galvanised steel structures other than Portals & traction- Masts not covered under items 3(b)(i) & 3(b)(ii).				
7	03010501	Materials	MT	336.00	47703.00	16028208.00
8	03010502	Erection	MT	336.00	3546.00	1191456.00
		Supply only of fabricated steel other than masts				

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9	03010601	Materials	MT	248.00	66257.00	16431736.00
		Supply and erection of a Guy Rod Assembly				
10	03010701	Materials	Each	792.00	4086.00	3236112.00
11	03010702	Erection	Each	792.00	473.00	374616.00
		Supply and erection of Anchoring Arrangement of traction mast with Galvanised steel stranded wire				
12	03010801	Materials	Each	15.00	6472.00	97080.00
13	03010802	Erection	Each	15.00	473.00	7095.00
		Supply and erection of 25KV Caution Boards/Plates.				
14	03010901	Materials	Each	543.00	131.00	71133.00
15	03010902	Erection	Each	543.00	42.00	22806.00
		Supply without insulator and erection of Single bracket assembly.				
16	03011001	Materials	Each	5224.00	5734.00	29954416.00
17	03011002	Erection	Each	5224.00	429.00	2241096.00
		Extra on 4 (a)(i) for supporting two OHEs.				
18	03011101	Materials	Each	120.00	1268.00	152160.00
19	03011102	Erection	Each	120.00	129.00	15480.00
		Extra on item 4(a)(iii) for supporting two tramway type OHE (Regulated)				
20	03011301	Materials	Each	24.00	1424.00	34176.00
21	03011302	Erection	Each	24.00	129.00	3096.00
		Supply without Insulator and erection of a pull off arrangement for one OHE				
22	03011501	Materials	Each	14.00	4848.00	67872.00
23	03011502	Erection	Each	14.00	267.00	3738.00
		Extra for each additional equipment pulled.				
24	03011601	Materials	Each	12.00	2664.00	31968.00
25	03011602	Erection	Each	12.00	267.00	3204.00
		Supply without Insulator and erection of a pull off arrangement for regulated tramway type OHE.				
26	03011701	Materials	Each	6.00	2744.00	16464.00
27	03011702	Erection	Each	6.00	212.00	1272.00
		Supply and erection of Regulating Equipment (3-Pulley type) with counter weight assembly for conventional/ composite OHE.				
28	03012001	Materials	Each	396.00	32186.00	12745656.00
29	03012002	Erection	Each	396.00	1764.00	698544.00
		Supply without Insulator and erection of materials for termination of Double conductor.				
30	03012401	Materials	Each	424.00	4185.00	1774440.00
31	03012402	Erection	Each	424.00	469.00	198856.00
		Supply without Insulator and erection of anticreep with galvanized steel wire.				
32	03012701	Materials	Each	188.00	10740.00	2019120.00
33	03012702	Erection	Each	188.00	1317.00	247596.00
		Extra on item 13(a), (b) or (c) for an inter-locking device				
34	03013001	Materials	Each	96.00	916.00	87936.00
35	03013002	Erection	Each	96.00	108.00	10368.00
		Supply and erection of a structure bond.				
36	03013201	Materials	Each	5344.00	528.00	2821632.00
37	03013202	Erection	Each	5344.00	131.00	700064.00
		Supply and erection of a Galvanised steel stranded wire structure bond				

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38	03013301	Materials	Each	48.00	1511.00	72528.00
39	03013302	Erection	Each	48.00	131.00	6288.00
		Supply and erection of a longitudinal bond				
40	03013401	Materials	Each	2375.00	298.00	707750.00
41	03013402	Erection	Each	2375.00	117.00	277875.00
		Supply & erection of a transverse and special bond.				
42	03013501	Materials	Each	2339.00	679.00	1588181.00
43	03013502	Erection	Each	2339.00	140.00	327460.00
		Supply & erection of a single earth electrode.				
44	03013601	Materials	Each	176.00	1191.00	209616.00
45	03013602	Erection	Each	176.00	498.00	87648.00
		Supply and erection of earth bus				
46	03013701	Materials	Metre	3640.00	126.00	458640.00
47	03013702	Erection	Metre	3640.00	35.00	127400.00
		Supply and erection of 8 SWG G.I. wire for earthing				
48	03013801	Materials	Metre	192.00	11.00	2112.00
49	03013802	Erection	Metre	192.00	9.00	1728.00
		Supply and erection of fencing panels at switching stations.				
50	03013901	Materials	Metre	480.00	2298.00	1103040.00
51	03013902	Erection	Metre	480.00	39.00	18720.00
		Supply and erection of fencing uprights				
52	03014001	Materials	MT	13.00	63551.00	826163.00
53	03014002	Erection	MT	13.00	1869.00	24297.00
		Supply and erection of anticlimbing device for Switching stations				
54	03014101	Materials	Metre	480.00	153.00	73440.00
55	03014102	Erection	Metre	480.00	4.00	1920.00
		Supply and erection of anticlimbing device for L.T. Supply Transformer Stations.				
56	03014301	Materials	Each	33.00	635.00	20955.00
57	03014302	Erection	Each	33.00	148.00	4884.00
		Supply and erection of anti monkey menace.				
58	03014401	Materials	Each	225.00	2534.00	570150.00
59	03014402	Erection	Each	225.00	148.00	33300.00
		Supply of reinforcement for RCC including cutting, straightening, bending, binding, erecting and placing and keeping in position including all lead and lift and including cost of binding wire				
60	03014501	Materials	MT	1.50	42171.00	63256.50
		Design, Supply, Fabrication, Painting and Erection of Height Gauge at Level Crossings (for clear span up to 7.3 m and/or above 7.3 m upto 12.2 m)				
61	03014601	Material	MT	90.00	43043.00	3873870.00
62	03014602	Erection	MT	90.00	5319.00	478710.00
		Supply and erection of Danger Plate on a Height Gauge Structure				
63	03014701	Material	Each	90.00	673.00	60570.00
64	03014702	Erection	Each	90.00	42.00	3780.00
		Supply and Erection of Protective screens at/on ROB/FOBs				
65	03014802	Erection	Set	54.00	13789.00	744606.00



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		Supply and erection of special type portal structures including uprights, booms and all components for span more than 36 meter				
66	03014901	Material	MT	1.00	55912.00	55912.00
67	03014902	Erection	MT	1.00	3546.00	3546.00
		Supply of 36 mm dia MS bolts, Nuts, Lock Nuts and washers				
68	03015001	Materials	Each	1.00	383.00	383.00
					<b>Total</b>	<b>229184732.50</b>
<b>Item- 4</b>	Section-4(a)(Other Non Ferrous)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Supply and erection of span wire.				
1	04010101	Materials	Metre	5400.00	498.00	2689200.00
2	04010102	Erection	Metre	5400.00	23.00	124200.00
		Supply of without insulator and erection of Suspension/ registration of contact wire only.				
3	04010201	Materials	Each	24.00	1196.00	28704.00
4	04010202	Erection	Each	24.00	183.00	4392.00
		Supply and erection of Over Head equipment only				
5	04010301	Materials	Kilometre	238.00	46757.00	11128166.00
6	04010302	Erection	Kilometre	238.00	13521.00	3217998.00
		Supply and erection of earth wire.				
7	04010701	Materials	Kilometre	3.00	43213.00	129639.00
8	04010702	Erection	Kilometre	3.00	1208.00	3624.00
		Supply and Manual Erection of all aluminium 25KV Feeder/ Return conductor (Single Spider)				
9	04010801	Materials	Kilometre	6.00	87846.00	527076.00
10	04010802	Erection	Kilometre	6.00	2476.00	14856.00
		Supply and Erection of copper cross feeder wires (37/2.25 mm HDBC) across the track at SP/SSP/FP/BT locations				
11	04010901	Materials	Kilometre	0.34	577320.00	196288.80
12	04010902	Erection	Kilometre	0.34	1584.00	538.56
		Extra on item 6(az) for supply and erection of additional fittings at a turn-out, diamond crossing or overlap				
13	04011001	Materials	Each	337.00	3096.00	1043352.00
14	04011002	Erection	Each	337.00	541.00	182317.00
		Supply without Insulator & erection of a section insulator assembly				
15	04011301	Materials	Each	31.00	16405.00	508555.00
16	04011302	Erection	Each	31.00	1406.00	43586.00
		Supply without Insulator & erection of a section insulator assembly suitable for tramway type OHE (Regulated)				
17	04011501	Materials	Each	4.00	16295.00	65180.00
18	04011502	Erection	Each	4.00	1249.00	4996.00
		Supply & Erection of a Ceramic/beaded Glass Fibre type (PTFE) Short Neutral section assembly				
19	04011601	Materials	Each	6.00	263409.00	1580454.00
20	04011602	Erection	Each	6.00	2174.00	13044.00
		Supply without Insulator and erection of a 25 KV single pole isolator without earth contact assembly.				
21	04011701	Materials	Each	44.00	18104.00	796576.00
22	04011702	Erection	Each	44.00	1302.00	57288.00

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		Supply without Insulators & erection of 25kV Double Pole Isolator.				
23	04011901	Materials	Each	12.00	29523.00	354276.00
24	04011902	Erection	Each	12.00	1438.00	17256.00
		Extra for supply & erection of an earth contact assembly in an Isolator.				
25	04012001	Materials	Each	4.00	6025.00	24100.00
26	04012002	Erection	Each	4.00	150.00	600.00
		Supply & erection of large copper jumpers				
27	04012101	Materials	Each	152.00	2508.00	381216.00
28	04012102	Erection	Each	152.00	236.00	35872.00
		Supply & erection of small copper jumpers				
29	04012201	Materials	Each	1501.00	294.00	441294.00
30	04012202	Erection	Each	1501.00	236.00	354236.00
		Supply & erection of copper jumpers				
31	04012301	Materials	Each	19.00	92.00	1748.00
32	04012302	Erection	Each	19.00	236.00	4484.00
		Supply & erection of a copper jumper (5mm dia droper wire).				
33	04012401	Materials	Each	35.00	804.00	28140.00
34	04012402	Erection	Each	35.00	236.00	8260.00
		Supply and erection of an aluminum jumper.				
35	04012501	Materials	Each	16.00	1286.00	20576.00
36	04012502	Erection	Each	16.00	109.00	1744.00
		Supply and erection of insulated catenary cable in the span under over-line structures.				
37	04012601	Materials	Each	60.00	2621.00	157260.00
38	04012602	Erection	Each	60.00	217.00	13020.00
		Supply of materials and erection of Large copper jumper 160 Sq. mm between Aluminium bus and cross feeders				
39	04012701	Materials	Each	28.00	3154.00	88312.00
40	04012702	Erection	Each	28.00	236.00	6608.00
		Supply of materials and erection of Large copper jumper 160 Sq. mm between cross feeder and OHE				
41	04012801	Materials	Each	28.00	4801.00	134428.00
42	04012802	Erection	Each	28.00	236.00	6608.00
		Supply and erection of copper strips for equipment earthing.				
43	04012901	Materials	Metre	370.00	271.00	100270.00
44	04012902	Erection	Metre	370.00	32.00	11840.00
		Supply & erection of : Aluminum bus-bars 36mm x 28mm.				
45	04013001	Materials	Metre	435.00	195.00	84825.00
46	04013002	Erection	Metre	435.00	31.00	13485.00
		Supply & erection of Solid copper bus-bars 18mm.:				
47	04013101	Materials	Metre	30.00	879.00	26370.00
48	04013102	Erection	Metre	30.00	44.00	1320.00
		Supply and erection of Aluminum bus-bar connectors:- Bus terminal (6480)				
49	04013201	Materials	Each	72.00	1341.00	96552.00
50	04013202	Erection	Each	72.00	19.00	1368.00
		Supply and erection of Aluminum bus-bar connectors:- Bus splice (6490)				

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51	04013301	Materials	Each	10.00	1482.00	14820.00
52	04013302	Erection	Each	10.00	19.00	190.00
		Supply and erection of Aluminum bus-bar connectors:- Bus tee connector (6500)				
53	04013401	Materials	Each	24.00	1495.00	35880.00
54	04013402	Erection	Each	24.00	17.00	408.00
		Supply and erection of Aluminum bus-bar connectors:- Terminal connector 36/20 (6530)				
55	04013501	Materials	Each	24.00	1349.00	32376.00
56	04013502	Erection	Each	24.00	17.00	408.00
		Supply and erection of Aluminum bus-bar connectors:- Tap connector (6520)				
57	04013601	Materials	Each	24.00	1349.00	32376.00
58	04013602	Erection	Each	24.00	19.00	456.00
		Supply and erection of Aluminum bus-bar connectors:- Terminal connector Bolted Type (6830-1)				
59	04013801	Materials	Each	24.00	1067.00	25608.00
60	04013802	Erection	Each	24.00	17.00	408.00
					<b>Total</b>	<b>24919028.36</b>
<b>Item- 5</b>	Secion-5(Insulators)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Supply of Insulators for item 4(a)(i) & 4(a)(iii)-Stay Arm Porcelain (CD-1050 mm)				
1	06010101	Materials	Each	4564.00	1554.72	7095742.08
		Supply of Insulators for item 4(a)(i) & 4(a)(iii)- Stay Arm Composite (CD-1050 mm)				
2	06010201	Materials	Each	660.00	1498.75	989175.00
		Supply of Insulators for item 4(a)(i) & 4(a)(iii)- Bracket Porcelain (CD-1050 mm)				
3	06010401	Materials	Each	4564.00	1338.07	6106951.48
		Supply of Insulators for item 4(a)(i) & 4(a)(iii)- Bracket Composite (CD-1050 mm)				
4	06010501	Materials	Each	660.00	890.29	587591.40
		Supply of 9-Tonne Insulators for items 4(b)(i) & 4(b)(iii)- Porcelain (CD-1050 mm)				
5	06010701	Materials	Each	14.00	1962.33	27472.62
		Supply of 9-Tonne Insulators for items 4(b)(i) & 4(b)(iii)- Composite (CD-1050 mm)				
6	06010801	Materials	Each	6.00	1240.61	7443.66
		Supply of 9-Tonne insulators for item 8(b)(i), (ii), (iii), (vi), (vii), (viii) & (ix)-Porcelain (CD-1050 mm)				
7	06011301	Materials	Each	452.00	1962.33	886973.16
		Supply of 9-Tonne insulators for item 8(b)(i), (ii), (iii), (vi), (vii), (viii) & (ix)-Composite (CD-1050 mm)				
8	06011401	Materials	Each	66.00	1240.61	81880.26
		Supply of 9-Tonne insulators for item 9(a), (b), (c), (d) & (e)- Porcelain (CD-1050 mm)				
9	06011601	Materials	Set	151.00	3924.66	592623.66
		Supply of 9-Tonne insulators for item 9(a), (b), (c), (d) & (e)- Composite (CD-1050 mm)				
10	06011701	Materials	Set	37.00	2481.22	91805.14
		Supply of 9-Tonne Insulator for item 11(a)(i) & 11(a)(ii)- Porcelain (CD-1050 mm)				
11	06011901	Materials	Each	301.00	1962.33	590661.33

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		Supply of 9-Tonne Insulator for item 11(a)(i) & 11(a)(ii) - Composite (CD-1050 mm)				
12	06012001	Materials	Each	42.00	1240.61	52105.62
		Supply of 25 kV Post Insulator for Item 11 (b)				
13	06012201	Materials	Each	343.00	3947.24	1353903.32
		Supply of 9 Tonne and Sectioning Insulators for item No.12(a)- Porcelain 9-Tonne (CD-1050 mm) & Sectioning Insulator				
14	06012501	Materials	Set	28.00	6614.43	185204.04
		Supply of 9 Tonne and Sectioning Insulators for item No.12(a)- Composite 9-Tonne (CD-1050 mm) & Sectioning Insulator				
15	06012601	Materials	Set	4.00	5892.71	23570.84
		Supply of Sectioning Insulators for 12(c) and 12(cz)				
16	06013101	Materials	Each	9.00	4652.00	41868.00
		Supply of Post & Operating rod insulators for item 13(a)				
17	06013201	Materials	Set	44.00	10291.00	452804.00
		Supply of Post & Operating rod insulators for item 13(c)				
18	06013401	Materials	Set	12.00	20582.00	246984.00
		Supply of Post insulators for item 28				
19	06013501	Materials	Set	35.00	7894.00	276290.00
					<b>Total</b>	<b>19691049.61</b>
<b>Schedule</b>	Schedule 102-TSS					
<b>Item- 1</b>	Schedule-1 Section-8					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Design and drawings for traction sub-stations				
1	07010102	Erection	Each	2.00	19782.00	39564.00
		Concrete for foundation & trench in hard soil				
2	07010301	Supply	cum	30.00	1002.00	30060.00
3	07010302	Erection	cum	30.00	333.00	9990.00
		Concrete for foundation & trench in rock.				
4	07010401	Supply	cum	10.00	1034.00	10340.00
5	07010402	Erection	cum	10.00	443.00	4430.00
		Concrete for foundation & trench other than hard soil & rock.				
6	07010501	Supply	cum	1020.00	1004.00	1024080.00
7	07010502	Erection	cum	1020.00	250.00	255000.00
		Reinforced concrete for foundation & trench.				
8	07010601	Supply	cum	130.00	1209.00	157170.00
9	07010602	Erection	cum	130.00	302.00	39260.00
		Cable trench covers				
10	07010701	Supply	Sqm	290.00	446.00	129340.00
11	07010702	Erection	Sqm	290.00	106.00	30740.00
		Reinforced brick work to Baffle wall:- Reinforced brick work.				
12	07010801	Supply	cum	50.00	1121.00	56050.00
13	07010802	Erection	cum	50.00	222.00	11100.00
		Reinforced brick work to Baffle wall:- Plastering of brick work.				
14	07010901	Supply	Sqm	200.00	18.00	3600.00
15	07010902	Erection	Sqm	200.00	12.00	2400.00

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		Supply, fabrication, galvanisation & erection of steel gantries/portals supporting structures and small parts steel work.				
16	07011001	Supply	MT	60.00	32829.00	1969740.00
17	07011002	Erection	MT	60.00	832.00	49920.00
		Erection, testing and commissioning of 132 kV double pole SF-6 circuit breaker.				
18	07011202	Erection	Each	2.00	2101.00	4202.00
		Supply & erection of 132 kV double pole isolator (manually operated)				
19	07011301	Supply	Each	5.00	118716.00	593580.00
20	07011302	Erection	Each	5.00	845.00	4225.00
		Extra for supply & erection for earthing blade assembly for 132 kV double pole isolator (manually operated)				
21	07011401	Supply	Each	2.00	9044.00	18088.00
22	07011402	Erection	Each	2.00	178.00	356.00
		Supply & erection of 132 kV current transformers.				
23	07011501	Supply	Each	4.00	103418.00	413672.00
24	07011502	Erection	Each	4.00	482.00	1928.00
		Supply & erection of 132 kV lightning arrestors				
25	07011601	Supply	Each	8.00	60514.00	484112.00
26	07011602	Erection	Each	8.00	341.00	2728.00
		Erection, testing & commissioning of 25kV single pole Vacuum Type Circuit Breaker.				
27	07011702	Erection	Each	10.00	1460.00	14600.00
		Extra for erection of Interlocking mechanism				
28	07011902	Erection	Each	28.00	52.00	1456.00
		Supply & erection of 25kV P.T.(Type-II)				
29	07012001	Supply	Each	6.00	22210.00	133260.00
30	07012002	Erection	Each	6.00	204.00	1224.00
		Supply & erection of 25kV C.T. (1500/750/5A)				
31	07012201	Supply	Each	12.00	28927.00	347124.00
32	07012202	Erection	Each	12.00	199.00	2388.00
		Erection of Control & Relay panel (board) for 25kV TSS				
33	07012302	Erection	Each	2.00	3904.00	7808.00
		Supply & erection of tubular aluminium bus bars 50x39mm dia.				
34	07012701	Supply	Metre	400.00	219.00	87600.00
35	07012702	Erection	Metre	400.00	14.00	5600.00
		Supply & erection of ZEBRA ACSR Conductor.				
36	07012801	Supply	Metre	800.00	135.00	108000.00
37	07012802	Erection	Metre	800.00	3.00	2400.00
		Supply & erection of bus bar junctions & connectors:- Rigid bimetallic terminal connector suitable for 50 dia Aluminium tubular bus bar to terminal pad of 25kV Isolator/CT (ID-11090).				
38	07012901	Supply	Each	70.00	962.00	67340.00
39	07012902	Erection	Each	70.00	8.00	560.00
		Supply & erection of bus bar junctions & connectors:- Details of expansion type terminal connector to suit 50 dia Aluminium tubular bus bar, terminal pad of 25kV CT/Isolator (ID-11060).				
40	07013001	Supply	Each	32.00	1491.00	47712.00
41	07013002	Erection	Each	32.00	8.00	256.00

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		Supply & erection of bus bar junctions & connectors:- 25kV system rigid Bus splice connector to suit 50 O/D Aluminium tube on both ways (ID-11180).				
42	07013101	Supply	Each	22.00	892.00	19624.00
43	07013102	Erection	Each	22.00	8.00	176.00
		Supply & erection of bus bar junctions & connectors:- 25kV system TEE connector to suit 50 O/D Aluminium tubular Bus bar (ID-11150).				
44	07013201	Supply	Each	22.00	947.00	20834.00
45	07013202	Erection	Each	22.00	8.00	176.00
		Supply & erection of bus bar junctions & connectors:- Rigid through connector to suit 50 dia Aluminium tubular Busbar & SPIDER AAC conductor for 25kV P.T. Type-II (ID-11110).				
46	07013301	Supply	Each	6.00	842.00	5052.00
47	07013302	Erection	Each	6.00	8.00	48.00
		Supply & erection of bus bar junctions & connectors:- 25kV system expansion Bus coupler on SI to suit 50 O/D Al. tube (ID-11210).				
48	07013401	Supply	Each	2.00	2021.00	4042.00
49	07013402	Erection	Each	2.00	8.00	16.00
		Supply & erection of bus bar junctions & connectors:- 25kV system Tee connector to suit 50, O/D Aluminium tubular Spider AAC conductor (ID-11140).				
50	07013501	Supply	Each	18.00	848.00	15264.00
51	07013502	Erection	Each	18.00	8.00	144.00
		Supply & erection of bus bar junctions & connectors:- 25kV system Tee to suit ZEBRA (28.58 dia) ACSR conductor on both ways (ID-11040).				
52	07013601	Supply	Each	72.00	907.00	65304.00
53	07013602	Erection	Each	72.00	8.00	576.00
		Supply & erection of bus bar junctions & connectors:- Rigid terminal conductor suitable for 20 dia Al. conductor to terminal pad of 132/66 kV CB, Isolator & 25kV PT Type I & II (ID-11120).				
54	07013701	Supply	Each	72.00	729.00	52488.00
55	07013702	Erection	Each	72.00	8.00	576.00
		Supply & erection of bus bar junctions & connectors:- Rigid connector on SI to suit 50 mm O/D Al. Bus bar (ID-11200).				
56	07013801	Supply	Each	50.00	356.00	17800.00
57	07013802	Erection	Each	50.00	8.00	400.00
		Supply & erection of bus bar junctions & connectors:- Sliding clamp for 50mm O/D Al. bus bar (ID-11190).				
58	07013901	Supply	Each	4.00	531.00	2124.00
59	07013902	Erection	Each	4.00	8.00	32.00
		Supply & erection of bus bar junctions & connectors:- Rigid connector on SI to suit ZEBRA (28.58 dia) ACSR conductor (ID-11050).				
60	07014001	Supply	Each	28.00	379.00	10612.00
61	07014002	Erection	Each	28.00	8.00	224.00
		Supply & erection of 132 kV Support Insulator.				
62	07015301	Supply	Each	14.00	12623.00	176722.00
63	07015302	Erection	Each	14.00	161.00	2254.00

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		Supply & erection of 25kV Support Insulator.				
64	07015401	Supply	Each	50.00	1543.00	77150.00
65	07015402	Erection	Each	50.00	46.00	2300.00
		Supply and erection of 132 KV termination with disc insulator with adjuster.				
66	07015501	Supply	Each	4.00	4719.00	18876.00
67	07015502	Erection	Each	4.00	84.00	336.00
		Supply and erection of 132 KV termination with disc insulator without adjuster.				
68	07015601	Supply	Each	4.00	4431.00	17724.00
69	07015602	Erection	Each	4.00	84.00	336.00
		Supply & erection of 110V, 200 AH, Low maintenance Lead Acid Batteries.				
70	07015901	Supply	Set	2.00	147486.00	294972.00
71	07015902	Erection	Set	2.00	2294.00	4588.00
		Supply & erection of Battery Chargers for 110V, 200 AH Low maintenance Batteries.				
72	07016001	Supply	Each	4.00	86800.00	347200.00
73	07016002	Erection	Each	4.00	270.00	1080.00
		Supply & erection of 240V L.T. Distribution Boards in the control room for 25 kVA L.T supply transformer.				
74	07016101	Supply	Each	2.00	17050.00	34100.00
75	07016102	Erection	Each	2.00	233.00	466.00
		Supply & erection of 110V DC distribution boards.				
76	07016201	Supply	Each	2.00	7651.00	15302.00
77	07016202	Erection	Each	2.00	170.00	340.00
		Supply & installation of cables:- For circuit breakers & Interruptor control and indication circuits. (7x2.5sq mm copper)				
78	07016301	Supply	Metre	4800.00	59.00	283200.00
79	07016302	Erection	Metre	4800.00	4.00	19200.00
		Supply & installation of cables:- For transformer alarm/trip circuits & tap changer control.(10x2.5 sq. mm copper)				
80	07016401	Supply	Metre	1000.00	83.00	83000.00
81	07016402	Erection	Metre	1000.00	4.00	4000.00
		Supply & installation of cables:- For Transformers bushing CT circuits & 110V DC circuits.(4x4sq mm copper)				
82	07016501	Supply	Metre	640.00	57.00	36480.00
83	07016502	Erection	Metre	640.00	4.00	2560.00
		Supply & installation of cables:- Current transformer circuits 110V DC & 240V AC supply circuits. (2x4sqmm copper)				
84	07016601	Supply	Metre	2200.00	33.00	72600.00
85	07016602	Erection	Metre	2200.00	4.00	8800.00
		Supply & installation of cables:- Potential transformer and 240V AC Supply Circuits.(2x2.5 sq.mm copper)				
86	07016701	Supply	Metre	1000.00	23.00	23000.00
87	07016702	Erection	Metre	1000.00	4.00	4000.00
		Supply & installation of cables:- 240V Heater Circuit(2x4 sq.mm Aluminium)				
88	07016801	Supply	Metre	1400.00	18.00	25200.00
89	07016802	Erection	Metre	1400.00	3.00	4200.00

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		Supply & installation of cables:- L.T. Power supply to control room.(2x150 sq.mm Al.)				
90	07016901	Supply	Metre	240.00	177.00	42480.00
91	07016902	Erection	Metre	240.00	6.00	1440.00
		Supply & erection of earth system:- Earth electrode.				
92	07017101	Supply	Each	84.00	989.00	83076.00
93	07017102	Erection	Each	84.00	309.00	25956.00
		Supply & erection of earth system:- Earth leads 75mm x 8mm mild steel laid in the ground.				
94	07017201	Supply	Metre	900.00	70.00	63000.00
95	07017202	Erection	Metre	900.00	19.00	17100.00
		Supply & erection of earth system:- Earth leads 50mm x 6mm mild steel laid in the ground.				
96	07017301	Supply	Metre	1400.00	34.00	47600.00
97	07017302	Erection	Metre	1400.00	14.00	19600.00
		Supply & erection of earth system:- Earth leads 75mm x 8mm mild steel flat laid exposed.				
98	07017401	Supply	Metre	140.00	70.00	9800.00
99	07017402	Erection	Metre	140.00	14.00	1960.00
		Supply & erection of earth system:- Earth leads 50mm x 6mm mild steel flat laid exposed.				
100	07017501	Supply	Metre	1600.00	34.00	54400.00
101	07017502	Erection	Metre	1600.00	12.00	19200.00
		Supply & erection of earth system:- 8 SWG G.I Wire for earthing.				
102	07017601	Supply	Metre	150.00	6.00	900.00
103	07017602	Erection	Metre	150.00	5.00	750.00
		Supply & erection of earth system:- 32mm dia MS Rod for earth mat.				
104	07017701	Supply	Metre	3200.00	80.00	256000.00
105	07017702	Erection	Metre	3200.00	5.00	16000.00
		Supply & erection of earth screen wires.				
106	07017801	Supply	Metre	540.00	89.00	48060.00
107	07017802	Erection	Metre	540.00	4.00	2160.00
		Supply & erection of fencing panels at sub-stations.				
108	07018001	Supply	Metre	600.00	617.00	370200.00
109	07018002	Erection	Metre	600.00	19.00	11400.00
		Supply & erection of gates				
110	07018201	Supply	Metre	20.00	621.00	12420.00
111	07018202	Erection	Metre	20.00	52.00	1040.00
		Supply & erection of anti-climbing device at sub-stations.				
112	07018301	Supply	Metre	620.00	100.00	62000.00
113	07018302	Erection	Metre	620.00	2.00	1240.00
		Erection, testing and commissioning of 132/27kV, 21.6/30.24 MVA single phase power transformer.				
114	07018402	Erection	Each	2.00	77430.00	154860.00
		Supply & spreading of Ballast/Gravel in the switch Yard.				
115	07018501	Supply	cum	500.00	345.00	172500.00
116	07018502	Erection	cum	500.00	2.00	1000.00
					<b>Total</b>	<b>9444643.00</b>
<b>Item- 2</b>	Schedule-1 Section-9					



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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Design and drawing for shunt capacitor banks				
1	08010102	Erection	Each	2.00	9555.00	19110.00
		Supply & erection of 220kV lightning arrestors				
2	08010201	Supply	Each	8.00	44343.00	354744.00
3	08010202	Erection	Each	8.00	3821.00	30568.00
		Supply and erection of 25KV single pole isolators (1600A)				
4	08010301	Supply	Each	20.00	5977.00	119540.00
5	08010302	Erection	Each	20.00	732.00	14640.00
		Supply and erection of 25KV double pole isolators (1600A)				
6	08010401	Supply	Each	6.00	13634.00	81804.00
7	08010402	Erection	Each	6.00	935.00	5610.00
		Erection, testing and commissioning of 220/27kV, 21.6/30.24 MVA single phase power transformer.				
8	08010502	Erection	Each	2.00	77430.00	154860.00
		Supply, Erection, testing & commissioning of shunt capacitor banks of 5500 KVAR at 40 KV				
9	08010601	Supply	Each	2.00	248228.00	496456.00
10	08010602	Erection	Each	2.00	7968.00	15936.00
		Supply, erection, testing & commissioning of low loss series reactor suitable for shunt capacitor banks of 5500 KVAR at 40kV.				
11	08010701	Supply	Each	2.00	296220.00	592440.00
12	08010702	Erection	Each	2.00	7654.00	15308.00
		Supply & erection of 25KV current transformers(200-100/5A)				
13	08010801	Supply	Each	2.00	23916.00	47832.00
14	08010802	Erection	Each	2.00	1296.00	2592.00
		Supply & erection of 25KV neutral current transformers.				
15	08010901	Supply	Each	2.00	24643.00	49286.00
16	08010902	Erection	Each	2.00	1249.00	2498.00
					<b>Total</b>	<b>2003224.00</b>
<b>Item- 3</b>	Schedule-1 Section-10					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
		Erection, testing and commissioning of 220kV double pole SF-6 circuit breaker.				
1	09010102	Erection	Each	2.00	7835.00	15670.00
		Supply & erection of 220kV double pole isolator (manually operated)				
2	09010201	Supply	Each	5.00	124616.00	623080.00
3	09010202	Erection	Each	5.00	5390.00	26950.00
		Extra for supply & erection for earthing blade assembly for 220kV double pole isolator (manually operated)				
4	09010301	Supply	Each	2.00	11538.00	23076.00
5	09010302	Erection	Each	2.00	3385.00	6770.00
		Supply & erection of 220kV current transformers.				
6	09010401	Supply	Each	4.00	175792.00	703168.00
7	09010402	Erection	Each	4.00	4752.00	19008.00
		Supply & erection of 220kV Support Insulator.				
8	09010501	Supply	Each	14.00	12738.00	178332.00
9	09010502	Erection	Each	14.00	919.00	12866.00

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		Supply and erection of 220KV termination with disc insulator with adjuster.				
10	09010601	Supply	Each	4.00	6345.00	25380.00
11	09010602	Erection	Each	4.00	389.00	1556.00
		Supply and erection of 220KV termination with disc insulator without adjuster.				
12	09010701	Supply	Each	4.00	6210.00	24840.00
13	09010702	Erection	Each	4.00	389.00	1556.00
					<b>Total</b>	<b>1662252.00</b>
<b>Schedule</b>	Schedule 103-TSS NS Items					
<b>Item- 1</b>	Sch-1, Sec-11 (Part-A)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Supply of 110 kV or/and 132 KV Double Pole SF-6 Type Circuit Breaker.				
1	01010101	Supply	Each	2.00	694568.84	1389137.68
		Supply of 220 kV double pole SF-6 Type circuit breaker				
2	01010201	Supply	Each	2.00	1429959.17	2859918.34
		Supply of 25 KV Single Pole Vacuum Type Circuit Breaker.				
3	01010401	Supply	Each	10.00	422046.95	4220469.50
					<b>Total</b>	<b>8469525.52</b>
<b>Item- 2</b>	Sch-1, Sec-11 (Part-C)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		Supply of Control & Relay Panel (Board) for 25 KV, TSS				
1	03010101	Supply	Each	2.00	4543461.45	9086922.90
		Supply & Erection of Control & Relay Panel (Board) for Shunt Capacitor Bank				
2	03010201	Supply	Each	2.00	833716.36	1667432.72
3	03010202	Erection	Each	2.00	7674.92	15349.84
					<b>Total</b>	<b>10769705.46</b>
<b>Item- 3</b>	Sch-1, Sec-11 (Part-D)					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
		ABT (Availability Based Tariff) meter arrangement along with its all associated equipments including CTs/PTs of 0.2S Class.				
1	04010101	Supply	Each	2.00	1074382.44	2148764.88
2	04010102	Erection	Each	2.00	81509.31	163018.62
					<b>Total</b>	<b>2311783.50</b>

**4. ELIGIBILITY CONDITIONS**

**Standard Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Financial Eligibility Criteria- The tenderer must have received contractual payments in the previous three financial years and the current financial year upto the date of opening of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client and/or Audited Balance Sheet duly certified by the Chartered Accountant etc. The details shall be furnished in Form-12 Sheet-5. 14.15.2:- Financial Eligibility Criteria The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 12.2 of Preamble. The "financial capacity" of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 12.2 of Preamble. 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)
1.1	Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-II of Part-I, Chapter-I. (Note: Bid Capacity requirement shall be applicable for tenders of advertised cost more than Rs. 50 crore)	No	No	Not Allowed

**Submission of Affidavit**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please submit notarized affidavit on a non-judicial stamp paper in the prescribed format (please download format from the link given below) for verification / confirmation of the documents submitted for compliance of eligibility/qualifying criteria. Non submission of properly filled affidavit in the prescribed format shall lead to summary rejection of your offer. <a href="#">Click here</a> to download the format for Affidavit	No	No	Allowed (Mandatory)

**Standard Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	12.1. The tenderer must have successfully completed during last 05 (five) years, ending last day of month previous to the one in which tender is invited - (A)For OHE portion:(i)At least one work of OHE erection of at least equal to 35% of Tender value of OHE component of work. OR (ii)At least one work of OHE erection of at least equal to 35% of total TKM of OHE component of work. OR (iii)At least one work of construction of transmission line of 66 kV or above voltage for at least equal to 35% of Tender value of OHE component of work AND should also have experience of having completed at least 50 TKM of 25 KV OHE work from a single completed work/single on-going work. The work of OHE in a contract shall be considered as completed if Provisional Acceptance is issued. Note: For (i) and (ii) above, the work of OHE in a contract shall be considered as completed, if Provisional Acceptance /Final Acceptance Certificate is issued for all the sections of a contract. AND (B)For TSS portion: At least one work involving construction of Electrical Sub-station of 66 kV or above for at least equal to 35% of the tender value of TSS component of work. Note: The work of Substation will be considered completed if Provisional Acceptance/Final Acceptance Certificate is issued for all Sub-stations of a contract. The details shall be furnished in Form-12 Sheet-1. 14.15.1:- Technical Eligibility Criteria for works with composite components (i)The technical eligibility for each component of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'lead member of the JV'. Each other member of JV shall have technical capacity of minimum 10% of the cost of any component of work i.e., each JV member must have satisfactorily 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 cost of any component of work OR (ii) The technical eligibility for major component of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'lead member of the JV' and technical eligibility for other components of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'. Each other member of JV shall have technical capacity of minimum 10% of the cost of any component of work i.e., each JV member must have satisfactorily 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 cost of any component of work.	No	No	Allowed (Mandatory)

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1.1	Note (a) Technical Capacity of other members of JV shall be considered as satisfied, if Provisional Acceptance/Final Acceptance Certificate for minimum 10% cost of any component (OHE/TSS/Transmission line) of work, has been received for any completed/on-going work. The term 'Technical Capacity' and 'Technical Eligibility' have identical definition. (b) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work. (c) Value of a completed work done 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 his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration.	No	No	Not Allowed
1.2	Separate completed works of minimum required values for each component can also be considered for fulfillment of technical eligibility criteria. In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. Any work or set of works shall be considered to be a separate component, only when cost of the component is more than Rs. 2 crore each.	No	No	Not Allowed
1.3	Definition of OHE Works :- Design, Supply, Erection, Testing & Commissioning of 25 kV, 50 Hz, AC, Single phase, Traction Overhead Equipments, Switching Stations, Booster Transformer Stations and LT Supply Transformer Stations including foundations, structures and all Ancillary Equipments. Definition of TSS Works :- Work of Design, Supply, Erection, Testing & commissioning of new Sub-station of 66 kV or higher voltage. or Work of upgradation/ Augmentation of existing substation of 66 kV or higher voltage, comprising at least commissioning of Power Transformer, Control Switchgear and control panel etc.	No	No	Not Allowed

**5. COMPLIANCE**

**Check Lst**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Have you attached the digitally signed copy of tender document.	No	No	Not Allowed
2	Form-1A (Offer Letter): Have you submitted Offer Letter i.e. Form-1A.	No	No	Not Allowed
3	Form-4 (Alternative Proposal of the Tenderer): Have you submitted Form-4.	No	No	Not Allowed
4	Form -10, Schedule 1 to 3: Have you submitted Tenderer's Scheme of Work and Time Schedule for OHE and TSS Works.	No	No	Not Allowed
5	Form-11A: Have you submitted Form 11A i.e. Name of manufacturer's place of manufacturer and inspection of Supplies (CORE/RDSO approved sources).	No	No	Not Allowed
6	Form-11B: Have you submitted Form 11B i.e. Name of manufacturer's place of manufacturer and inspection of Supplies (Other than CORE/RDSO approved sources).	No	No	Not Allowed
7	Form-12A, Sheet 1 to 5: Have you submitted Form-12A, Sheet 1 to 5 i.e. Tenderer's Credentials with details for OHE.	No	No	Not Allowed
8	Form-12B : Have you submitted Form-12B i.e. Tenderer's Credentials with details for TSS work.	No	No	Not Allowed
9	Form-12D : Have you submitted Form-12D i.e. Tenderer's Credentials with details for Bid Capacity.	No	No	Not Allowed
10	Form-24: Have you submitted Form-24 i.e. Bank details in the proforma to facilitate e-payment via NEFT/RTGS etc	No	No	Not Allowed
11	Form-28: Have you submitted Form-28 i.e. format for Affidavit in case of Two Packet System of tendering	No	No	Not Allowed

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	This tender complies with Public Procurement Policy Order 2017 dated 15/06/2017.	No	No	Not Allowed
1.1	Local content: The minimum local content shall be 50%.	No	No	Not Allowed
1.2	Margin of Purchase Preference: The margin of purchase preference shall be 20%.	No	No	Not Allowed
2	ELECTRONIC REVERSE AUCTION(e-RA) will be followed for tenders valued more than Rs. 50 Crore.	No	No	Not Allowed

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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)
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**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	In Standard Technical Criteria, it should be noted that S.No.1.1, 1.2 & 1.3 are part of S.No.1, hence required documents if any for S.No.1.1, 1.2 & 1.3 may be uploaded as per S.No.1	No	No	Not Allowed
2	Payment of each group of items shall be on the basis of rates indicated in above tables duly modified by percent above/below/at par accepted by Railway Administration.	No	No	Not Allowed
3	Tenderers will examine the various provisions of the Central Goods and Services Tax Act 2017(CGST/Integrated Goods and Services Tax Act. 2017(IGST)/Union Territory Goods and Services Tax Act,2017(UTGST)/ respective state's State Gods and Services Tax Act ( SGST) also as notified by Central /State Govt & as amended form time to time and applicable taxes before bidding. Tenderers will ensure that full benefit to Input Tax likely to be availed by them is duly considered while quoting rates. Offered rates of each group of items shall be considered to include all Taxes, Octroi, cost of Labour, T P, Machinery, Vehicles, Lift, Ascent, Descent etc. complete. No compensation of any account will be paid except the accepted rates.	No	No	Not Allowed
4	Every possible fluctuation, in the rate of labour, material and general commodities and other possibilities of each and every kind which may affect the rates should be considered and kept in view before quoting the rates. No claim on this account shall be entertained by the Railway under any circumstances except the price escalation payable as per price variation clause, if any, provided separately in the tender documents.	No	No	Not Allowed
5	Additional conditions or stipulations if any must be made by the tenderer/s in a covering letter with the tender. The Railway reserves the right not to consider conditional tenders and reject the same without assigning any reason. Only those additional conditions, which are explicitly accepted by the Railway, shall form part of the contract.	No	No	Not Allowed
6	"Notes" at the end of FORM wherever given are to be reproduced. Tenderers should not add their own 'Notes' below any FORM unless otherwise specified.	No	No	Not Allowed
7	Tenderer should ensure that only one copy each of the Forms (of respective Parts) mentioned above, are submitted along with their offers in case of JV firm.	No	No	Not Allowed

**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	TENDERER'S CREDENTIALS FOR OHE & TSS WORKS: for OHE, give details of your previous experience on installation of similar equipment and the details of present work load in the proforma given in Form-12A, Sheet-1 & 12A, Sheet-2. For TSS give details of your previous experience on installation of similar equipment and the details of present work load in the proforma given in Form-12B, Sheet-1	No	No	Allowed (Mandatory)
1.1	A digitally signed pdf copy of Tender Document is required to be uploaded by Bidder in token of his having studied the Tender Papers carefully.	Yes	Yes	Allowed (Mandatory)
1.2	Give details of Engineering organisation, Technical Capabilities, Design and Drawing Capabilities in Form-12A, Sheet-3.	No	No	Allowed (Mandatory)
1.3	Give details of construction machinery, Tools and plants, Vehicles etc in Form-12A, Sheet-4.	No	No	Allowed (Mandatory)

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1.4	SCHEDULE OF WORK for OHE: The Tenderer shall enclose with his offer the scheme of work and realistic time schedule (Form-10, Sheet-1 & 2) on graph paper showing the period of time that he will take for the various items of work listed therein for each section separately. Each section would be 100 TKMs approximately and the priority of the sections for completion of work would be given by the purchaser. The tenderer shall indicate in the form of notes to the schedule the assumptions and the basis adopted for the preparation of the time schedule.	No	No	Allowed (Mandatory)
1.5	SCHEDULE OF WORK for TSS: The Tenderer shall enclose with his offer the scheme of work and time schedule for each traction sub-station (See Form-10, Sheet-3) on graph paper showing the period of time that he will take for the various items of work listed therein, the Tenderer shall indicate in the form of notes to the schedule the assumptions and the basis adopted for the preparation of the time schedule.	No	No	Allowed (Mandatory)
1.6	Declaration to be submitted regarding NAME OF MANUFACTURER/S, PLACES OF MANUFACTURE & INSPECTION of supplies(CORE/RDSO APPROVED SOURCES)in Form-11(A)	No	No	Allowed (Mandatory)
1.7	Declaration to be submitted regarding NAME OF MANUFACTURER, PLACES OF MANUFACTURE & INSPECTION of supplies(other than CORE/RDSO APPROVED SOURCES)in Form-11(B)	No	No	Allowed (Mandatory)
1.8	Alternative Proposal (Form-4): Should the Tenderers have alternative proposals for basic arrangements, typical designs and specifications drawings for components and materials (See Para 1.1.10) which the Tenderer considers would improve the operating performance of the equipment or would reduce the cost of the equipment, he shall incorporate them in the Tender for consideration by the Purchaser Form-4. He shall clearly indicate in detail the technical and /or financial advantages which would accrue to the Purchaser, specifically for each alternative proposal suggested by him.	No	No	Allowed (Mandatory)
1.9	In support of Financial Eligibility Criteria (Form 12A, Sheet-5): Bidder is required to submit in support of Financial Eligibility Criteria, Contract amount received during the last three financial years and in the current financial year as per audited balance sheet duly certified by Chartered Accountant	No	No	Allowed (Mandatory)
1.9.1	In support of Bid Capacity (Form-12D), Tenderer is required to submit in support of Bid Capacity as per the format of Form-12D, duly verified by Chartered Accountant.	No	No	Allowed (Mandatory)
1.10	Form-24 (For payment through NEFT/RTGS etc.): Tenderers are required to submit their bank details in the proforma given in FORM-24 to facilitate e-payment vide NEFT/RTGS	No	No	Allowed (Mandatory)
1.11	FOR Joint Venture Firms (para 17 of GCC):Participation of Joint Venture (JV) Firms in Works tender : Joint Venture shall be considered only for tenders where advertised estimated cost of the work is more than Rs. 10 Crores (Rupees Ten Crores) only. The stipulations of Joint Venture shall be as per Clause-17 of General Conditions of Contract (GCC) which is reproduced as under: Documents to be enclosed by the JV Firm along with the tender.	No	No	Not Allowed
1.11.1	14.1:- Separate identity/name shall be given to the Joint Venture.	Yes	Yes	Not Allowed
1.11.2	14.2:- Number of members in a JV shall not be more than three, if the work involves only one department (say Civil or S&T or Electrical or Mechanical) and shall not be more than five, if the work involves more than one Department. One of the members of the JV shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with upto three members and not less than 10% each in case of JV with more than three members. In case of JV with foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%.	Yes	Yes	Not Allowed
1.11.3	14.3:- A member of JV shall not be permitted to participate either in individual capacity or as a member of another JV in the same tender.	Yes	Yes	Not Allowed
1.11.4	14.4:- The tender form shall be purchased and submitted only in the name of the JV and not in the name of any constituent member.	Yes	Yes	Not Allowed
1.11.5	14.5:- Earnest Money Deposit (EMD) shall be deposited by JV or authorized person of JV through e payment gateway or as mentioned in tender document.	No	No	Not Allowed

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1.11.6	14.6:- A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV alongwith the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. (The MoU format for this purpose shall be finalized by the Railway in consultation with their Law Branch and shall be enclosed alongwith the tender). Format for MOU is enclosed as Form-23.	No	No	Allowed (Mandatory)
1.11.7	14.7:- Once the tender is submitted, the MoU shall not be modified / altered / terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be liable to be forfeited.	No	No	Not Allowed
1.11.8	14.8:- Approval for change of constitution of JV shall be at the sole discretion of the Railway. The constitution of the JV shall not be allowed to be modified after submission of the tender bid by the JV, except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. However, the Lead Member shall continue to be the Lead Member of the JV. Failure to observe this requirement would render the offer invalid.	No	No	Not Allowed
1.11.9	14.9:- Similarly, after the contract is awarded, the constitution of JV shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.	No	No	Not Allowed
1.11.10	14.10:- On award of contract to a JV, a single Performance Guarantee shall be submitted by the JV as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, Machinery Advance etc. shall be accepted only in the name of the JV and no splitting of guarantees amongst the members of the JV shall be permitted.	No	No	Not Allowed
1.11.11	14.11:- On issue of LOA (Letter of Acceptance), the members of the JV to whom the work has been awarded, shall form a legal entity if not already formed, which shall have the same shareholding pattern, as was declared in the MOU/JV Agreement submitted alongwith the tender. This entity shall be got registered before the Registrar of the Companies under 'The Companies Act -2011' (in case of Company) or before the Registrar/Sub-Registrar under the 'Registration Act, 1908' (in case of Partnership Firm) or under 'The LLP Act 2008' (in case of LLP). A separate PAN shall be obtained for this entity. The documents pertaining to this entity including its PAN shall be furnished to the Railways before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation within 60 days of issue of LOA, contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit the full amount of the Earnest Money Deposit and other dues payable to the Contractor under this contract. This Joint Venture Agreement shall have, inter-alia, following Clauses:	No	No	Not Allowed
1.11.12	14.11.1:- Joint And Several Liability - Members of the JV to which the contract is awarded, shall be jointly and severally liable to the Railway for execution of the project in accordance with General and Special Conditions of Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.	No	No	Not Allowed
1.11.13	14.11.2:- Duration of the Joint Venture Agreement - It shall be valid during the entire currency of the contract including the period of extension, if any and the maintenance period after the work is completed.	No	No	Not Allowed
1.11.14	14.11.3:- Governing Laws - The Joint Venture Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.	No	No	Not Allowed
1.11.15	14.12:- Authorized Member - Joint Venture members in the JV MoU shall authorize one of the members on behalf of the Joint Venture to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV.	No	No	Not Allowed

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1.11.16	14.13:- No member of the Joint Venture shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the Railway in respect of the said tender/contract.	No	No	Not Allowed
1.11.17	14.14:- Documents to be enclosed by the JV alongwith the tender:	No	No	Allowed (Optional)
1.11.18	14.14.1:- In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted: (a) A copy of the Partnership Deed, (b) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, (c) A copy of Power of Attorney (duly registered as per prevailing law) in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm.	No	No	Allowed (Optional)
1.11.19	14.14.2:- In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed: A copy of notarized affidavit on Stamp Paper declaring that his/her Concern is a Proprietary Concern and he/she is sole proprietor of the Concern OR he/she is in position of "KARTA" of Hindu Undivided Family (HUF) and he/she has the authority, power and consent given by other partners to act on behalf of HUF.	No	No	Allowed (Optional)
1.11.20	14.14.3:- In case one or more members of the JV is/are companies, the following documents shall be submitted: (a)A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, (b) A copy of Memorandum and Articles of Association of the Company. (c) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company.	No	No	Allowed (Optional)
1.11.21	14.14.4:- All the Members of JV shall certify that they are not blacklisted or debarred by Railways or any other Ministry / Department / PSU (Public Sector Undertaking) of the Govt. of India/State Govt. from participation in tenders/contract on the date of opening of bids either in their individual capacity or as a member of the JV in which they were/are members.	No	No	Allowed (Mandatory)
1.11.22	14.15:- Credentials & Qualifying Criteria: Technical, financial eligibility and Bid capacity of the JV shall be adjudged based on satisfactory fulfillment of the following criteria:	No	No	Not Allowed
1.11.23	14.15.1:- Technical Eligibility Criteria for works with composite components (i)The technical eligibility for each component of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'lead member of the JV'. Each other member of JV shall have technical capacity of minimum 10% of the cost of any component of work i.e., each JV member must have satisfactorily 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 cost of any component of work. OR (ii) The technical eligibility for major component of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'lead member of the JV' and technical eligibility for other components of work as per para 12.1 of Preamble, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'. Each other member of JV shall have technical capacity of minimum 10% of the cost of any component of work i.e., each JV member must have satisfactorily 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 cost of any component of work. Note (a) Technical Capacity of other members of JV shall be considered as satisfied, if Provisional Acceptance/Final Acceptance Certificate for minimum 10% cost of any component (OHE/TSS/Transmission line) of work, has been received for any completed/on-going work. The term 'Technical Capacity' and 'Technical Eligibility' have identical definition. (b) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work. (c) Value of a completed work done 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 his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration.	No	No	Not Allowed



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1.11.24	14.15.2:- Financial Eligibility Criteria The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 12.2 of Preamble. The "financial capacity" of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 12.2 of Preamble. 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	Not Allowed
1.12	15:- Participation of Partnership Firms in works tenders:	No	No	Not Allowed
1.12.1	15.1:- The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.	No	No	Not Allowed
1.12.2	15.2:- The partnership firm should have been in existence or should have been formed prior to submission of tender. Partnership firm should have either been registered with the Registrar or the partnership deed should have been notarized prior to date of tender opening as per the Indian Partnership Act.	No	No	Not Allowed
1.12.3	15.3:- Separate identity / name should be given to the partnership firm. The partnership firm should have PAN / TAN number in its own name and PAN / TAN number in the name of any of the constituent partners shall not be considered. The valid constituents of the firm shall be called partners.	No	No	Not Allowed
1.12.4	15.4:- Once the tender has been submitted, the constitution of the firm shall not be allowed to be modified / altered / terminated during the validity of the tender as well as the currency of the contract except when modification becomes inevitable due to succession laws etc., in which case prior permission should be taken from Railway and in any case the minimum eligibility criteria should not get vitiated. The re-constitution of firm in such cases should be followed by a notary certified Supplementary Deed. The approval for change of constitution of the firm, in any case, shall be at the sole discretion of the Railways and the tenderer shall have no claims whatsoever. Any change in the constitution of Partnership firm after opening of tender shall be with the consent of all partners and with the signatures of all partners as that in the Partnership Deed. Failure to observe this requirement shall render the offer invalid and full EMD shall be forfeited. If any Partner/s withdraws from the firm after opening of the tender and before the award of the contract, the offer shall be rejected. If any new partner joins the firm after opening of tender but prior to award of contract, his / her credentials shall not qualify for consideration towards eligibility criteria either individually or in proportion to his share in the previous firm. In case the tenderer fails to inform Railway beforehand about any such changes / modification in the constitution which is inevitable due to succession laws etc. and the contract is awarded to such firm, then it will be considered a breach of the contract conditions liable for determination of the contract under Clause 62 of General Conditions of Contract.	No	No	Not Allowed
1.12.5	15.5:- A partner of the firm shall not be permitted to participate either in his individual capacity or as a partner of any other firm in the same tender.	No	No	Not Allowed
1.12.6	15.6:- The tender form shall be submitted only in the name of partnership firm. The EMD shall be deposited by partnership firm through e-payment gateway or as mentioned in tender document. The EMD submitted in the name of any individual partner or in the name of authorized partner (s) shall not be considered.	No	No	Not Allowed
1.12.7	15.7:- One or more of the partners of the firm or any other person (s) shall be designated as the authorized person (s) on behalf of the firm, who will be authorized by all the partners to act on behalf of the firm through a "Power of Attorney", specially authorizing him / them to submit & sign the tender, sign the agreement, receive payment, witness measurements, sign measurement books, make correspondences, compromise / settle / relinquish any claim (s) preferred by the firm, sign "No Claim Certificate", refer all or any dispute to arbitration and to take similar such action in respect of the said tender / contract. Such "Power of Attorney" shall be notarized / registered and submitted along with the tender.	No	No	Not Allowed

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1.12.8	15.8:- On issue of Letter of Acceptance (LOA) to the partnership firm, all the guarantees like Performance Guarantee, Guarantee for various Advances to the Contractor shall be submitted only in the name of the partnership firm and no splitting of guarantees among the partners shall be acceptable.	No	No	Not Allowed
1.12.9	15.9:- On issue of Letter of Acceptance (LOA), contract agreement with partnership firm shall be executed in the name of the firm only and not in the name of any individual partner.	No	No	Not Allowed
1.12.10	15.10:- In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following undertakings shall be furnished by all the partners through a notarized affidavit, before signing of contract agreement. (a) Joint and several liabilities: The partners of the firm to which the Letter of Acceptance (LOA) is issued, shall be jointly and severally liable to the Railway for execution of the contract in accordance with General and Special Conditions of the Contract. The partners shall also be liable jointly and severally for the loss, damages caused to the Railway during the course of execution of the contract or due to non-execution of the contract or part thereof. (b) Duration of the partnership deed and partnership firm agreement: The partnership deed/partnership firm agreement shall normally not be modified/altere/ terminated during the currency of contract and the maintenance period after the work is completed as contemplated in the conditions of the contract. Any change carried out by partners in the constitution of the firm without permission of Railway, shall constitute a breach of the contract, liable for determination of the contract under Clause 62 of the General Conditions of Contract. (c) Governing laws: The partnership firm agreement shall in all respect be governed by and interpreted in accordance with the Indian laws. (d) No partner of the firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other partner/s and that of the Railway.	No	No	Not Allowed
1.12.11	15.11:- The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender: (a) A copy of partnership deed. (b) A copy of Power of Attorney (duly registered as per prevailing law) in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (c) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India / any State Govt. from participation in tenders / contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were / are partners. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.	No	No	Not Allowed
1.12.12	15.12:- Evaluation of eligibility of a partnership firm: Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfillment of the eligibility criteria laid down in Clause 12 of Preamble by the partnership firm.	No	No	Not Allowed
1.13	Form-28 (Affidavit, for Two Packet System of Tendering only): An affidavit is required to be submitted by all tenderers (As per Form-28). Based on this affidavit Tender committee will deliberate and decide eligibility of tenderers for Packet-A. Packet-B (Commercial Bid) of only eligible tenderers will be opened and relevant documents of eligible tenderers will be got verified after opening of Packet-B. The number of tenderers, whose documents are to be got verified, will be decided by the tender committee on the merit of the case. If contents in documents submitted by tenderers are found to be incorrect/false action will be taken against such tenderers as per provisions contained in Affidavit submitted by them as Form-28.	No	No	Allowed (Mandatory)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/We hereby Confirm that the rates, rebates and/or other financial terms, if any, quoted by us in the relevant fields of the Financial Bid page will only be the ruling terms for deciding the inter-se ranking, and any such condition having financial repercussions, if quoted by us anywhere else including attached documents shall not be considered for deciding inter-se ranking. However, Railways shall have the right to incorporate any such condition quoted by us, in the contract, at their discretion, if contract is placed on us.	No	No	Not Allowed

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2	I/We offer to do the work at the rates quoted in the tender schedule and hereby bind myself / ourselves to complete the work in all respects within the quoted period of completion, from the date of issue of letter of acceptance of tender.	No	No	Not Allowed
3	The full value of the Earnest Money submitted by me/ us shall stand forfeited without prejudice to any other rights or remedies in case my/ our tender is accepted and if:-	No	No	Not Allowed
3.1	I/We execute the contract documents within thirty days after receipt of the acceptance letter issued by the Railway that such documents are ready,	No	No	Not Allowed
3.2	I/We resile from my/our offer or modify the terms and conditions there of in a manner not acceptable to the CORE/Allahabad during a period of Validity of offer from date of the opening of the tender	No	No	Not Allowed
3.3	I/We submit a Performance Guarantee in the form as prescribed in Tender Paper Condition amounting to 5 Five percent of Contract Value as per the proforma as prescribed by the Railways, before signing of agreement, which should be normally 30 days.	No	No	Not Allowed
3.4	I/We commence the work within the period specified in Tender Paper after receipt of orders to that effect.	No	No	Not Allowed
4	I/We have read the various conditions attached/ referred to in this tender document, and agree to abide by the said conditions.	No	No	Not Allowed
5	I/We have visited the works site and I/We am/are aware about the site conditions	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	Addendum-1toTenderPaper.pdf	Addendum 1 to Tender Paper
2	TPGr.318319320Part-I.pdf	Tender Paper
3	TPGr.318319320Part-II.pdf	Tender Paper

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.

**Signed By: AKHILESH KUMAR SRIVASTAVA**

**Designation : Dy.CEE0HE3**