RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED,

#8, 1st Floor, Samparka Soudha, Dr. Rajkumar Road, Opposite Orion Mall,Rajajinagar 1st Block,
Bengaluru-560010

CORRIGENDUM No – 01 **Dated 01/11/2022**

NAME OF WORK: "Design, Supply, Erection, Testing & Commissioning of 25 KV, AC, 50 Hz, Single Phase, Traction Over Head Equipment for Doubling of Yesvantpur (Incl.) (km 224/000)– Banasawadi (Excl.) (km 211/090) Section (29 Track Kilometer approximately) including construction of Hebbal SP, Modification of Yesvantpur SSP and diversion of IR track for 6 nos. of LC elimination to construct Corridor-2 of BSRP."

Tender no K-RIDE/DL/16/2022 Dated 03/10/2022

Note: If there is any contradiction elsewhere also in the tender document, following changes is having overriding effect on them and prevails.

Sl. No	Part/ Section	ClauseNo.	As per tender document/ Information	Revised Bid Condition
1.	Section-1 Invitation for Tender (IFT)	36	**Last Date of Receipt and opening of Bids:** The completed Tenders must be submitted through Karnataka Public Procurement Portal https://eproc.karnataka.gov.in **not later than 15.00 Hrs. on 03/11/2022 and shall be opened on 04/11/2022 at 15.30 hrs.** K-RIDE will not be responsible for any delays in the receipt of Tender by K-RIDE. Late Tenders (received after stipulated date and time of submission of Tenders) shall not be accepted under any circumstances. K-RIDE reserves the right to accept/reject any or all proposals without	**Last Date of Receipt and opening of Bids:** The completed Tenders must be submitted through Karnataka Public Procurement Portal https://eproc.karnataka.gov.in **not later than 15.00 Hrs. on 15/11/2022 and shall be opened on 16/11/2022 at 15.30 hrs.** K-RIDE will not be responsible for any delays in the receipt of Tender by K-RIDE. Late Tenders (received after stipulated date and time of submission of Tenders) shall not be accepted under any circumstances. K-RIDE reserves the right to accept/reject any or all proposals

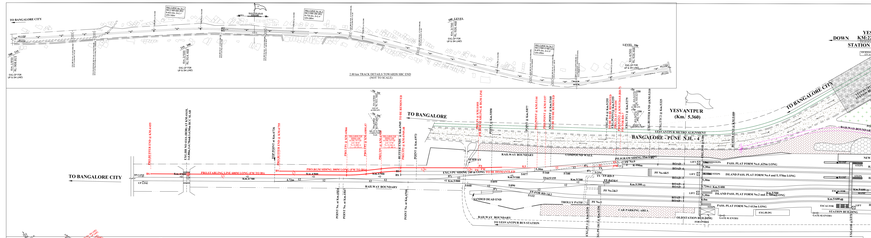
			assigning any reason thereof.	without assigning any reason thereof.
2.	**Section 7** PARTICULAR CONDITIONS OF CONTRACT (PCC)	Clause Price adjustment/ Contract data	PRICE VARIATION CLAUSE (PVC) **PVC For OHE WORKS** **1.0 For Non-Ferrous: - Schedule-A, F & G**	PRICE VARIATION CLAUSE (PVC) **PVC For OHE WORKS** **To be read as** **1.0 For Non-Ferrous: - Schedule-A, E & F**
3.	Section 8B Technical Specifications	Chapter-6 Erection and installation of Equipment	**TENSIONING OF CATENARY:** **TENSIONING OF CONTACT WIRE:**	**TENSIONING OF CATENARY:** **TENSIONING OF CONTACT WIRE :** No wiring train will be provided by K-RIDE.
4.	Section 8B Technical Specifications	ANNEXURE - 1 STANDARD DRAWINGS AND SPECIFICATIONS	**(G) LIST OF IS SPECIFICATION** **S No.** 2 **IS Code No.** IS:269-1989 **Descriptions:** Specification for 33 grade ordinary Portland cement (4th Rev)	**(G) LIST OF IS SPECIFICATION** **S No.** 2 **IS Code No.** IS:269-1989 **Descriptions:** Specification for 53 grade ordinary Portland cement.
5.	Section 9 Part A Bill of Quantities	Preamble	2. The Percentage/Amount are to be quoted in each section of the Bill of quantities (i.e. Schedule-A, B, C, D, E, F & G) Schedule -F : Supply of Contact Wire	**To be read as** 2. THE TENDERER SHOULD QUOTE SINGLE PERCENTAGE AGAINST BILL OF QUANTITY. Schedule -F: Supply of Catenary Wire
6.	Section 9 Part B Explanatory Notes	Item No. B3	**ITEM NO. B3 SUPPLY AND ERECTION OF FABRICATED STEEL WORK OTHERTHAN MAST BY MANUAL/CRANE.** NOTE FOR ITEM B (B1, B2, B3 & B4)	**ITEM NO. B3 SUPPLY AND ERECTION OF FABRICATED STEEL WORK OTHERTHAN MAST BY MANUAL/CRANE.** NOTE FOR ITEM B (B1, B2, B3 & B4) **To be read as**

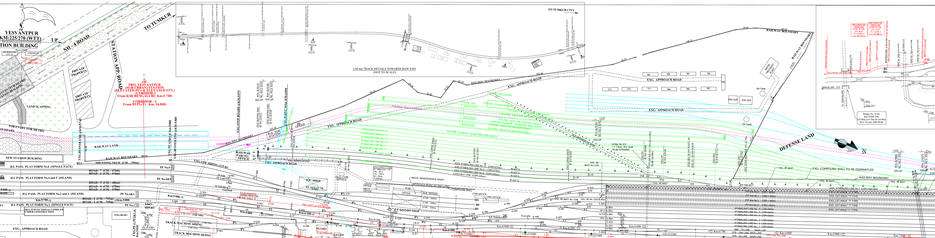
			(iii) The mast/ portals supplied under item 3 shall conforms to the following:	(iii) The mast/ portals supplied under item B shall conforms to the following:
7.	Section 9 Part B Explanatory Notes	Item No. D5	**ITEM NO. D5 : SUPPLY AND ERECTION OF A SINGLE BRACKET ASSEMBLY (INCLUDING STAY AND BRACKET INSULATORS)**	**SUPPLY AND ERECTION OF A SINGLE BRACKET ASSEMBLY (INCLUDING STAY AND BRACKET INSULATORS)** **To be added** The price shall include **Rly Id No.1174** **Description of Components: Packing Saddle** **Qty per unit :1EACH**
8.	Section 9 Part B Explanatory Notes	Item No. D7	**ITEM NO. D7: SUPPLY & ERECTION OF A SINGLE BRACKET ASSEMBLY SUITABLE TRAMWAY TYPE OVERHEAD EQUIPMENT (REGULATED) INCLUDING STAY AND BKT INSULATORS.**	**ITEM NO. D7: SUPPLY & ERECTION OF A SINGLE BRACKET ASSEMBLY SUITABLE TRAMWAY TYPE OVERHEAD EQUIPMENT (REGULATED) INCLUDING STAY AND BKT INSULATORS.** **To be added** The price shall include **Rly Id No.1174** **Description of Components: Packing Saddle** **Qty per unit :1EACH**
9.	Section 9 Part B Explanatory Notes	Item No. D39	**ITEM NO. D 39 SUPPLY AND ERECTION OF TRANSVERSE AND SPECIAL BOND** **NOTE for ITEM No. D37, D 38 and D 39** 5 If any bonds provided and got damaged by the packing machine during track alignment work etc., the same shall be replaced for which payment shall be	**ITEM NO. D 39 SUPPLY AND ERECTION OF TRANSVERSE AND SPECIAL BOND** **NOTE for ITEM No. D37, D 38 and D 39** 5 If any bonds provided and got damaged by the packing machine during track alignment work etc., the same shall be replaced for which payment shall

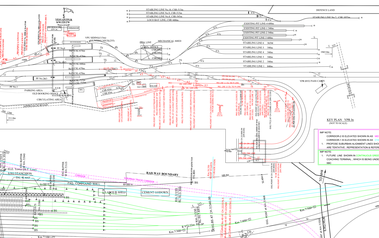
			made at the rates given under item No. 16 and the contractor shall set right/replace the same before handing over the assets to maintenance.	be made at the rates given under item No. **D37/D38/D39** and the contractor shall set right/replace the same before handing over the assets to maintenance.
10.	Section 9 Part B Explanatory Notes	Item No. D59	**ITEM NO. D59 SUPPLY AND ERECTION OFALUMINUM BUSBAR CONNECTORS**	**ITEM NO. D59 SUPPLY AND ERECTION OFALUMINUM BUSBAR CONNECTORS- ALUMINIUM BUS TERMINAL**
11.	Section 9 Part B Explanatory Notes	Item No. D60	**ITEM NO. D60 SUPPLY AND ERECTION OF SOLID COPPER BUSBAR CONNECTORS** The price shall cover supply and erection of solid copper busbar junctions and connectors of various types specified including bolts, nuts etc., required at junctions or terminations of solid copper busbars.	**To be Deleted.**
12.	Section 9 Part B Explanatory Notes	Item No. D78	**ITEM No. D78: SPLICING AND EXTENSION OF ANCHORED OVERHEAD EQUIPMENT** The length of the AC wire spliced will be paid based on **Schedule – G** rates applicable to the tender.	**ITEM No. D78: SPLICING AND EXTENSION OF ANCHORED OVERHEAD EQUIPMENT** The supply rates of length of the contact wire and catenary wire spliced will be paid under respective items.
13.	BOQ On e-procurement portal	Item No. D98	**ITEM NO D98-2 : CABLE TRECH COVER-Erection Only**	**ITEM NO D98-2 : SUPPLY AND ERECTION OF CABLE TRECH COVER**
14.	Section 9 Part B Explanatory Notes	Item No. D99	**ITEM NO. D99: Explanatory Note is Not available**	**ITEM NO. D99 SUPPLY AND ERECTION OF TERMINAL BOARDS IN CONTROL CUBICLES** The price shall cover supply and erection of a wall mounted terminal board made out of teak wood and well finished with two coating of varnish paint and have six numbers of two-way terminal blocks for connecting the cables from the outdoor equipment of a switching station as per Railway Drawing given in List `A' Annexure – I.

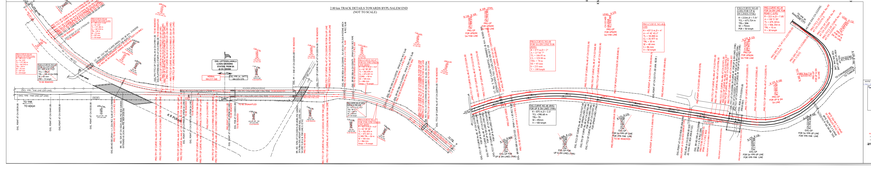
15.	Section 9 Part B Explanatory Notes	Item No. G3	**ITEM No. G3: Manning of Switching Stations/Traction Sub- stations**	**ITEM No. G3: Manning arrangements**
16.	Section 9 Part B Explanatory Notes	Item No. G4	**ITEM No. G4: Supply, Erection, oil filtration, testing and Commissioning of 25 kV/240 V, 5 kVA L.T. supply transformers.**	**ITEM No. G4: Supply, Erection, oil filtration, testing and Commissioning of 25 kV/240 V, 5 kVA L.T. supply transformers.** **To be added** The price also includes the cost of L.T. fuse box with 63 Amps to be mounted on the Aux. Tr. Mast.
17.	Section 9 Part B Explanatory Notes	Item No. G16	**ITEM No. G16: Supply of materials for Electrification of SP building & yard lighting**	**ITEM No. G16: Supply of materials for Electrification of SP building & yard lighting** **To be added** The price shall also include supply & fixing of Four nos. of tube lights, 1 Fan, 1 Exhaust Fan, 2 street lights of 30W for yard lighting
18.	Section 9 Part C Payment Procedure	**4.4 Schedule D:**	**4.4 Schedule D:** (ii) Other items except item No. D1, D2 & D3: (b) On Account Payment for Item No. D5-D7: BFB Steady arm – 1 mtr	**4.4 Schedule D:** (ii) Other items except item No. D1, D2 & D3: (b) On Account Payment for Item No. D5-D7: **To be read as** **Bent Steady arm**
19.	Section 9 Part C Payment Procedure	**4.5 Schedule G:**	**4.5 Schedule G:** The Payment against Schedules - G4, G5, G8, G14 & G15 shall be made to the extent of 90% of the accepted price on receipt of material.	**4.5 Schedule G:** **To be read as** The Payment against Schedules - G4, G5, G6, G7, G8, G9, G14 & G15 shall be made to the extent of 85% of the accepted price on receipt of material. The progress payment to the extent of 95% of the

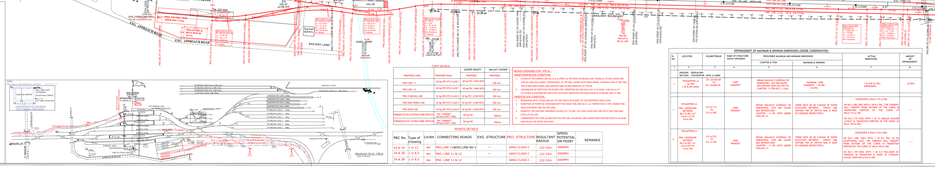
			The Payment against Schedules - G1, G2, G3, G6, G7, G9. G10, G11, G12 & G13 shall be made to the extent of 100% of the accepted price on receipt of material. Payment of balance 5% of prices shall be made after commissioning.	accepted price of supply shall be made after completion of erection of material after adjustment of **"On Account payment"** & other recoveries, if any, wherever applicable. Payment of balance 5% of prices shall be made after commissioning. The Payment against Schedules - G1, G2, G3, G10, G11, G12 & G13 shall be made to the extent of 100% of the accepted price on supply and erection of material.
20.	Approved ESPs of YPR, HEB are attached as Annexure-A			
21.	BOQ is attached as Annexure-B			
22.	Milestone for commissioning and access to site for OHE works are attached as Annexure-C			

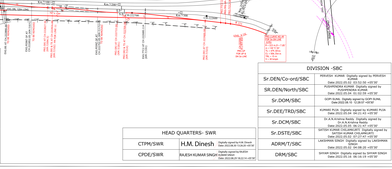












PREPARED BY:			
REV. NO.	DATE	DESCRIPTION	
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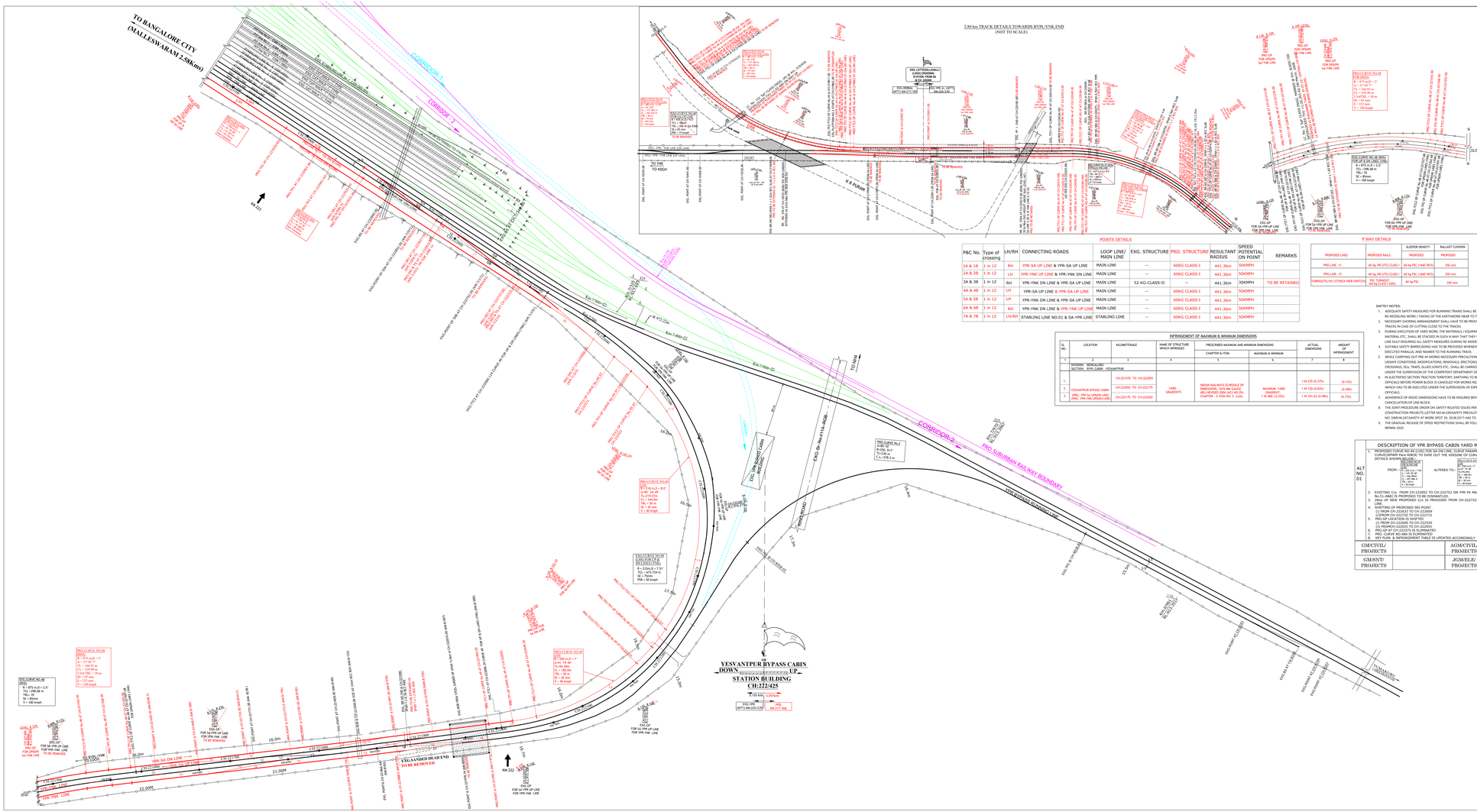
2	27-Aug-2015		
3	27-Aug-2015		
4	27-Aug-2015		
5	27-Aug-2015		


TO BANGALORE CITY (MALLESWARAM 2.5Km(m))
CORRIDOR-1
CORRIDOR-2
CORRIDOR-3
PRO. SUBURBAN RAILWAY BOUNDARY
YESVANTPUR BYPASS CABIN
DOWN
UP
STATION BUILDING
CH:222/425
EXG.SIG
(MTT) 6M:215/180
6M:217/368
EXG.LVL
(MTT) 6M:220/170
6M:217/368
EXG.SIG
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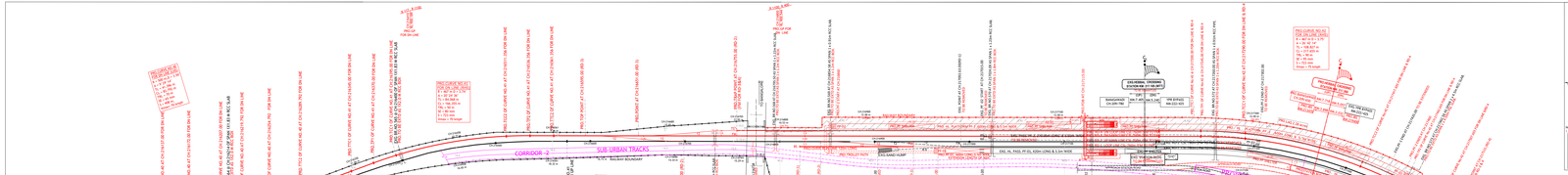
CORRIDOR
SUB URBAN TRACKS
PROPOSED SITE FOR SIGNAL
PROPOSED SITE FOR SIGNAL
PROPOSED SITE FOR SIGNAL

Annexure-B

Billl of Quantities

Schedule-A

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	A1-1	Supply (excluding supply of copper contact wire and catenary wire) of over head equipment.	KM	37	63574.09	2352241.33
2	A1-2	Erection (excluding supply of copper contact wire and catenary wire) of over head equipment.	KM	37	54721.03	2024678.11
3	A2-1	Supply (excluding supply of copper contact) of contact wire only(regulated with briddle wire)	KM	1	72482.62	72482.62
4	A2-2	Erection (excluding supply of copper contact) of contact wire only(regulated with briddle wire)	KM	1	45514.81	45514.81
5	A3-1	Supply of 25 kV Feeder wire.(Including 150 sq.mm Copper wire).	KM	2	1551397.27	3102794.54
6	A3-2	Erection of 25 kV Feeder wire.(Including 150 sq.mm Copper wire).	KM	2	29292.63	58585.26
7	A4-1	Supply (excluding supply of copper conductor) of anti creep with cadmium Copper Catenary Wire	EACH	26	10755.67	279647.42
8	A4-2	Erection (excluding supply of copper conductor) of anti creep with cadmium Copper Catenary Wire	EACH	26	2832.61	73647.86

Schedule-B

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	B1-1	Supply of fabricated mast K,B,S, series etc.	MT	215	148886.01	32010492.15
2	B1-2	Erection of fabricated mast K,B,S, series etc.	MT	215	5371.28	1154825.2
3	B2-1	Supply of 8''x8'', 8"x6", 6''x6'' mast and S1 to S8	MT	16	148886.01	2382176.16
4	B2-2	Erection of 8''x8'', 8"x6", 6''x6'' mast and S1 to S8	MT	16	5371.28	85940.48
5	B3-1	Supply of fabricated steel work other than masts by manual/crane	MT	342	155074.99	53035646.58
6	B3-2	Erection of fabricated steel work other than masts by manual/crane	MT	342	8808.02	3012342.84
7	B4-1	Supply of fabricated & galvanised small part steel steel work(SPS).	MT	36	151980.81	5471309.16
8	B4-2	Erection of fabricated & galvanised small part steel steel work(SPS).	MT	36	7333.65	264011.4

Schedule-C

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	C1-1	For Foundation and Plinth - Concrete in hard soil - Supply	CUM	70	7954.66	556826.2
2	C1-2	For Foundation and Plinth - Concrete in hard soil - Erection	CUM	70	1773.55	124148.5
3	C2-1	Concrete in rocky soil - Supply	CUM	70	8201.89	574132.3
4	C2-2	Concrete in rocky soil - Erection	CUM	70	2351.4	164598
5	C3-1	Concrete in other than hard soil and rock - Supply	CUM	2900	8279.53	24010637
6	C3-2	Concrete in other than hard soil and rock - Erection	CUM	2900	1370.85	3975465

7	C4-1	Reinforced concrete- Supply	CUM	70	11034.16	772391.2
8	C4-2	Reinforced concrete- Erection	CUM	70	6157.77	431043.9

Schedule-D

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	D1-2	Preparation of designs and drawings for over head equipment complete. - Erection only	KM	29	14016	406464
2	D2-2	Preparation of designs and drawings for Switching station - Erection only	Each	2	23223.25	46446.5
3	D3-2	Supply of Preparation of station working rule diagram and working instruction	Each	5	9863.11	49315.55
4	D4-1	Supply of a Guy rod assembly	Each	126	12929.97	1629176.22
5	D4-2	Erection of a Guy rod assembly	Each	126	739.59	93188.34
6	D5-1	Supply of a single bracket assembly including stay and bracket insulator	Each	1000	26575.93	26575930
7	D5-2	Erection of a single bracket assembly including stay and bracket insulator	Each	1000	1373.13	1373130
8	D6-1	Extra on D5 for supply of additional fittings on a single bracket assembly for supporting two OHES	Each	90	3926.63	353396.7
9	D6-2	Extra on D5 for Erection of additional fittings on a single bracket assembly for supporting two OHES	Each	90	253.97	22857.3
10	D7-1	Supply of single bracket assembly suitable for tramway type OHE (Regulated).	Each	20	26553.38	531067.6
11	D7-2	Erection of single bracket assembly suitable for tramway type OHE (Regulated).	Each	20	856.81	17136.2
12	D8-1	Supply of a pull off arrangement for one OHE	Each	7	15489.47	108426.29
13	D8-2	Erection of a pull off arrangement for one OHE	Each	7	915.42	6407.94
14	D9-1	Extra for Each additional equipment pulled - Supply only	Each	7	4935.77	34550.39
15	D9-2	Extra for Each additional equipment pulled - Erection only	Each	7	552.6	3868.2
16	D10-1	Supply of a pull - off arrangement for Regulated Tramway type OHE.	Each	2	10488.87	20977.74
17	D10-2	Erection of a pull - off arrangement for Regulated Tramway type OHE.	Each	2	859.6	1719.2
18	D11-1	Supply of mounting arrangement for span wire	Each	26	17507.75	455201.5
19	D11-2	Erection of mounting arrangement for span wire	Each	26	1191.72	30984.72
20	D12-1	Supply of span wire	Mtr	2000	800.55	1601100
21	D12-2	Erection of span wire	Mtr	2000	206.53	413060
22	D14-1	Suspension / Registration for contact wire only - Supply only	Each	13	6598.88	85785.44
23	D14-2	Suspension / Registration for contact wire only - Erection only	Each	13	9561.69	124301.97
24	D16-1	Supply of regulating equipment (3 pulley type) with counter-weight assembly for conventional OHE	Each	65	103059.24	6698850.6
25	D16-2	Erection of regulating equipment (3 pulley type) with counter-weight assembly for conventional OHE	Each	65	3770.53	245084.45
26	D17-1	Supply of regulating equipment (3 pulley type) with counter weight assembly for tramway type OHE (Regulated).	Each	2	74160.59	148321.18
27	D17-2	Erection of regulating equipment (3 pulley type) with counter weight assembly for tramway type OHE (Regulated).	Each	2	3960.32	7920.64
28	D18-1	Supply of materials for termination of Single conductor of overhead equipment or terminating wire	Each	15	9116.1	136741.5
29	D18-2	Erection of materials for termination of Single conductor of overhead equipment or terminating wire	Each	15	1356.39	20345.85
30	D19-1	Supply of materials for termination of Double conductor	Each	80	15455.64	1236451.2

31	D19-2	Erection of materials for termination of Double conductor	Each	80	968.45	77476
32	D22-1	Supply of materials for termination of tramway type OHE	Each	2	9226.03	18452.06
33	D22-2	Erection of materials for termination of tramway type OHE	Each	2	1289.41	2578.82
34	D23-1	Supply of materials/termination of 25 kV terminating wire (150 sq mm)copper cross track / along track feeder	Each	10	9192.2	91922
35	D23-2	Erection of materials/termination of 25 kV terminating wire (150 sq mm)copper cross track / along track feeder	Each	10	1356.39	13563.9
36	D24-1	Extra on item A1 for supply of additional fittings at a turnout, diamond crossing or overlap	Each	42	10702.47	449503.74
37	D24-2	Extra on item A1 for Erection of additional fittings at a turnout, diamond crossing or overlap	Each	42	1085.67	45598.14
38	D25-1	Extra on item A2 for supply of additional fittings required at a turnout/diamond crossing or over lap	Each	2	8495.95	16991.9
39	D25-2	Extra on item A2 for Erection of additional fittings required at a turnout/diamond crossing or over lap	Each	2	1015.9	2031.8
40	D26-1	Supply of Porcelain cut-in-insulator	Each	60	6892.04	413522.4
41	D26-2	Erection of Porcelain cut-in-insulator	Each	60	734.01	44040.6
42	D27-1	Supply of a Porcelain suspension insulator	Each	50	6725.73	336286.5
43	D27-2	Erection of a Porcelain suspension insulator	Each	50	678.19	33909.5
44	D28-1	Supply of 25kV Post insulator	Each	35	8022.39	280783.65
45	D28-2	Erection of 25kV Post insulator	Each	35	636.33	22271.55
46	D29-1	Supply of a section insulator assembly	Each	20	48218.9	964378
47	D29-2	Erection of a section insulator assembly	Each	20	4088.7	81774
48	D30-1	Supply of a section insulator assembly for tramway type OHE(Regulated)	Each	1	44836.31	44836.31
49	D30-2	Erection of a section insulator assembly for tramway type OHE(Regulated)	Each	1	3497.02	3497.02
50	D31-2	Erection of PTFE Type short neutral section assembly	Each	2	4493.38	8986.76
51	D33-1	Supply of 25 kV double pole Isolator	Each	18	86072.97	1549313.46
52	D33-2	Erection of 25 kV double pole Isolator	Each	18	7867.61	141616.98
53	D34-1	Provision of interlocking device on 25kV Single/Double Pole isolator with or without earth contact aasembly.- Supply only	Each	8	3374.14	26993.12
54	D34-2	Provision of interlocking device on 25kV Single/Double Pole isolator with or without earth contact aasembly.- Erection only	Each	8	516.32	4130.56
55	D35-1	Supply of a copper jumper	Each	30	4022.47	120674.1
56	D35-2	Erection of a copper jumper	Each	30	248.39	7451.7
57	D37-1	Supply of a structure bond / Interlock bond	Each	900	687.79	619011
58	D37-2	Erection of a structure bond / Interlock bond	Each	900	273.51	246159
59	D38-1	Supply of longitudinal bond / In-run bond	Each	140	304.43	42620.2
60	D38-2	Erection of longitudinal bond / In-run bond	Each	140	343.28	48059.2
61	D39-1	Supply of transverse and special bond	Each	125	628.6	78575
62	D39-2	Erection of transverse and special bond	Each	125	440.97	55121.25
63	D40-1	Supply of a single earth electrode	Each	40	2956.95	118278
64	D40-2	Erection of a single earth electrode	Each	40	1035.43	41417.2
65	D41-1	Supply of earth bus	Mtr	200	155.04	31008
66	D41-2	Erection of earth bus	Mtr	200	72.56	14512
67	D42-1	Supply of copper strips for equipment earthing	Mtr	30	498.93	14967.9
68	D42-2	Erection of copper strips for equipment earthing	Mtr	30	114.43	3432.9
69	D43-1	Supply of 8 SWG GI wire for earthing	Mtr	100	33.83	3383
70	D43-2	Erection of 8 SWG GI wire for earthing	Mtr	100	22.33	2233
71	D44-1	Supply of Vacuum type 25KV Interruptor	Each	6	393990.67	2363944.02
72	D44-2	Erection of Vacuum type 25KV Interruptor	Each	6	6335.39	38012.34

73	D45-1	Supply of 25 kV potential transformer	Each	4	117409.9	469639.6
74	D45-2	Erection of 25 kV potential transformer	Each	4	1694.09	6776.36
75	D46-1	Supply of 42 kV lightning arrestor	Each	6	52148.35	312890.1
76	D46-2	Erection of 42 kV lightning arrestor	Each	6	1200.1	7200.6
77	D50-1	Supply & Installation of cables control and Indication - Supply only	Mtr	400	295.98	118392
78	D50-2	Supply & Installation of cables control and Indication - Erection only	Mtr	400	16.75	6700
79	D51-1	Supply & Installation of cables Heater supply- Supply only	Mtr	150	90.2	13530
80	D51-2	Supply & Installation of cables Heater supply- Erection only	Mtr	150	16.75	2512.5
81	D52-1	Supply & Installation of cables Catenary indication- Supply only	Mtr	60	115.57	6934.2
82	D52-2	Supply & Installation of cables Catenary indication- Erection only	Mtr	60	16.75	1005
83	D54-1	Supply & Installation of cables 110 V.D.C supply - Supply only	Mtr	60	115.57	6934.2
84	D54-2	Supply & Installation of cables 110 V.D.C supply - Erection only	Mtr	60	22.33	1339.8
85	D55-1	Supply and laying of 70 sq mm XLPE insulated PVC sheathed Aluminium cable - Supply only	Mtr	4000	338.26	1353040
86	D55-2	Supply and laying of 70 sq mm XLPE insulated PVC sheathed Aluminium cable - Erection only	Mtr	4000	279.09	1116360
87	D56-2	Cable trench cutting -Erection only	Mtr	5500	346.07	1903385
88	D57-1	Supply of Aluminium bus bar 50mm/39mm	Mtr	180	566.58	101984.4
89	D57-2	Erection of Aluminium bus bar 50mm/39mm	Mtr	180	61.4	11052
90	D58-1	Supply of Solid copper bus bar 18 mm	Mtr	120	1426.33	171159.6
91	D58-2	Erection of Solid copper bus bar 18 mm	Mtr	120	94.89	11386.8
92	D59-1	Supply of Aluminium bus terminal	Each	20	1471.43	29428.6
93	D59-2	Erection of Aluminium bus terminal	Each	20	421.43	8428.6
94	D60-1	Supply of Aluminium bus splice	Each	10	1730.76	17307.6
95	D60-2	Erection of Aluminium bus splice	Each	10	421.43	4214.3
96	D61-1	Supply of Aluminium bus tee connector	Each	10	1773.04	17730.4
97	D61-2	Erection of Aluminium bus tee connector	Each	10	421.43	4214.3
98	D62-1	Supply of Aluminium tap connector	Each	10	3174	31740
99	D62-2	Erection of Aluminium tap connector	Each	10	36.28	362.8
100	D63-1	Supply of Aluminium terminal connector bolted type	Each	10	1496.8	14968
101	D63-2	Erection of Aluminium terminal connector bolted type	Each	10	477.25	4772.5
102	D64-1	Supply of solid copper bus bar connectors-Bus terminal (6310)	Each	24	2156.4	51753.6
103	D64-2	Erection of solid copper bus bar connectors-Bus terminal (6310)	Each	24	421.43	10114.32
104	D65-1	Supply of solid copper bus bar connectors-Bus splice (6320)	Each	14	2218.42	31057.88
105	D65-2	Erection of solid copper bus bar connectors-Bus splice (6320)	Each	14	619.58	8674.12
106	D66-1	Supply of solid copper bus bar connectors-Bus tee joint	Each	7	2094.39	14660.73
107	D66-2	Erection of solid copper bus bar connectors-Bus tee joint	Each	7	421.43	2950.01
108	D67-1	Supply of solid copper bus bar connectors-Bus terminating tee	Each	7	5161.28	36128.96
109	D67-2	Erection of solid copper bus bar connectors-Bus terminating tee	Each	7	36.28	253.96
110	D68-1	Supply, Erection, oil filtration, testing and commissioning of 10 kVA capacity LT supply transformers -Supply only	Each	3	110120.41	330361.23
111	D68-2	Supply, Erection, oil filtration, testing and commissioning of 10 kVA capacity LT supply transformers - Erection only	Each	3	8609.99	25829.97
112	D69-1	LT control board for AT location as per RDSO spec. no.TI/SPC/PSI/CLS/0020 with A & C slip No.4.(7/2010) or latest - Supply only	Each	3	81889.83	245669.49
113	D69-2	LT control board for AT location as per RDSO spec. no.TI/SPC/PSI/CLS/0020 with A & C slip No.4.(7/2010) or latest - Erection only	Each	3	2511.83	7535.49

114	D70-1	Supply of 25 kV drop out fuse switch	Each	12	20715.58	248586.96
115	D70-2	Erection of 25 kV drop out fuse switch	Each	12	2029	24348
116	D71-1	Supply of Protective Screen for FOB/ROB	Each	18	26209.48	471770.64
117	D71-2	Erection of Protective Screen for FOB/ROB	Each	18	2031.79	36572.22
118	D72-1	Supply of anti-climbing device,etc LT. Supply transformer stations	Each	14	1691.3	23678.2
119	D72-2	Erection of anti-climbing device,etc LT. Supply transformer stations	Each	14	312.58	4376.12
120	D73-1	Supply of caution boards	LS	4	39463.62	157854.48
121	D73-2	Fixing of caution boards	LS	4	2919.3	11677.2
122	D74-2	Modification to erected equipment Transfer of equipment from one mast or support to another-Erection only	Each	370	2436.47	901493.9
123	D75-2	Provision of an additional bracket assembly / assemblies on a mast or support - Erection only	Each	105	2160.17	226817.85
124	D76-2	Dismantling of overhead equipment - Erection only	KMS	12	50057.95	600695.4
125	D77-2	Dismantling of feeder / return conductor.- Erection only	KMS	1	16725.99	16725.99
126	D78-1	Splicing and extension of an anchored over head equipment - Supply only	Each	12	1953.45	23441.4
127	D78-2	Splicing and extension of an anchored over head equipment - Erection only	Each	12	8400.67	100808.04
128	D79-1	Dismantling of a section insulator - Supply only	Each	7	3912.54	27387.78
129	D79-2	Dismantling of a section insulator - Erection only	Each	7	5760.46	40323.22
130	D80-2	Slewing of equipment - Erection only	span	145	1942.48	281659.6
131	D81-2	Dismantling of an isolator. - Erection only	Each	10	1292.2	12922
132	D82-2	Dismantling of pin/pedestal insulators - Erection only	Each	10	424.22	4242.2
133	D83-2	Dismantlement of OHE mast / structure by cutting - Erection only	Each	375	4875.74	1828402.5
134	D84-2	Dismantlement of OHE mast structure of breaking the foundation -Erection only	Each	225	6954.97	1564868.25
135	D85-2	Dismantling of guy rod - Erection only	Each	60	3148.16	188889.6
136	D86-2	Erection of Temp, mast including cantilever assembly transfer of OHE to New mast and releasing the temp mast under power / non power block	Each	50	15297.04	764852
137	D87-2	Releasing of portal Boom under power/non power block - Erection only	Each	30	20839.8	625194
138	D88-1	Splicing and extension of RC wire/feeder wire- Supply only	Each	4	2652.52	10610.08
139	D88-2	Splicing and extension of RC wire/feeder wire- Erection only	Each	4	7086.15	28344.6
140	D89-2	Releasing of plinth/ pole mounted AT along with drop out fuse,fencing panels and Las etc.- Erection only	Each	8	7524.32	60194.56
141	D91-1	Spreading of 20 mm Ballast in the SSP/SP Switch Yard.- Supply only	Cum	40	1045.79	41831.6
142	D91-2	Spreading of 20 mm Ballast in the SSP/SP Switch Yard.- Erection only	Cum	40	80.94	3237.6
143	D92-1	Supply of lead acid batteries 110 V 40 AH as per RDSO specification	Each	1	203660.46	203660.46
144	D92-2	Erection of lead acid batteries 110 V 40 AH as per RDSO specification	Each	1	10080.81	10080.81
145	D93-1	Supply of Battery chargers	Each	2	82340.84	164681.68
146	D93-2	Erection of Battery chargers	Each	2	2070.86	4141.72
147	D94-1	Supply of fencing panels at switching stations	Mtr	50	3557.36	177868
148	D94-2	Erection of fencing panels at switching stations	Mtr	50	83.73	4186.5
149	D95-1	Supply of fencing uprights	MT	0.7	80815.85	56571.1
150	D95-2	Erection of fencing uprights	MT	0.7	8219.26	5753.48
151	D96-1	Supply of anti-climbing device at switching stations	Mtr	50	403.09	20154.5
152	D96-2	Erection of anti-climbing device at switching stations	Mtr	50	8.37	418.5
153	D97-2	Releasing of SP/SSP Equipments-Erection only	LS	1	20764.45	20764.45

154	D98-2	Cable trench cover-Supply and Erection	Sqm	6.5	2701.61	17560.46
155	D99-1	Supply of Terminal boards in control room	Each	1	14350.66	14350.66
156	D99-2	Erection of Terminal boards in control room	Each	1	1225.21	1225.21

Schedule-E

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	E1-1	Supply of Jointless Hard Drawn Grooved Copper Contact Wire, 107 sqmm made out of continous cast copper wire rod as per RDSO 2019 specification No. ETI/OHE/76(6/97) with A&C slips no 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10	KM	39	857495.83	33442337.37

Schedule-F

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	F1-1	Cadmium Copper Catenary Wire, 19/2.10 mm 65 sq mm for overhead Railway Traction as per RDSO 2019 specification No.ETI/OHE/50(6/97) with A&C slip Nos. 1, 2, 3, 4 and 5	KM	42.5	547955.71	23288117.67

Schedule-G

Sl No	Item Code	Item Name	Unit	Quantity	Final Rate (INR)	Total (INR)
1	G1-2	Transporting of OHE Materials	MT/KM	3000	79.38	238140
2	G2-1	Supply of Schematic diagram and shock treatment board	SET	10	907.15	9071.5
3	G2-2	Erection of Schematic diagram and shock treatment board	SET	10	56.7	567
4	G3-2	Manning Arrangements	Day	365	1076.25	392831.25
5	G4-1	Supply of 5 kVA capacity LT supply transformers	EACH	7	56331.38	394319.66
6	G4-2	Erection of oil filtration, testing and commissioning of 5 kVA capacity LT supply transformers	Each	7	8609.99	60269.93
7	G5-1	Supply of PTFE Type short neutral section assembly	EACH	1	1100545.7	1100545.7
8	G6-1	Fabrication and supply of heavy duty emergency OHE mast made of MS Raw materials complete as per SCR/SC Sketch No. TRD/SC/SO14289(Section weight Approx weight (1 set 650 kgs) with enclosed Drawing Accepted Offer . As above, Make/Brand OEM.	EACH	1	114205.47	114205.47
9	G7-1	Supply of Disconnector Assembly suitable for 42 KV Surge Arrestor as per RDSO specification for Lightning Arrestor Assembly No TI/SPC/PSI/MOGTLA/0101(02/2015) with complete set and suitable hardwares for fixing.	EACH	6	4780.55	28683.3
10	G8-1	Supply of Remote Station Equipments at remote station including software & hardware modification/alteration	Each	1	996689.06	996689.06
11	G8-2	Erection, Testing & Commissioning of Remote Station Equipments at remote station including software & hardware modification/alteration	EACH	1	62552.07	62552.07
12	G9-1	Supply of safety equipment at switching station	EACH	1	85099.23	85099.23
13	G9-2	Erection of safety equipment at switching station	EACH	1	5558.82	5558.82
14	G10-1	Supply of sigma boards	Pair	4	1220.11	4880.44
15	G10-2	Fixing of sigma boards	Pair	4	100	400

16	G11-1	Supply of neutral section warning board	SET	1	10796.49	10796.49
17	G11-2	Erection of neutral section warning board	SET	1	2677.08	2677.08
18	G12-1	Supply & Erection of MS flat 75x8mm to a depth of 500mm below existing ground level duly bolted with buried rail on either sides and connecting to nearest traction rail with tin plated copper bush and M12 bolts (Stainless steel) as per RDSO drawing.	MTR	130	1607.83	209017.9
19	G13-2	Erection of 13 mtr long buried rail including transportation of rail and excavation of buried rail pit of 0.75 mtr wide and 1mtr depth.	No	1	24355.56	24355.56
20	G14-1	Supply of control and distribution panel for colour light signalling supply in 5 kV AC traction system as per RDSO technical specifications No. TI/SPC/PSI/CLS/0020 (7/10) with A&C slips No.1 to 4 or latest,connections as required.	EACH	10	27590.91	275909.1
21	G14-2	Erection, Testing & Commissioning of control and distribution panel for colour light signalling supply in 5 kV AC traction system as per RDSO technical specifications No. TI/SPC/PSI/CLS/0020 (7/10) with A&C slips No.1 to 4 or latest,connections as required.	EACH	10	2300.01	23000.1
22	G15-1	Supply of 2*150 sq mm XLPE insulated PVC sheathed Aluminium cable	MTR	1500	823.05	1234575
23	G15-2	Laying of 2*150 sq mm XLPE insulated PVC sheathed Aluminium cable	MTR	1500	254.84	382260
24	G16-1	Supply of materials for Electrification of SP building & yard lighting	LS	1	70619.72	70619.72
25	G16-2	Labour for Electrification of SP building & yard lighting	LS	1	11050.15	11050.15
26	G17-1	Supply of Motor Bike 150 CC or more as per relevant special conditions	Month	28	9626.58	269544.24

Annexure – C
MILESTONE DATES

1. Milestone for Commissioning of block section:

Block section	**Likely month & year of commissioning of section**
YPR-LOGH	Feb-2024 (FY-2023-24)
LOGH-HEB	Feb-2024 (FY-2023-24)
HEB-BAND	Linked to completion of Corridor-2 BSRP. June-2024 (FY-2024-25)

2. Access to site for OHE work:

Block section	**Likely month & year of handing over of formation**
YPR-LOGH	Dec-2023
LOGH-HEB	Dec-2023
HEB-BAND	Connected with Commissioning of Corridor-2 BSRP

The site shall be handed over progressively before this handing over date.