



इरकॉन इंटरनेशनल लिमिटेड

नवरत्न कम्पनी
(भारत सरकार का उपक्रम)

IRCON INTERNATIONAL LIMITED

NAVRATNA COMPANY
(A Govt. of India Undertaking)



No. : IRCON/R-1400028/MCL PMC/Electrical/LOA/376

Date: 18.02.2025

To,
M/s Jagdish Singh Enterprises,
At & P.O.-Bihat
Tola Majhaliban, Dist-Begusarai
Bihar-851135
Tel.: 91 - 9771456501
Email: js.enterprises2865@gmail.com

Sub. : Design, Supply, Erection, Testing & Commissioning of 25 kV, 50 Hz, Single Phase, OHE Traction System, Switching Station, SCADA, Yard Lighting and all Other Associated Work in Connection With Development of Rail Infrastructure for 02 Nos RLS at Ananta OCP of Jagannath Area MCL, Talcher in State of Odisha over East Coast Railway- **Letter of Acceptance.**

Kind Attn: Shri. Arun Kumar, Partner of M/s Jagdish Singh Enterprises

Ref.: 1. e-NIT No. IRCON/R-1400028/MCL/Tender/2024/5, dated 14.12.2024.
2. Your offer Dated 03.01.2025 and Opening of Financial Bid on dated 04.02.2025

Dear Sir,

In reference to the above, it is to inform that the competent authority of Ircon International Limited has accepted your offer at the original quoted rate of 3.4% above on all the schedules with the total amount of Rs.22,05,93,630.30 (Rupees Twenty Two Cores Five Lakhs Ninety Three Thousand Six Hundred Thirty and thirty paise Only) including all taxes, duties, etc & GST@18%. (BOQ attached Annexure-A) for the work of "Design, Supply, Erection, Testing & Commissioning of 25 kV, 50 Hz, Single Phase, OHE Traction System, Switching Station, SCADA, Yard Lighting and all Other Associated Work in Connection With Development of Rail Infrastructure for 02 Nos RLS at Ananta OCP of Jagannath Area MCL, Talcher in State of Odisha over East Coast Railway" without any change in the tender conditions in its capacity as a Power of Attorney Holder, acting for and on behalf of M/s Mahanadi Coalfields Limited (MCL). The detail bill of quantity enclosed herewith as Annexure- A. The important Terms and Conditions of the above tender is mentioned in brief below, however the clauses as mentioned in the tender document shall be final and binding.

1. The completion period of the works is 06 months (including monsoon period) from the date of issue of this Letter of Award as per clause no 45 of SCC.
2. It is requested to submit a Performance Security for an amount of ₹ 1,10,29,690.00 (Rupees One Cores Ten Lakhs Twenty Nine Thousand Six Hundred Ninety Only) in the prescribed form as per Clause No 31.1 of SCC in favour of MAHANADI COALFIELDS LTD Acting Through General Manager IRCON International Ltd within 21 (twenty) days of issue of this letter.

Project Office: MCL PMC Project, FCI Road, Ghantapada, Talcher, District Angul, Odisha

E-mail: ircon.r1400028@ircon.org

Registered Office: C-4, District Centre, Babel, New Bhubaneswar-751017, INDIA

Tel.: +91-11-26530266, FAX: +91-11-26854000, 26522000, E-mail: info@ircon.org, Web: www.ircon.org

CIN - L45203DL1976GOI008171



3. In term of Clause No.35 & 36 of Special Conditions of Contract, before commencement of work, you are requested to obtain insurance cover as per details provided in the clauses.
4. Retention money/Security will be recovered from account/ final bill as per the Clause No. 31.2 of Special Conditions of Contract.
5. This letter will constitute a legal and binding contract between Ircon International Ltd and M/s Jagdish Singh Enterprises till such time the Contract Agreement is signed. You will enter into and execute the Contract Agreement within 28 Days from the date of issue of this letter as per SCC clause no 32 on the stamp paper of the requisite value as per prevailing laws to be arranged at your own cost.
6. All other terms and conditions shall be as per Tender documents, which shall form an integral part of this contract and shall be binding on you.
7. This letter is being issued to you in duplicate as per Clause No 23.2 of Instructions to Tenderer of Tender Document, one copy of which may please be returned within 07 (seven) days of the issue of the LOA. Duplicate copy shall be duly stamped and signed and returned as a token of your unconditional acceptance.
8. You are requested to contact Sh. Hemanta Kumar Sahoo, SE/Elect, MCL PMC PROJECT, Vill-Chalagarh, Post- Ghantapada, PS-Colliery, Talcher, Odisha for further instructions.

Thanking You.

For and on behalf of
(Mahanadi Coalfields limited)

 18/2/2025
Himanshu Kumar)
General Manager/Civil/PH
IRCON INTERNATIONAL LIMITED,
MCL PMC PROJECT, TALCHER
Odisha

Encl-Annexure-A (Bill of Quantities of 17 pages)

Copy to:

- i. General Manager/Jagannath Area, Mahanadi Coalfields Limited, P.O.: Balanda, Talcher, Dist. Angul, Odisha-759116-for information please.
- ii. General Manager / Railway Siding, Mahanadi Coalfields Limited, Jagruti Vihar, Burla, Sambalpur, Odisha 768020 for information please.
- iii. Executive Director (Projects), Ircon International Limited, C-4, District Center, Saket, Delhi-110017- for kind information.
- iv. CGM/Elect./CO/New Delhi, Ircon International Limited, C-4, District Center, Saket, Delhi-110017- for kind information.
- v. DGM/Fin./Bhubaneswar, Ircon International Ltd Talcher, ODISHA

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER				ANNEXURE-"A"
BOQ OF RATE & QUANTITIES				
SUMMARY				
S.N.	Sch. No.	SOR/Non-SOR	Description of Schedule	(Supply+Erection) Gross Amount (Exclusive of GST)
1	16000	Non-SOR	RE - General	₹69,40,742.00
2	19000	Non-SOR	OHE - Ferrous other than steel structures and SPS	₹2,20,98,384.85
3	20000	Non-SOR	OHE - Non Ferrous "A"	₹4,13,30,163.86
4	21000	Non-SOR	OHE - Non Ferrous "B"	₹79,63,232.17
5	29000	Non-SOR	SCADA	₹30,10,687.00
6	30000A	Non-SOR	Galvanised Steel Structures	₹3,42,91,425.42
7	30000B	Non-SOR	Concrete for Foundation	₹2,26,52,589.81
8	30000C	Non-SOR	Miscellaneous Common Items of OHE/TSS	₹1,07,77,310.48
9	40000	Non-SOR	General Electrification of building, Pathway & Yard Lighting	₹3,17,32,132.66
Total Amount (A) =				₹18,07,96,668.25
Add @3.4% on Above on "A" (B)=				₹61,47,086.72
Sub Total Amount (C=A+B)				₹18,69,43,754.97
GST@18% on Above"C" (D) =				₹3,36,49,875.33
Gross Amount Including) including all taxes, duties, etc & GST@18% (E=C+D) =				₹22,05,93,630.30



RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER

BILL OF QUANTITIES

Schedule 16000: RE- General

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		8=5*6	9=6*7	
1	2	3	4	5	6	7	8=5*6	9=6*7	10=8+9
16001	OHE-1	Preparation and submission of designs and drawings for Overhead Equipment, Switching Station, Sectioning diagram, Power supply diagram, Schematic diagram of Switching Stations, Traction Working Rule Diagram and Instructions etc. required for commissioning of OHE.	TKM	₹2,323.98	₹34,025.51	16	₹37,183.72	₹5,44,408.11	₹5,81,591.83
16002	OHE-2	Supply and Erection of large Span wire (130 sq. mm) including its fittings with insulators.							
	(a)	With Porcelain Insulators 1050mm CD	Mtr	₹1,023.58	₹84.52	650	₹6,65,328.54	₹54,937.52	₹7,20,266.07
	(b)	With Composite Insulators 1050mm CD	Mtr	₹966.72	₹84.52	0	₹0.00	₹0.00	₹0.00
16003	OHE-3	Supply and Erection of materials for termination of single conductor of overhead equipment or a terminating wire.							
	(a)	With Porcelain Insulators 1050mm CD	Each	₹13,698.19	₹1,268.87	12	₹1,64,378.32	₹15,226.47	₹1,79,604.79
	(b)	With Composite Insulators 1050mm CD	Each	₹10,976.15	₹1,268.87	0	₹0.00	₹0.00	₹0.00
16004	OHE-4	Supply and Erection of materials for Termination of all aluminium 25 KV feeder conductor single (spider) including feeder wire.							
	(a)	With Porcelain Insulators 1050mm CD	Set	₹682.39	₹278.48	1300	₹8,87,104.73	₹3,62,024.20	₹12,49,128.92
	(b)	With Composite Insulators 1050mm CD	Set	₹640.54	₹278.48	0	₹0.00	₹0.00	₹0.00
16005	OHE-5	Supply and Erection of material for Termination of copper cross feeders with gantries including cross feeder wire.							
	(a)	With Porcelain Insulators 1050mm CD	Set	₹58,037.34	₹1,487.76	2	₹1,16,074.67	₹2,973.51	₹1,19,050.18
	(b)	With Composite Insulators 1050mm CD	Set	₹52,591.10	₹1,487.76	0	₹0.00	₹0.00	₹0.00
	(c)	Extra Erection under Power Block	Set	₹0.00	₹1,487.76	2	₹0.00	₹2,973.51	₹2,973.51
16006	OHE-6	Supply and Erection of Terminal Boards in control cubicles.	Each	₹13,964.28	₹633.89	1	₹13,964.28	₹633.89	₹14,598.15
16007	OHE-7	Supply and Erection of iron clad 240V AC and 110V D.C. board with fuse box in control cubicles.	Set	₹9,257.30	₹289.32	1	₹9,257.30	₹289.32	₹9,546.62
16008	OHE-8(a)	Supply, Erection, Testing and Commissioning of low maintenance Lead Acid Battery set 40 AH, 110 volts DC as per latest RDSO specifications including filling up of electrolyte and initial charging /discharging etc as required.	Set	₹93,995.76	₹6,811.39	1	₹93,995.76	₹6,811.39	₹1,00,807.15
	OHE-8(b)	Supply, Erection, Testing and Commissioning of battery charger suitable for 110V, 40 AH low maintenance lead Acid battery set as per latest RDSO specifications including all accessories.	Each	₹91,512.99	₹928.63	1	₹91,512.99	₹928.63	₹92,441.61
16011	OHE-10	Modification to existing Overhead Equipment	Mtr	₹0.00	₹50.93	1500	₹0.00	₹76,392.42	₹76,392.42
16011A	OHE-10(a)	Extra for modification to existing Overhead Equipment under power block	Mtr	₹0.00	₹50.93	1500	₹0.00	₹76,392.42	₹76,392.42
16012	OHE-11(a)	Manning of switching station i.e. SP/SSP and TSS	Man-month	₹0.00	₹27,241.21	10	₹0.00	₹2,72,412.10	₹2,72,412.10
16012 (A)	OHE-11(b)	Manning of anti-theft transformer	Man-month	₹0.00	₹25,761.04	10	₹0.00	₹2,57,610.39	₹2,57,610.39
16013	OHE-12 (a)	Electrification of switching station (SP/SSP) building as per specification.	Each	₹0.00	₹51,038.80	1	₹0.00	₹51,038.80	₹51,038.80
16013 (A)	OHE-12 (b)	Supply & Erection of Earthing arrangement at switching station.	Job	₹24,311.69	₹11,570.47		₹24,311.69	₹11,570.47	₹35,882.16
16014	OHE-13	Loading/Unloading, transportation and handing over of all type of materials etc. (other than contractor material)	Metric Tonne/KM	₹0.00			₹0.00	₹1,33,280.38	₹1,33,280.38



Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
16015	OHE-14	Hiring charges of SUV type vehicle i.e Innova & Scorpio etc, for inspection/supervision of all electrical works by Railway officials & Client/Controlling Official/Supervisory official at site.	KM	₹21.69	₹0.00	96000	₹20,82,293.46	₹0.00	₹20,82,293.46
16016	OHE-15	Cost of EIG approval of OHE & SSP	TKM	₹0.00	₹15,877.63	16	₹0.00	₹2,54,042.00	₹2,54,042.00
16017	OHE-15 (b)	Inspection & Checking by railway officer at various level	Spell	₹0.00	₹18,039.63	35	₹0.00	₹6,31,387.00	₹6,31,387.00
	A	Total Amount (Exclusive of GST) =					₹41,85,405.47	₹27,55,336.53	₹69,40,742.00
	B	Add @3.4% on Above					₹1,42,303.79	₹93,681.44	₹2,35,985.23
	A+B	Gross Amount (Exclusive of GST) =					₹43,27,709.25	₹28,49,017.97	₹71,76,727.23



[Signature]
GM/civil
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER

BILL OF QUANTITIES

Schedule 19000: OHE - Ferrous other than steel structures and SPS

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
19001	OHE-16	Supply and Erection of a guy rod assembly	Each	₹9,741.20	₹1,526.76	110	₹ 10,71,531.95	₹ 1,67,944.12	₹12,39,476.07
	(a)	Extra on erection under Power Block	Each	₹0.00	₹1,526.76	20	₹ 0.00	₹ 30,535.29	₹30,535.29
19002	OHE-17	Supply and Erection of protective screen on FOBs/ROBs	Sq.m	₹5,043.88	₹550.46	32	₹ 1,61,404.13	₹ 17,614.68	₹1,79,018.82
19003	OHE-18	Supply and Erection of bracket assembly with insulators							
	(a)	With Porcelain stay & bracket Insulators 1050mm CD	Each	₹23,258.07	₹1,315.47	600	₹ 1,39,54,839.71	₹ 7,89,279.93	₹1,47,44,119.64
	(b)	With Composite stay & bracket Insulators 1050mm CD	Each	₹20,813.91	₹1,315.47	0	₹ 0.00	₹ 0.00	₹0.00
	(c)	Extra on erection under Power Block	Each	₹0.00	₹1,315.47	100	₹ 0.00	₹ 1,31,546.66	₹1,31,546.66
19004	OHE-19	Supply and Erection of regulating equipment (3-pulley type) with counter weight assembly for conventional OHE	Each	₹76,755.80	₹5,689.88	54	₹ 41,44,813.36	₹ 3,07,253.54	₹44,52,066.90
	OHE-19(a)	Extra on erection under Power Block	Each	₹0.00	₹5,689.88	5	₹ 0.00	₹ 28,449.40	₹28,449.40
19005	OHE-20	Supply and Erection of material for termination of double Overhead Equipment conductor							
	(a)	With Porcelain Insulators 1050mm CD	Each	₹16,305.43	₹1,435.74	40	₹ 6,52,217.25	₹ 57,429.76	₹7,09,647.01
	(b)	With Composite Insulators 1050mm CD	Each	₹13,860.21	₹1,435.74	0	₹ 0.00	₹ 0.00	₹0.00
	(c)	Extra on erection under Power Block	Each	₹0.00	₹1,435.74	4	₹ 0.00	₹ 5,742.98	₹5,742.98
19006	OHE-21	Supply and Erection of anti-creep with galvanized steel wire							
	(a)	With Porcelain Insulators 1050mm CD	Each	₹38,265.24	₹4,036.34	0	₹ 0.00	₹ 0.00	₹0.00
	(b)	Extra on provision of extra span in item (a).	Each	₹7,653.26	₹807.27	0	₹ 0.00	₹ 0.00	₹0.00
	(c)	With Composite Insulators 1050mm CD	Each	₹33,375.87	₹4,036.34	0	₹ 0.00	₹ 0.00	₹0.00
	(d)	Extra on provision of extra span in item (c).	Each	₹6,675.82	₹807.27	0	₹ 0.00	₹ 0.00	₹0.00
	(e)	Extra on erection under Power Block	Each	₹0.00	₹4,036.34	0	₹ 0.00	₹ 0.00	₹0.00
19007	OHE-22	Supply and Erection of a structure bond/longitudinal bond/ transverse and special bond	TKM	₹27,311.62	₹8,799.76	16	₹ 4,36,985.99	₹ 1,40,796.10	₹5,77,782.08
	A	Total Amount (Exclusive of GST) =					₹2,04,21,792.39	₹16,76,592.46	₹2,20,98,384.85
	B	Add @3.4% Above					₹6,94,340.94	₹57,004.14	₹7,51,345.08
	A+B	Gross Amount (Exclusive of GST) =					₹2,11,16,133.33	₹17,33,596.61	₹2,28,49,729.93



Signature
GMIT/aiw
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCT.PMC PROJECT, TALCHER

BILL OF QUANTITIES

Schedule 20000: OHE - Non Ferrous Part 'A'

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
20001	OHE-23(a)	Supply and Erection of Over Head Equipment i.e. contact & catenary wire (excluding cost of supply of contact & catenary wires), jumper wire, dropper wire, contact/catenary clips, fasteners and all other material required at turn out/ overlaps/ diamond crossings etc. Final checking of OHE and adjustment inspection to be done by tower wagon for commissioning of conventional OHE.	TKM	₹0.00	₹67,371.61	16	₹0.00	₹10,77,945.74	₹10,77,945.74
	OHE-23(a)(i)	Extra on erection under Power Block	TKM	₹0.00	₹33,685.26	5	₹0.00	₹1,68,426.31	₹1,68,426.31
	OHE-23(a)(ii)	Extra on manual erection for catenary/contact wire.	TKM	₹0.00	₹16,842.09	16	₹0.00	₹2,69,473.43	₹2,69,473.43
20002	OHE-23(b)	Supply of contact wire (HDGCC 107/150 Sq.mm) only	MT	₹10,30,954.53	₹0.00	19	₹1,95,88,136.04	₹0.00	₹1,95,88,136.04
20003	OHE-23(c)	Supply of cadmium copper catenary wire (65 Sq. mm) only	MT	₹10,30,954.53	₹0.00	16	₹1,54,64,317.93	₹0.00	₹1,54,64,317.93
20004	OHE-23(D)	Rent of Tower Car charges for OHE checking (Span, Bracket, SL, Turnout & as required for commissioning)	Span	₹0.00	₹7,936.44	600	₹0.00	₹47,61,864.41	₹47,61,864.41
	A	Total Amount (Exclusive of GST) =					₹3,50,52,453.97	₹62,77,709.89	₹4,13,30,163.86
	B	Add 3.4% on above					₹11,91,783.44	₹2,13,442.14	₹14,05,225.57
	A+B	Gross Amount (Exclusive of GST) =					₹3,62,44,237.41	₹64,91,152.03	₹4,27,35,389.43



Signature
GM/Civil
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER									
BILL OF QUANTITIES									
Schedule 21000: OHE - Non Ferrous Part 'B'									
Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
21001	OHE-24	Supply and Erection of anti-creep with cadmium copper catenary wire:							
	(a)	With Porcelain Insulators 1050mm CD	Each	₹88,430.44	₹6,384.46	16	₹14,14,886.97	₹1,02,151.29	₹15,17,038.26
	(b)	With Composite Insulators 1050mm CD	Each	₹84,712.71	₹6,384.46	0	₹0.00	₹0.00	₹0.00
	(c)	Extra on erection under Power Block	Each	₹0.00	₹6,384.46	4	₹0.00	₹25,537.82	₹25,537.82
21002	OHE-25	Supply and erection of section insulator assembly and associated fittings & fasteners for OHE with Bar Insulator:							
	(a)	With Porcelain Insulators 1050mm CD and Bar Insulator	Each	₹1,02,743.42	₹6,821.14	22	₹22,60,355.29	₹1,50,065.04	₹24,10,420.33
	(b)	With Porcelain Insulators 1050mm CD and Bar Insulator	Each	₹1,00,885.09	₹6,821.14	0	₹0.00	₹0.00	₹0.00
	(c)	Extra on erection under Power Block	Each	₹0.00	₹6,821.14	6	₹0.00	₹40,926.83	₹40,926.83
21003	OHE-26	Supply and Erection of PTFE type short neutral section assembly as per latest RDSO specification.	Each	₹12,12,501.99	₹8,833.35	0	₹0.00	₹0.00	₹0.00
21006	OHE-29	Supply and Erection of all types of copper jumpers	Each	₹9,221.90	₹514.70	100	₹9,22,189.78	₹51,470.07	₹9,73,659.85
	OHE-29(a)	Extra on erection under Power Block	Each	₹0.00	₹514.70	5	₹0.00	₹2,573.50	₹2,573.50
21008	OHE-31	Supply of materials and erection of a large copper jumper (160sqmm) between aluminium/Copper busbar and OHE, cross feeder to OHE etc. with all associated fittings	Each	₹11,868.83	₹514.70	100	₹11,86,883.46	₹51,470.07	₹12,38,353.53
21009	OHE-32 (a)	Supply and Erection of solid copper busbar 18 mm dia including all connectors, bus splice etc.	Mtr	₹4,592.17	₹252.47	300	₹13,77,651.75	₹75,742.27	₹14,53,394.02
21010	OHE-32(b)	Supply and erection of Aluminium Bus Bar 36mmx28mm size including all connectors, bus splice etc	Mtr	₹1,122.29	₹69.35	100	₹1,12,229.26	₹6,934.91	₹1,19,164.18
21011	OHE-34	Dismantling of traction structure, portals, TTC and associated SPS by cutting	MT	₹0.00	₹1,925.52	25	₹0.00	₹48,138.06	₹48,138.06
	OHE-34 (a)	Extra for Dismantling of traction structure, portals, TTC and associated SPS by cutting under Power Block	MT	₹0.00	₹1,925.52	25	₹0.00	₹48,138.06	₹48,138.06
21012	OHE-35	Supply and Erection of safety items i.e. Fire extinguishers, set of fire bucket with stand and first aid box, key box with suitable key chain, locks and other misc items required for commissioning of switching station	Set	₹17,272.15	₹2,888.83	1	₹17,272.15	₹2,888.83	₹20,160.97
21013	OHE-36	Supply and Erection of Retro-reflective type boards - 25kV AC OHE danger board/ danger board for height gauge, public, staff caution board and special boards required for commissioning of OHE/SWS/TSS	Each	₹483.89	₹173.37	100	₹48,389.48	₹17,337.29	₹65,726.77
	A	Total Amount (Exclusive of GST) =					₹73,39,858.14	₹6,23,374.03	₹79,63,232.17
	B	Add 3.4% on above					₹2,49,555.18	₹21,194.72	₹2,70,749.89
	A+B	Gross Amount (Exclusive of GST) =					₹75,89,413.32	₹6,44,568.74	₹82,33,982.06



Signature
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCT PMU PROJECT, JAICHER

BILL OF QUANTITIES
Schedule 29000, SCADA

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
29001	SCADA-1	Preparation and supply of Design & Drawing for SCADA at RCC, TSSSP & SSP.	Job	₹0.00	₹4,32,076.27	1	₹0.00	₹4,32,076.27	₹4,32,076.27
29002	SCADA-2	Supply, Erection, Testing & Commissioning of Remote Station Equipments at remote stations as per RDSO Spec No. sloning of Remote Station Equipments at remote stations as per RDSO Spec No. TI/SPC/RCC/SCADA/0134 for SSP.	Nos	₹14,06,168.22	₹1,05,618.64	1	₹14,06,168.22	₹1,05,618.64	₹15,11,786.86
29003	SCADA-3	Modification/upgradation, testing & commissioning in existing standard SCADA software of RDSO Specification No. TI/SPC/ RCC/SCADA/0130 (Rev-2) at RCC Equipments for configuration, integration/ hooking up of additional RTUs of adjacent section with master station	Nos	₹0.00	₹79,316.53	1	₹0.00	₹79,316.53	₹79,316.53
29004	SCADA-4	Modification/integration of additional 01 no. BM in the existing RTU of RDSO Specification No. TI/SPC/RCC/SCADA/0130 (Rev-2) at Bharatpur SSP	Nos	₹0.00	₹37,288.14	1	₹0.00	₹37,288.14	₹37,288.14
29005	SCADA-5	Modification/upgradation, testing & commissioning in existing standard SCADA software of RDSO Specification No. TI/SPC/RCC/SCADA/0130 (Rev-2) at RCC Equipments for configuration, integration/ hooking up of additional 01 no. BM in the existing RTU of adjacent section with master station.	Job	₹0.00	₹79,316.53	1	₹0.00	₹79,316.53	₹79,316.53
29006	SCADA-6	Supply of 10% spare cards as per RDSO Spec No. TI/SPC/RCC/SCADA/0134.	Job	₹3,83,295.00	₹0.00	1	₹3,83,295.00	₹0.00	₹3,83,295.00
29007	SCADA-7	Supply & Erection of furniture at RCC as per RDSO Spec No. TI/SPC/RCC/SCADA/0134	Set	₹4,20,395.81	₹67,211.86	1	₹4,20,395.81	₹67,211.86	₹4,87,607.67
	A	Total Amount (Exclusive of GST) =					₹22,09,859.03	₹8,00,827.97	₹30,10,687.00
	B	Add 3.4% on above					₹75,135.21	₹27,228.15	₹1,02,363.36
	A+B	Gross Amount (Exclusive of GST) =					₹22,84,994.24	₹8,28,056.12	₹31,13,050.35



Signature
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCI PMU PROJECT, LAICHER									
BILL OF QUANTITIES									
Common Schedule of Bill/switching Post (SP/SSP)									
Schedule 30000 At Galvanized Steel Structures									
Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
30009	CS-9	Supply and Erection of all types of galvanised Steel Structures, Small Parts Steel etc.	MT	₹1,26,319.08	₹4,023.33	260	₹ 3,28,42,960.22	₹ 10,46,066.81	₹ 3,38,89,027.02
	CS-9(a)	Extra on Erection under Power Block.	MT	₹0.00	₹4,023.33	40	₹ 0.00	₹ 1,60,933.35	₹ 1,60,933.35
	CS-9(b)	Extra rate on Manual Erection.	MT	₹0.00	₹2,012.21	120	₹ 0.00	₹ 2,41,465.05	₹ 2,41,465.05
	A	Total Amount (Exclusive of GST) =					₹ 3,28,42,960.22	₹ 14,48,465.21	₹ 3,42,91,425.42
	B	Add 3.4% on above					₹ 11,16,660.65	₹ 49,247.82	₹ 11,65,908.46
	A+B	Gross Amount (Exclusive of GST) =					₹ 3,39,59,620.86	₹ 14,97,713.02	₹ 3,54,57,333.89



Signature
GM/CIW
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER									
BILL OF QUANTITIES									
Common Schedule of OH/E/switching Post (SP/SSP)									
Schedule 30000B: Concrete for Foundation									
Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
30006A	CS-6 (a)	Providing and laying of concrete for foundation and plinth in all types of Soils using M-10 grade concrete for main foundation and M-15 grade concrete for grouting and muffing including nominal reinforcement wherever required as per RDSO drawings.	CUM	₹6,217.67	₹2,031.71	2300	₹ 1,43,00,647.47	₹ 46,72,940.29	₹ 1,89,73,587.76
30006B	CS-6 (b)	Providing and laying of concrete for foundation and plinth in all types of Soils using M-15 grade concrete for main foundation and M-20 grade concrete for grouting and muffing including nominal reinforcement wherever required as per RDSO drawings	CUM	₹7,345.33	₹2,031.71	300	₹ 22,03,599.04	₹ 6,09,513.95	₹ 28,13,112.99
30007A	CS-7 (a)	100% Extra Payment over CS-6 (a) & (b) for foundation and plinth in ard Rock/heavy concrete equiring chiseling/Blasting/machine breaking	CUM	₹0.00	₹2,031.71	100	₹ 0.00	₹ 2,03,171.32	₹ 2,03,171.32
30007B	CS-7 (b)	50% Extra Payment over CS-6(b) for foundation and plinth in Soft Rock/Hard soil requiring chiseling/Blasting/machine breaking and in Black Cotton Soil	CUM	₹0.00	₹1,016.40	100	₹ 0.00	₹ 1,01,639.84	₹ 1,01,639.84
30008	CS-8	Providing and laying of Reinforced Concrete for Pier/Column/Pile, Cable Trench and Trench Cover and special designed foundations requiring reinforcement	CUM	₹0.00	₹9,351.30	60	₹ 0.00	₹ 5,61,077.91	₹ 5,61,077.91
	A	Total Amount (Exclusive of GST) =					₹ 1,65,04,246.51	₹ 61,48,343.30	₹ 2,26,52,589.81
	B	Add 3.4% on above					₹ 5,61,144.38	₹ 2,09,043.67	₹ 7,70,188.05
	A+B	Gross Amount (Exclusive of GST) =					₹ 1,70,65,390.89	₹ 63,57,386.98	₹ 2,34,22,777.86



GM Civil
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER									
BILL OF QUANTITIES									
Common Schedule of OHLE/switching Post (SP/SSP)									
Schedule 30000C: Miscellaneous Common Items of OHLE/switching Post (SP/SSP)									
Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
24012	TSS-8(a)	Supply, erection, testing & commissioning of 25kV single pole Vacuum circuit breaker with interlocking of rating 1600 Amp.	Each	₹ 5,64,150.54	₹ 6,742.04	1	₹ 5,64,150.54	₹ 6,742.04	₹ 5,70,892.57
24013	TSS-9(a)	Supply, erection, testing and commissioning of 25kV current transformers (1500-750/5A).	Each	₹ 1,02,459.09	₹ 886.37	1	₹ 1,02,459.09	₹ 886.37	₹ 1,03,345.46
24014C	TSS-10 (d)	Supply, erection, testing, and commissioning of control numeric relay panel suitable for Single Circuit breaker as per latest RDSO specification.	Each	₹ 19,27,571.92	₹ 17,404.47	1	₹ 19,27,571.92	₹ 17,404.47	₹ 19,44,976.39
24026	TSS-20	Supply and erection of earth electrode.	Each	₹ 3,501.00	₹ 1,378.31	30	₹ 1,05,029.85	₹ 41,349.43	₹ 1,46,379.28
24026A	TSS-20A	Extra payment on TSS-20 for excavation in hard soil/soft rock requiring machine drilling/breaking.	Each	₹ 0.00	₹ 689.16	20	₹ 0.00	₹ 13,783.14	₹ 13,783.14
24027	TSS-21	Supply and erection of earth leads 75 x 8mm mild steel flat laid in the ground or exposed as per site requirement.	Mtr	₹ 248.92	₹ 72.60	100	₹ 24,892.15	₹ 7,259.99	₹ 32,152.14
24028	TSS-22	Supply and erection of earth leads 50 x 6mm mild steel flat laid in the ground or exposed as per site requirement.	Mtr	₹ 120.17	₹ 57.43	150	₹ 18,025.35	₹ 8,614.46	₹ 26,639.81
30001	CS-1	Supply, Erection, Testing and Commissioning of 25kV, 1600Amp Vacuum Interruptor	Each	₹ 4,61,141.03	₹ 5,323.63	3	₹ 13,83,423.08	₹ 15,970.89	₹ 13,99,393.97
	(a)	Extra erection under Power Block	Each	₹ 0.00	₹ 5,323.63	1	₹ 0.00	₹ 5,323.63	₹ 5,323.63
30002	CS-2	Supply, Erection, Testing and Commissioning of 25kV Potential Transformer Type-I or Type-II.	Each	₹ 93,967.87	₹ 1,002.31	1	₹ 93,967.87	₹ 1,002.31	₹ 94,970.18
30003	CS-3	Supply, Erection, Testing and commissioning of 42kV Lightning Arrestor with surge monitor, counter and cable	Each	₹ 33,886.59	₹ 702.16	5	₹ 1,69,432.93	₹ 3,510.80	₹ 1,72,943.73
30004	CS-4	Supply and Installation of cables for SWS/TSS	Mtr	₹ 261.80	₹ 20.59	200	₹ 52,359.35	₹ 4,117.61	₹ 56,476.96
30005B	CS-5(b)	Supply, Erection, Oil Filtration, Testing and Commissioning of 25kV/240V,10 KVA Auxilliary (LT) supply transformer with 25 kV D.O. fuse switch assembly, anti climbing device, Arcing horns, post insulators, copper jumper and earth electrode etc.		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
	(i)	With Porcelain Insulators 1050mm CD.	Set	₹ 1,01,178.01	₹ 13,414.72	2	₹ 2,02,356.01	₹ 26,829.45	₹ 2,29,185.46
30005C	CS-5(c)	Supply, Erection, Oil Filtration, Testing and Commissioning of 25kV/240V,25 KVA Auxilliary (LT) supply transformer with 25 kV D.O. fuse switch assembly, anti climbing device, Arcing horns, post insulators, copper jumper and earth electrode etc.		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
	(i)	With Porcelain Insulators 1050mm CD.	Set	₹ 2,55,904.18	₹ 13,414.72	2	₹ 5,11,808.35	₹ 26,829.45	₹ 5,38,637.80
30010	CS-10	Supply and erection of Fencing Panels, Uprights, Gate and Anti-Climbing device	Mtr.	₹ 3,742.41	₹ 191.79	50	₹ 1,87,120.30	₹ 9,589.69	₹ 1,96,709.99
30011	CS-11	Supply and erection of Aluminium Jumper with Fastners	Each	₹ 2,946.29	₹ 315.32	10	₹ 29,462.86	₹ 3,153.22	₹ 32,616.08
30012	CS-12	Supply and erection of Copper Strips for equipment earthing	Mtr	₹ 1,777.86	₹ 189.63	50	₹ 88,892.87	₹ 9,481.33	₹ 98,374.20



Schedule 30000C: Miscellaneous Common Items of OHE/Switching Post (SP/SSP)

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
30014	CS-14	Supply and spreading of gravel/ ballast in the switching yard (TSS/SP/SSP)	CUM	₹ 1,335.81	₹ 9.75	100	₹ 1,33,580.72	₹ 975.22	₹ 1,34,555.94
30015A	CS-15(a)	Dismantling of Redundant foundations with compressor powered machines/manually with contractor's own men and material including consumables like Diesel Oil etc.	Nos.	₹ 0.00	₹ 5,960.78	0	₹ 0.00	₹ 0.00	₹ 0.00
30015B	CS-15(b)	Extra charges for retrieval of OHE masts or portal/TTC upright from the foundation and stacking it at nominated place as per the directions of Engineer.	Each location	₹ 0.00	₹ 3,323.34	10	₹ 0.00	₹ 33,233.41	₹ 33,233.41
30015C	CS-15(c)	Shifting of mast along with foundation block and unsupporting and supporting back the OHE, if required.	Each location	₹ 0.00	₹ 13,140.58	10	₹ 0.00	₹ 1,31,405.79	₹ 1,31,405.79
30016	CS-16	Monthly charges for one crane operator for full time operation for one crane including Monthly charges for one Watch & Ward for one crane.	Man Month	₹ 0.00	₹ 30,044.43	0	₹ 0.00	₹ 0.00	₹ 0.00
30017	CS-17	Supply, Erection, Testing and Commissioning of anti theft transformer 240Volt/2.2kV, 5 kVA with DO Fuse switch excavation of cable trench, laying of cables, earthing, jumpering, DG set including dismantling of above equipments as per directions of Engineer	Each location	₹ 95,050.46	₹ 66,752.88	2	₹ 1,90,100.92	₹ 1,33,505.77	₹ 3,23,606.69
30019	CS-19	Hiring charges for semi skilled Labour with proper tools for working during Non interlocking period.	Man- Days	₹ 0.00	₹ 469.19	0	₹ 0.00	₹ 0.00	₹ 0.00
30020	CS-20	Supply and Laying of dry stone boulder pitching of approx. 300mm thickness in exposed slopes at SWS,TSS and OHE Foundations etc	CUM	₹ 1,047.19	₹ 263.31	60	₹ 62,831.22	₹ 15,798.60	₹ 78,629.82
30021	CS-21	Extra Earthwork in filling at SWS, TSS and OHE Foundations	CUM	₹ 244.63	₹ 60.68	50	₹ 12,231.49	₹ 3,034.03	₹ 15,265.51
30022	CS-22	Drilling of 50mm dia holes in the existing RCC trestle beam/pier/mass concrete beam/Flat hard rock/heavy concrete bed, foundation, structure/ lined or unlined tunnels to the depth between 450mm to 1250mm with pneumatic rillers, compressor etc. and making the hole surface fit for insertion of bolts with all lead and lift. Supply and grouting of suitable galvanized MS bolts of size upto 32mm dia of varying length including nuts, check nuts, washers etc. Pressure Grouting the drilled holes (50mm dia) by epoxy grouting of approved quality of epoxy resin hardener and thinner. Payment includes supply, erection, grouting with suitable size bolts at regular intervals of earthing strip and its connection to brackets etc wherever required in tunnels. (All labour and materials shall be by the contractor)	Each Location	₹ 28,269.76	₹ 7,137.54	20	₹ 5,65,395.15	₹ 1,42,750.88	₹ 7,08,146.02
30023C	CS-23(c)	Supply and Erection of 25 kV single pole isolator 1600 Amp with insulators, with/without earth contact assembly and with/without interlock	Each	₹ 55,388.25	₹ 3,536.81	21	₹ 11,63,153.30	₹ 74,272.93	₹ 12,37,426.24
30023D	CS-23(d)	Supply and Erection of 25kV Double Pole Isolator 1600Amp with insulators, with/without earth contact assembly and with/without interlock	Each	₹ 1,04,789.51	₹ 3,536.81	6	₹ 6,28,737.08	₹ 21,220.84	₹ 6,49,957.92



Schedule 30000C: Miscellaneous Common Items of OHE/Switching Post (SP/SSP)

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4	5	6	7	8=5*7	9=6*7	10=8+9
30024A	CS-24(a)	Excavation of Earth to required depth below rail level, burying 13 mtrs of long rail and connecting it as per latest RDSO drawings at TSS/Switching Stations/mid section including covering back and proper dressing up of earth (Rail will be supplied by IRCON excluding earth electrodes)	Job	₹ 0.00	₹ 19,011.42	1	₹ 0.00	₹ 19,011.42	₹ 19,011.42
30024C	CS-24 ©	Supply and erection of earth lead using 75x8mm GI flat laid in ground/exposed as per the site requirement	MTR	₹ 635.18	₹ 304.49	100	₹ 63,517.90	₹ 30,448.61	₹ 93,966.51
30025	CS-25	Watching and guarding of OHE along the track for 12 hrs each day on administrative reasons		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
	(a)	Person with arms	Per Person/day	₹ 932.38	₹ 0.00	540	₹ 5,03,486.65	₹ 0.00	₹ 5,03,486.65
	(b)	Person without arms	Per Person/day	₹ 848.69	₹ 0.00	540	₹ 4,58,294.52	₹ 0.00	₹ 4,58,294.52
30026	CS-26	Supply & Erection of 25kV Support/ Post insulators with fittings and fasteners.	Each	₹ 5,282.07	₹ 200.46	50	₹ 2,64,103.57	₹ 10,023.12	₹ 2,74,126.68
30027	CS-27	Insulation tester with voltage selectable range of 250V, 500 V, 1000V, 2500V and 5000V digital numeric display with Insulation (InS), Polarisation Index (PI) and variable time test modes and IR measurements upto 1000G Ohms in hard carrying case with all standard accessories similar to Megger make model BM 5200 or Fluke 1550C or superior as approved by Engineer.	Each	₹ 2,18,965.09	₹ 0.00	1	₹ 2,18,965.09	₹ 0.00	₹ 2,18,965.09
30028	CS-28	Supply of Digital Ground/Earth tester suitable for 2, 3 & 4 point ground rod and soil resistivity testing having range 0.01Ω to 20kΩ with all standard accessories and carrying case similar to Megger Make Model DET4TR2 or Fluke 1623 or superior and as approved by Engineer.	Each	₹ 2,34,431.48	₹ 0.00	1	₹ 2,34,431.48	₹ 0.00	₹ 2,34,431.48
	A	Total Amount (Exclusive of GST) =					₹ 99,59,781.61	₹ 8,17,528.87	₹ 1,07,77,310.48
	B	Add 3.4% on above					₹ 3,38,632.57	₹ 27,795.98	₹ 3,66,428.56
	A+B	Gross Amount (Exclusive of GST) =					₹ 1,02,98,414.18	₹ 8,45,324.85	₹ 1,11,43,739.04



Signature
G.M. Civil
18/12/2025

RAILWAY ELECTRIFICATION WORK OF MCL PMC PROJECT, TALCHER

BILL OF QUANTITIES

Common Schedule of OHE/Switching Post (SP/SSP)

Schedule 40000: General Electrification of building, Pathway & yard Lighting.

Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4			11	12=9*11	13=10*11	14=12+13
40001	GE-1	Design and Preparation of working & completion drawings of all HT/LT electrical installations of the project section where work is carried out such as platform lighting, Yard lightning, Pathway lighting, internal electrification of level crossings, station building, offices, power line crossings, power supply distribution arrangements of stations/sub-stations, electrification of sub-station buildings etc & approval from the competent authority.	Job	₹ 0.00	₹ 2,31,680.32	1	₹ 0.00	₹ 2,31,680.32	₹ 2,31,680.32
40002	GE-3	Electrification of service buildings, passenger shelter, sheds, pump house, sub-station buildings, offices etc and additional requirement of points in quarters, LC gates etc		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40003	GE-3(i)	Wiring for light/ ceiling fan/exhaust fan/call bell/light plug/ group etc. points including circuit wiring, sub main wiring with Fire Retardant Low Smog (FRLS), PVC insulated, multistranded, copper conductor, single core cable on surface/in recessed PVC conduits, distribution boards, sub distribution boards, earthing etc. as required. Wiring shall be done as per sizes of cables, no. of points permissible in each circuit and sub mains as indicated in Explanatory Notes.	Point	₹ 0.00	₹ 1,805.24	250	₹ 0.00	₹ 4,51,311.22	₹ 4,51,311.22
40004	GE-3(ii)	Extra for provision of industrial type iron clad plug socket with 32A DP MCB in M.S. Box.	Point	₹ 0.00	₹ 904.79	10	₹ 0.00	₹ 9,047.90	₹ 9,047.90
40005	GE-3(iii)	Multiplug points (power strip 3 no. 6A socket controlled by 16 A switch) similar to Legrand cat no.6745.48 OR as approved by Engineer	No.	₹ 2,133.00	₹ 106.19	30	₹ 63,989.99	₹ 3,185.73	₹ 67,175.72
40006	GE-4	Supply, Erection, Testing and Commissioning of cubical type, wall mounted, dust & vermin proof, L.T. switch board of different capacities.		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40007	GE-4(i)	LT switch board 63 Amp comprising items indicated as under i) incoming MCCB 63A, 4 pole, 35kA, fixed type (Ics=100%Icu) - 1 No ii) Outgoing MCCB 40A, 4 pole, 25kA, fixed type (Ics=100%Icu) - 3 Nos iii) Outgoing MCB double pole, 6-32A, 10kA-16 Nos iv) Outgoing MCB Single pole, 6-32A, 10kA-8Nos v) Sleeved/ Epoxy coated copper bus-bar 200A in bus bar Chamber vi) Indication lights.	No.	₹ 1,00,327.17	₹ 15,915.63	2	₹ 2,00,654.33	₹ 31,831.26	₹ 2,32,485.59
40008	GE-5	Supply, Installation, Testing & Commissioning of weather proof, LT. feeder pillar of different capacities:		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40009	GE-5(i)	LT feeder pillar 63Amp comprising of the items indicated as under; (i) incoming MCCB 63A, 4 pole, 35kA, fixed type (Ics=100%Icu) - 1 No ii) Outgoing MCCB 40A, 4 pole, 25kA, fixed type (Ics=100%Icu) - 4 Nos iii) Outgoing MCB double pole, 40A, 10kA-2Nos iv) Outgoing MCB Single pole, of 40A, 10kA- 4 Nos v) Sleeved/ Epoxy coated copper bus-bar 200 A in bus bar Chamber vi) Indication lights.	No.	₹ 1,13,794.68	₹ 18,048.11	6	₹ 6,82,768.07	₹ 1,08,288.69	₹ 7,91,056.76



Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply 12=9*11	Erection 13=10*11	
1	2	3	4			11			14=12+13
40010	GE-5(ii)	LT feeder pillar 125Amp comprising of the items indicated as under i) incoming MCCB 125A, 4 pole, 35kA (Ics=100%Icu) - 1 No ii) Outgoing MCCB 63A, 4 pole, 25kA (Ics=100%Icu) - 4 Nos iii) Outgoing MCB 40A, 4 pole, 10kA - 4 Nos iv) Outgoing MCB 32A, DP, 10kA, 4Nos v) Outgoing MCB Single pole 32A, 10kA-4Nos vi) Modular digital time switch and 3 phase contactor 63 A - 2 Set vii) Sleeved/Epoxy coated copper busbar 250A in bus bar Chamber viii) Indication lights.	No.	₹ 1,35,812.43	₹ 21,543.74	2	₹ 2,71,624.86	₹ 43,087.49	₹ 3,14,712.35
40011	GE-5(iii)	LT feeder pillar 250Amp comprising of the items indicated as under i) Incoming MCCB 250A, FP 35kA (Ics=100%Icu) Fixed Type - 1 No ii) Outgoing MCCB 125A, FP 35kA (Ics=100%Icu) Fixed Type - 2 Nos iii) Outgoing MCCB 63A, FP 25kA (Ics=100%Icu) Fixed Type - 4 Nos iv) Outgoing MCB 40 Amps, FP, 10kA - 4 Nos v) Outgoing MCB 32 Amps DP 10kA - 4 Nos vi) Outgoing MCB Single pole 32A, 10kA - 4 Nos vii) Modular digital time switch and 3 phase contactor 63 A - 2 Set viii) Sleeved/Epoxy coated copper bus-bar 400A in bus bar Chamber. ix) Indication lights.	No.	₹ 2,10,572.57	₹ 33,400.28	1	₹ 2,10,572.57	₹ 33,400.28	₹ 2,43,972.85
40012	GE-6	Earthing with 3m long, 50mm dia, G.I. pipe class 'B' earth electrode, adding the charcoal or coke and salt, providing concrete enclosure and MS cover plate with lifting arrangement etc. including connections with 4mm G.I. wire from earth electrode to switch board / electrical equipment as required.	Job	₹ 3,756.35	₹ 595.97	12	₹ 45,076.25	₹ 7,151.63	₹ 52,227.88
40013	GE-7	Supply and Laying 25mm x6mm G.I. strip at not less than 0.50 meter below ground or in recess as required.	Meter	₹ 83.69	₹ 15.17	60	₹ 5,021.35	₹ 910.21	₹ 5,931.56
40014	GE-8	Supply and Laying of 1.1kV grade LT XLPE insulated armoured, aluminium conductor cable, making good the damages, end terminations with aluminium crimping socket/plugs, provisions of cable route markers, testing & commissioning etc. as required as per technical specifications:		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40015	GE-8(i)	2 Core 16 sq.mm	Meter	₹ 362.65	₹ 27.09	3200	₹ 11,60,489.20	₹ 86,686.43	₹ 12,47,175.63
40016	GE-8(ii)	2 Core 70 sq.mm	Meter	₹ 717.80	₹ 44.43	1500	₹ 10,76,692.78	₹ 66,640.19	₹ 11,43,332.97
40017	GE-8(iii)	2 Core 185 sq.mm	Meter	₹ 1,480.65	₹ 60.68	500	₹ 7,40,326.88	₹ 30,340.25	₹ 7,70,667.13
40018	GE-8(iv)	4 Core 16 sq.mm	Meter	₹ 469.95	₹ 27.09	2000	₹ 9,39,893.25	₹ 54,179.02	₹ 9,94,072.27
40019	GE-8(v)	4 Core 35 sq.mm	Meter	₹ 663.08	₹ 27.09	6000	₹ 39,78,452.25	₹ 1,62,537.05	₹ 41,40,989.30
40020	GE-8(vi)	4 Core 70 sq.mm	Meter	₹ 1,057.92	₹ 44.43	1000	₹ 10,57,916.38	₹ 44,426.79	₹ 11,02,343.17
40021	GE-8(vii)	Trenching work for single cable	Meter	₹ 0.00	₹ 255.72	3400	₹ 0.00	₹ 8,69,464.88	₹ 8,69,464.88
40022	GE-8(viii)	Trenching work for multiple cables	Meter	₹ 0.00	₹ 460.52	10500	₹ 0.00	₹ 48,35,477.34	₹ 48,35,477.34
40023	GE-9	Supply and Erection of GI pipe - class 'B' ISI marked with accessories including bends etc. for support of cable with erected pole/ recessing in wall/ floor/ passing earth strip OR passing cable as required:		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00



Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4			11	12=9*11	13=10*11	14=12+13
40024	GE-9(i)	100 mm dia	Meter	₹ 1,242.46	₹ 198.30	180	₹ 2,23,643.09	₹ 35,693.14	₹ 2,59,336.23
40025	GE-9(ii)	150 mm dia	Meter	₹ 2,021.41	₹ 321.82	180	₹ 3,63,854.57	₹ 57,928.21	₹ 4,21,782.77
40026	GE-10	Supply, Erection, Testing and Commissioning of exhaust fan suitable for 1-phase, 230Volts, AC supply system complete with capacitor, louver shutters, grouting bolts with nuts, making opening/ modification in the wall to suit the size of the fan, making good the damages, connections with 1.5sq.mm FR, PVC insulated, multi stranded copper conductor, single core/ three cable as instructed, earthing etc. as required:		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40027	GE-10(i)	AC exhaust fan 300mm, 900 rpm with/ without louver shutters.	No.	₹ 3,985.96	₹ 629.56	10	₹ 39,859.63	₹ 6,295.60	₹ 46,155.23
40028	GE-11	Supply, Installation, Testing and Commissioning of 230V AC ceiling fan 1400mm with double ball bearing and suitable capacitor complete with wiring with 1.5sq.mm FR PVC insulated copper conductor, single/ three core cable as instructed etc. as required.	No.	₹ 2,686.64	₹ 425.85	24	₹ 64,479.25	₹ 10,220.33	₹ 74,699.58
40029	GE-12	Supply and Fixing of stepped type, electronic fan regulator with suitable rating for the Ceiling Fan on the existing phenolic laminated sheet cover plate/ modular plate of switch box, including connections, testing and commissioning as required.	No.	₹ 504.28	₹ 113.78	24	₹ 12,102.74	₹ 2,730.62	₹ 14,833.36
40030	GE-13	Supply, Installation, Testing and Commissioning of 11-15W LED lamp as approved by Engineer.	No.	₹ 263.94	₹ 42.26	48	₹ 12,669.25	₹ 2,028.46	₹ 14,697.71
40031	GE-14	Supply, Erection, Testing and Commissioning of LED down lighter having pressure die cast aluminium housing white powder coated and acrylic cover, system wattage 14-16w suitable to work on 220-240V AC supply.	No.	₹ 1,933.43	₹ 705.41	20	₹ 38,668.67	₹ 14,108.22	₹ 52,776.88
40032	GE-15	Supply, Erection, Testing and Commissioning of LED flood light fittings pre die cast aluminium IP-65 with high power LED as light source with system wattage 200-210W suitable to work on 220-240V AC supply as approved by Engineer.	No.	₹ 37,289.94	₹ 759.59	8	₹ 2,98,319.54	₹ 6,076.72	₹ 3,04,396.26
40033	GE-16	Supply & Erection of G.I Octagonal pole including digging of pit, making foundation with cement, sand & concrete in ratio 1:2:6, muffing, accommodating G.I pipe in foundation for cable loop-in-loop out of suitable size as required:		₹ 0.00	₹ 0.00		₹ 0.00	₹ 0.00	₹ 0.00
40034	GE-16(i)	7 meters long.	No.	₹ 18,837.56	₹ 4,670.23	60	₹ 11,30,253.82	₹ 2,80,213.88	₹ 14,10,467.70
40035	GE-16(ii)	Additional cost of single arm bracket suitable for street light fixture.	No.	₹ 566.51	₹ 141.95	20	₹ 11,330.22	₹ 2,838.98	₹ 14,169.20
40036	GE-16(iii)	Additional cost of double arm bracket suitable for street light fixture.	No.	₹ 671.66	₹ 167.95	40	₹ 26,866.36	₹ 6,718.20	₹ 33,584.55
40037	GE-17	Supply, Erection, Testing and Commissioning of LED Street light fitting, pressure di-cast aluminium housing with suitable cover, suitable to work on 220- 240V AC supply with system wattage as under :		₹ 0.00	₹ 0.00				
40038	GE-17(i)	Fitting 70-74 W	No.	₹ 11,564.12	₹ 634.98	80	₹ 9,25,129.63	₹ 50,798.25	₹ 9,75,927.88
40039	GE-18	Supply, Installation, Testing and Commissioning of light sensitive street light controller, 25kW for street light/ High mast complete with infrared sensors, contactors and MCB, terminal board etc. for 25 KW load, Operative Voltage 185-275 V AC. Make: Bajaj Energy pack or equivalent as approved by Engineer.	No.	₹ 53,046.03	₹ 2,329.77		₹ 1,09,092.06	₹ 4,659.40	₹ 1,10,751.46



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Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4			11	12=9*11	13=10*11	14=12+13
40040	GE-19	Supply, Erection, Testing and Commissioning of hot dipped galvanised, high mast system complete with all accessories, foundation, carriage arrangement suitable for LED luminaries symmetrically arranged & control gear boxes and lighting finial etc., twin dome aviation obstruction lights, control panel, multi core flexible copper conductor cable, connection to earthing system and fencing panel as per requirement:		₹ 0.00	₹ 0.00				
40041	GE-19(i)	16 Meter high mast system, suitable for 6 to 9 nos luminaires.	Job	₹ 3,23,832.92	₹ 51,565.42	10	₹ 32,38,329.23	₹ 5,15,654.22	₹ 37,53,983.45
40042	GE-19(ii)	25 Meter high mast system suitable for 9 to 12 nos luminaires.	Job	₹ 4,94,555.52	₹ 55,985.35	6	₹ 29,67,333.12	₹ 3,35,912.08	₹ 33,03,245.19
40043	GE-20	Supply, Installation, Testing and Commissioning of AC unit, complete with LCD display cordless remote, min 3 star energy rating, suitable for 1-Phase, 230Volts +10% AC supply including supply & installation of suitable rating, wall mounted, IC controlled electronic auto voltage corrector.		₹ 0.00	₹ 0.00				
40044	GE-20(a)	2.0 Tonne split type AC, inverter type(5-star rating)	No.	₹ 75,333.09	₹ 4,262.81	12	₹ 9,03,997.05	₹ 51,153.66	₹ 9,55,150.71
40045	GE-21	Supply of Light meter measuring up to 200000 lux with battery and carry case (HTC instruments make ref LX-103 or equivalent as approved by Engineer).	No.	₹ 2,028.92	₹ 0.00	1	₹ 2,028.92	₹ 0.00	₹ 2,028.92
40046	GE-22	Supply, erection, testing & commissioning of auto change-over type control and distribution panel for colour light signalling supply in 25KV AC traction system as per RDSO technical specifications No.TI/SPC/PSI/CLS/0023 including latest amendment.		₹ 0.00	₹ 0.00				
40047	GE-22(i)	For-5-10 KVA AT	No.	₹ 93,905.64	₹ 14,895.98	2	₹ 1,87,811.27	₹ 29,791.96	₹ 2,17,603.23
40048	GE-22(ii)	For25 KVA AT	No.	₹ 1,99,794.91	₹ 31,691.47	1	₹ 1,99,794.91	₹ 31,691.47	₹ 2,31,486.39
40049	GE-23	Supply and laying of HDPE pipe as per IS:4984-1995 (PN-4/PE-80, with minimum wall thickness of 6.2 mm) of different sizes under the Railway track/ road etc after digging of trench and back filling with excavated earth after laying of pipe and making good the damages as required		₹ 0.00	₹ 0.00				
40050	GE-23(i)	Outer Dia-63 mm	Meter	₹ 97.64	₹ 26.01	108	₹ 10,544.83	₹ 2,808.64	₹ 13,353.47
40051	GE-23(ii)	Outer Dia-110 mm	Meter	₹ 285.40	₹ 26.01	240	₹ 68,496.33	₹ 6,241.42	₹ 74,737.75
40052	GE-24	Supply, Installation, Testing & Commissioning of cubical type mast mounted, dust & vermin proof, LT control switch board conforming to IS:8623 (latest version), complete:		₹ 0.00	₹ 0.00				
40053	GE-24(i)	a) with TPN MCCB 63A, 35KA, Fixed type (Ics=100% Icu) - 1 no b) Copper busbars 200A (for 10 KVA AT)	Nos.	₹ 20,126.16	₹ 4,988.80	3	₹ 60,378.48	₹ 14,966.41	₹ 75,344.90
40054	GE-24(ii)	a) with TPN MCCB 150A, 35KA, Fixed type (Ics=100% Icu) - 1 no b) Copper busbars 300A (for 25 KVA AT)	Nos.	₹ 23,912.56	₹ 5,926.10	1	₹ 23,912.56	₹ 5,926.10	₹ 29,838.66



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Sch. No.	Item No.	Description	Unit	Rate (Exclusive of GST)		Quantity	Amount (Exclusive of GST)		Total Amount (Exclusive of GST)
				Supply	Erection		Supply	Erection	
1	2	3	4			11	12=9*11	13=10*11	14=12+13
40055	GE-25	Provision of temporary lighting arrangement with 1x40watt F.L tube light fittings/CFL fitting/Flood light/Halogen fitting and pedestral/ceiling fans, desert coolers in temporary tents, buildings, goomties, on tracks, in yard area including wiring, cabling, earthing etc. as directed by the Engineer and as per site requirement for pre/post/during non-interlocking period, including providing stand by DG set of suitable capacity and deployment of staff for operation of DG set as per site requirement.	Per Day	₹ 0.00	₹ 31,977.54	10	₹ 0.00	₹ 3,19,775.40	₹ 3,19,775.40
40056	GE-26	Extrs for operation and maintenance of temporary wiring installations, replacement of consumables, supply of diesel oil, lub oil etc for operation of DG set etc.	Per Day	₹ 0.00	₹ 6,345.45	10	₹ 0.00	₹ 63,454.47	₹ 63,454.47
40057	GE-27	Supply and Erection 25KVA 415V(3-phase) Silent DG Set with latest specification or as required	Set	₹ 4,76,170.12	₹ 4,761.70	2	₹ 9,52,340.24	₹ 9,523.40	₹ 9,61,863.64
40058	GE-28	Supply and Erection water purifier which Filtration Capacity . 15L/hr, Storage tank Capacity min 10 Litres & with hot and cool water output equivalent to AO Smith, Aquaguard,Kent as directed to Engineer incharge.	Each	₹ 32,500.00	₹ 1,625.00	2	₹ 65,000.00	₹ 3,250.00	₹ 68,250.00
40059	GE-29	Supply, Erection, Testing and Commissioning of self contained drinking water cooler 150 liters capacity complete with all connected standard fittings,accessories etc. and 5kVA, wall mounted, I.C. controlled electronic auto-voltage corrector with time delay relay, supply and erection of earth electrode and connection to earthing system etc. as required.	Each	₹ 74,371.74	₹ 16,229.87	2	₹ 1,48,743.47	₹ 32,459.73	₹ 1,81,203.20
40060	GE-30	Supply, Erection, Testing & Commissioning of Outdoor Type Junction Box Suitable for 4 Nos. Incoming & 4 Nos. Outgoing 63A Connector complete in all respect	No	₹ 15,492.68	₹ 781.29	15	₹ 2,32,390.27	₹ 11,719.36	₹ 2,44,109.64
	A	Total Amount (Exclusive of GST) =					₹ 2,27,47,847.66	₹ 89,84,285.00	₹ 3,17,32,132.66
	B	Add 3.4% on above					₹ 7,73,426.82	₹ 3,05,465.69	₹ 10,78,892.51
	A+B	Gross Amount (Exclusive of GST) =					₹ 2,35,21,274.48	₹ 92,89,750.69	₹ 3,28,11,025.17



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