



कटनी-सिंगरौली रेल दोहरीकरण परियोजना (विद्युत विभाग)
प्रथम तल, मारुति सुजुकी शोरूम के ऊपर, झिंझरी, पुलिस स्टेशन के समीप, नेशनल हाइवे-7,
जबलपुर रोड, कटनी-483501 (म.प्र.) ई-मेल – rekss.5031@ircon.org



No. IRCON/2065/KSDP/Elect/Gen/04/702

Date: 30.04.2026

To,
M/s Shivram Electricals,
5, Orange Mall,
Near Sharda Petrol Pump,
Chandkheda, Ahmedabad-382424
E-mail ID: shivramelect2001@yahoo.com

LETTER OF ACCEPTANCE

Sub: Design, Supply, Installation, Testing & Commissioning of External electrification of Residential quarters, platform lighting, Station buildings, HT/LT power supply arrangement, power line modification etc. for balance general electrical work in connection to Katni Singrauli Doubling Project of West Central Railway.

Ref: i) e-procurement notice no.- IRCON/2065/KSDP/Elect/Gen/04, dated 19.03.2026
ii) Your offer no. 1007506, dated 09.04.2026
iii) Technical bid opened on date 10.04.2026 and financial bid opened on date 22.04.2026

Dear Sir,

With reference to the above, this is to inform you that your offer for the subject work, has been accepted at a total contract value of **Rs. 4,79,28,885.23** (Four Crores Seventy-Nine Lakhs Twenty-Eight Thousand Eight Hundred Eighty-Five Rupees & Twenty-Three Paise Only), i.e. 2.50% below estimated cost of Rs. 4,91,57,831/- (As per attached BOQ), inclusive of GST @ 18% and any other taxes & duties etc., on the following terms and conditions:

1.0 SCOPE OF WORK:

The scope of work in the subject tender covers “Design, Supply, Installation, Testing & Commissioning of External electrification of Residential quarters, platform lighting, Station buildings, HT/LT power supply arrangement, power line modification etc. for balance general electrical work in connection to Katni Singrauli Doubling Project of West Central Railway.”

The detailed scope of work shall be as per the relevant clauses of Section-V & VI of the tender documents issued to you and submitted by you with your offer.

2.0 CONTRACT AGREEMENT: (SCC clause - 14)

The contractor shall enter into and execute the Contract Agreement in the form of agreement (Annexure-X) within 28 days from the date of issue of Letter of Acceptance (LOA). The stamp paper of the requisite value as per the prevailing laws shall be provided by the contractor at his own cost. Original agreement shall be retained by the employer/ engineer and a certified copy shall be made available to the contractor.

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3.0 COMMENCEMENT OF CONTRACT: (SCC clause - 29)

Date of issue of Letter of Acceptance (LOA) shall be considered as the commencement date of Contract.

4.0 COMPLETION PERIOD:

The work is required to be completed within 9 (Nine) months from the date of issue of Letter of Acceptance (LOA) as per clause-30 of SCC.

The work has to be executed in co-ordination with other agencies working on or near the project.

In case of any delay in the completion period, the extension of the same shall be dealt as per clause 17 of railway GCC April 2022.

5.0 FREIGHT AND INSURANCE CHARGES:

The rate shall be inclusive of freight & Insurance charges as per clause 31 of SCC.

6.0 TAXES, DUTIES & LEVIES:

Taxes, duties & levies shall be as per clause 32 of SCC.

7.0 PAYMENT TERMS: (SCC clause - 39)

SN	Description	Payment in Percentage
Sch. A-1: HT/LT Power supply arrangement, electrification of platforms, service buildings, power line crossings & other miscellaneous works		
1	Payment for supply of materials as per BOQ Schedules shall be as under:	
a)	Supply of materials at site/ Store	70%
b)	Erection of above materials	20%
c)	Testing & Commissioning of installation	5%
d)	Handing over of executed work	5%
Total		100%
2	Payment for Erection of materials as per BOQ Schedules shall be as under	
a)	Erection of Materials	90%
b)	Testing & commissioning of Executed Works	5%
c)	Handing over of executed work	5%
Total		100%
Sch. B: Technical Consultants & Site Facilities		
1	Against providing services	100%

Documents required for release of Schedule- payment are as per clause 39 of SCC.

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8.0 MODE OF PAYMENT AND TAX DEDUCTION AT SOURCE: (SCC clause - 40)

a) Mode of Payment:

All payments to the Contractor shall be made through Electronic Clearing System (ECS) after submission of Tax Invoice and required documents as per clause 39 of SCC. The contractor shall furnish his Banker's details in addition to his own bank account details. All amounts payable to the contractor shall be directly credited to his bank account.

b) Tax Deduction at Source

Income Tax and all statutory dues (if any applicable) shall be deducted from the payments credited/ released by employer/ engineer to the contractor against execution of work as per income tax act 1961. The deductions shall be made as per prescribed rates prevalent from time to time unless a tax exemption certificate is produced by the contractor.

9.0 PERFORMANCE SECURITY & RETENTION MONEY: (SCC clause - 10)

The contractor shall submit a Performance Security (PS) in the form of a Performance Guarantee (PG). The Performance Guarantee shall be in the form of irrevocable Bank Guarantee (BG) (e-BG issued on NeSL platform is also acceptable) in the format annexed as Annexure-II from any Scheduled Bank or in the form of Insurance Surety bond in the format annexed as Annexure II A issued by an Insurance Company authorized to do so by Insurance Regulatory & Development Authority of India (IRDAI) for an amount of 5% (Five percent) of the contract value i.e. **Rs. 23,96,445/-**. The performance security and retention money shall be as per clause 10 of SCC.

Retention money for all contracts shall be recovered from on account/ final bills of the Contractor @ 10% of gross value of each bill after adjusting Earnest Money Deposit (EMD) amount till the amount so recovered including EMD amount adds up to 5% of the contract value (including GST and all other duties & taxes & all variations but excluding price variation) of the work.

10.0 INSURANCE

The Insurance policy shall be obtained & submitted by the contractor in line with clause 11 of SCC.

11.0 QUANTITY VARIATION:

Quantity variation is applicable as per SCC clause 54 & in line with clause 42 of railway GCC April 2022.

12.0 DEFECT LIABILITY PERIOD

The defect liability period shall be for 18 months as per clause 55 of SCC.

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13.0 PRICE ADJUSTMENT:

Price adjustment is applicable as per SCC clause 58.

All other terms & conditions shall be applicable as per the tender document & subsequent corrigendum issued.

This Letter of Acceptance is issued in duplicate. You are requested to return one copy duly signed and stamped in token of your acceptance at the earliest.

Thanking you,

Yours faithfully
For & on behalf of
IRCON International Ltd

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(R. K. Singh)
Chief General Manager/Elect.

Balance General Electrical Works in Katni-Singrauli Doubling Project

BILL OF QUANTITY

SUMMARY		
Sr. No.	Description of Schedule	Amount (Incl. GST)
A	General Electrical Works	
1	HT/LT Power supply arrangement, electrification of platforms, service buildings, power line crossings & other miscellaneous works	₹ 4,37,89,024.20
B	Technical Consultants & Site Facilities	₹ 53,68,807.17
Total Amount		₹ 4,91,57,831.00
Contractor Quoted below		2.50%
LOA Amount as per contractor's quote		₹ 4,79,28,885.23

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Balance General Electrical Works in Katni-Singrauli Doubling Project

BILL OF QUANTITY

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
Schedule - A-1								
A-1	HT/LT Power supply arrangement, electrification of platforms, service buildings etc., cables, solar panel, transformers & miscellaneous works							
1	Supply, Erection, Testing and Commissioning of control and distribution panel for colour light signalling supply in 25kV AC traction system as perRSDO technical specifications No. TI/SPC/PSI/CLS/0020(12/02) With A&C slips No. 1 to 4 or latest, connections as required: For							
(a)	10 KVA AT	Nos	3	96,242.63	15,116.75	2,88,727.89	45,350.25	3,34,078.14
(b)	25 kVA AT	Nos	3	1,60,590.09	25,222.61	4,81,770.27	75,667.83	5,57,438.10
2	Junction Box 300x300x170 with Al. Busbar including of 63A/125A fuse for 10kVA/25KVA AT, Neutral Link, 2 Nos Gland with required size, Earthing connection with 8mm bolt, Powder coated paint, Dust proof rubber seal, Bolt 04 nos for fixing box etc.	Nos	6	1,975.22	219.47	11,851.32	1,316.82	13,168.14
3	Dismantling of control and distribution panel for colour light signaling supply in 25KV AC traction system & erection at other location/ hand over to railway	Nos	1	-	10,855.08	-	10,855.08	10,855.08
4	Supply, erection, oil filtration, testing & commissioning of 25KV/240V Auxiliary (LT) Supply Transformers oil type with DO fuse switch, anti climbing device, Arcing horns, pedestal insulators, copper jumper and earth electrode etc. (With Porcelain Insulators 1050mm CD)			-	-	-	-	
(a)	10 KVA AT	Set	3	1,48,161.08	15,094.04	4,44,483.24	45,282.12	4,89,765.36
(b)	25 kVA AT	Set	3	4,38,730.99	33,073.47	13,16,192.97	99,220.41	14,15,413.38
5	Supply and erection of all types of galvanised steel structures, small parts steel etc.	MT	1.5	1,49,218.05	3,475.92	2,23,827.08	5,213.88	2,29,040.96
6	Supply of cable joint kit,suitable for 2 core LT 70 sqmm to 150 sqmm XLPE(E) insulated aluminium conductor cable and testing and commissioning etc.	Nos	5	4,184.78	464.98	20,923.90	2,324.90	23,248.80
7	Supply, erection, testing & commissioning of 63Amp Changeover switch enclosure complete in all respect	Nos	5	5,816.16	1,454.04	29,080.80	7,270.20	36,351.00
8	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:			-	-	-	-	
(a)	5 Meters long	Nos	40	13,926.94	3,418.78	5,57,077.60	1,36,751.20	6,93,828.80
(b)	7 Meters long	Nos	70	19,306.37	4,739.45	13,51,445.90	3,31,761.50	16,83,207.40
(c)	Additional cost of single arm bracket suitable for street light fixture	Nos	40	580.61	144.06	23,224.40	5,762.40	28,986.80
(d)	Additional cost of double arm bracket suitable for street light fixture	Nos	70	688.38	170.44	48,186.60	11,930.80	60,117.40
9	Supply and laying of unplasticised rigid PVC pipe 110mm conforming to IS : 13592 Type A ISI marked alongwith all accessories like socket, bend,coupler etc complete with fitting cutting & jointing etc direct in ground including excavation & refilling the trench complete as required	Mtr	400	231.30	25.70	92,520.00	10,280.00	1,02,800.00

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Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
10	Supply, erection,testing and comissioning of 36 watt LED Street light fitting with luminaries,220- 240V 50 HZ , CRI >70, IP-65,power factor>.95. cool white, integral drive, lumen output 3500 im, confirming to IEC 60598 and IS 10322 and Railway specification, make crompton Greaves, Philips, Bajaj, Havells. cost of fixing arrangement (clamps and fasteners with all accessories and service connection by mean of 2x1.5+1x1.5 sqmm copper wire completed power supply connection) is included.	Nos	120	6,534.05	644.39	7,84,086.00	77,326.80	8,61,412.80
11	Supply, erection,testing and comissioning of 45 watt LED Street light fitting with luminaries,220- 240V 50 HZ , CRI >70, IP-65,power factor >.95. cool white, integral drive, lumen output 3500 im, confirming to IEC 60598 and IS 10322 and Railway specification, make crompton Greaves, Philips, Bajaj, Havells. cost of fixing arrangement (clamps and fasteners with all accessories and service connection by mean of 2x1.5+1x1.5 sqmm copper wire completed power supply connection) is included.	Nos	60	7,655.69	644.39	4,59,341.40	38,663.40	4,98,004.80
12	Supply, excavation of trench and laying of 1.1 KV 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.			-	-	-	-	
(a)	2 Core 70 sq.mm	Meter	1000	735.66	45.08	7,35,660.00	45,080.00	7,80,740.00
(b)	4 Core 16 sq.mm	Meter	4000	481.64	27.49	19,26,560.00	1,09,960.00	20,36,520.00
(c)	4.0 Core 35 sq.mm	Meter	1000	679.57	27.49	6,79,570.00	27,490.00	7,07,060.00
(d)	4.0 Core 70 sq.mm	Meter	1000	1,084.24	45.08	10,84,240.00	45,080.00	11,29,320.00
(e)	4.0 Core 120 sq.mm	Meter	1200	1,712.14	61.58	20,54,568.00	73,896.00	21,28,464.00
(f)	4.0 Core 300 sq.mm	Meter	300	3,882.83	113.26	11,64,849.00	33,978.00	11,98,827.00
(g)	2 Core 150 sq.mm	Meter	500	866.55	34.66	4,33,275.00	17,330.00	4,50,605.00
13	Supply , excavation of trench and laying of following sizes XLPE (E) insulated, armoured, aluminium conductor HT cable			-	-	-	-	
(a)	11 kV, 3 Core 185 sq mm	Meter	1000	1,871.59	109.96	18,71,590.00	1,09,960.00	19,81,550.00
(b)	33 kV, 3 Core 300 sq mm	Meter	1200	2,612.74	177.04	31,35,288.00	2,12,448.00	33,47,736.00
14	Supply of outdoor type, heat shrinkable, end termination kit, suitable for following cable sizes XLPE(E) insulated, armoured aluminium conductor cable and making termination, connections with overhead conductor, testing and commissioning etc			-	-	-	-	
(a)	3 core 11 kV 70 to 185 sq mm	Set	4	15,079.36	2,368.62	60,317.44	9,474.48	69,791.92
(b)	3 core 33 kV 240 to 400 sq mm	Set	4	47,295.49	4,676.77	1,89,181.96	18,707.08	2,07,889.04
15	Supply and erection of MS cable route marker	No	50	451.95	20.89	22,597.50	1,044.50	23,642.00
16	Supply & Installations of 5 star, 1.5 Ton Split AC, inverter type (Heating & cooling), with auto voltage corrector (i.e. stabilizer), Make-Voltas or similar	No	8	68,412.75		5,47,302.00		5,47,302.00

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
17	20A MCB and socket for air Conditioner: Supply & fixing of 20A, 240V SPN, industrial type socket outlet with two pole & earthmetal enclosed plug top alongwith 20 A Ac seriesSP MCB in sheet steel enclosure on surface or with chained metal cover for socket outlet and complete with connection , testing & commissioning etc as required. Prior approval for material shall be taken from competent authority. Preferable make shall be Legrand, Seimens, Schneider or equivalent.	No	10	-	988.29	-	9,882.90	9,882.90
18	Power circuit wiring for Air conditioner: Supply, erection, testing commisioning of power circuit wiring with 2x6 sqmm for P & N and 1x6 Sqmm for earth PVC insulated multi stranded copper wire single core for earth. Preferable make of wire shall be polycab , Universal, CCI or similar.	Mtr	500	-	87.08	-	43,540.00	43,540.00
19	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.							
(a)	Double pole	Each	30	-	470.04	-	14,101.20	14,101.20
20	Supply, installation, testing and commissioning of 11 KV/ 440 V , 50 HZ , out door type, Delta/Star connected, copper wound, DYn11, ONAN cooled, power distribution transformer (outdoor type) conforming to IS:1180 (Energy Efficiency level shall not be less than-II), complete with all accessories and first filling of oil as required.			-	-	-	-	
(i)	100 KVA	No	2	3,54,123.43	63,728.50	7,08,246.86	1,27,457.00	8,35,703.86
(ii)	250KVA	No	1	7,67,770.34	1,03,195.65	7,67,770.34	1,03,195.65	8,70,965.99
(iii)	Extra for construction of foundation for transformer installation/ Panels / others etc as required.	CUM	20	6,741.89	1,906.77	1,34,837.80	38,135.40	1,72,973.20
21	Electrification of service building/Passenger Shelter shed,Pump house/ Substation building etc.			-	-	-	-	
(a)	Wiring for light /celling fan/ exhaust fan/ call bell/ light plug/ group etc. points including circuit wiring, submain wiring with Fire Retardant (FR), PVC insulated, multistranded, copper conductor, single core cable on surface /inrecessed PVC conduits, distribution boards, subdistribution boards, earthing etc. as required. Wiring shall be done as per sizes of cables, no. of points permissible in each circuit and submains as indicated in Explanatory Notes.	Point	300	-	1,831.99	-	5,49,597.00	5,49,597.00
(b)	Wiring for power plug point including circuit wiring, submain wiring with Fire Retardant (FR), PVC insulated, multistranded, copper conductor, single core cable on surface/ inrecessed PVC conduits, distribution boards, sub distribution boards, earthing with G.I.pipe electrode 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	200	-	3,363.80	-	6,72,760.00	6,72,760.00
(c)	Extra for provision of industrial type iron clad plug socket with 32A DP MCB in M.S. Box.	Point	10	-	918.20	-	9,182.00	9,182.00
(d)	Multi plug points (power strip 3no. 6A socket controlled by 16A switch) similar to Legrand cat no. 6745.48 OR as approved by engineer.	Nos.	10	2,186.08	107.76	21,860.80	1,077.60	22,938.40
22	Civil plastering & finishing work							
(a)	12 mm cement plaster (in fine sand) of mix 1:6 (1 cement: 6 fine sand)	Sqm	200	-	326.78	-	65,356.00	65,356.00

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
(b)	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	100	-	156.05	-	15,605.00	15,605.00
(c)	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour: New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	100	-	185.65	-	18,565.00	18,565.00
23	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meters lead.	Sqm	500	-	53.57	-	26,785.00	26,785.00
24	Supplying and fixing of 20mm size of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required	Mtrs	500	-	71.01	-	35,505.00	35,505.00
25	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. (a) 3x6 sqmm	Mtrs	100	-	141.18	-	14,118.00	14,118.00
26	Rewiring work of old quarters			-	-	-	-	
(a)	Circuit wiring with 2x2.5 sqmm copper multistranded wires (SDB panel to SB) and copper wire 1.5 sqmm green in colour for earth (2x2.5 sqmm + 1x1.5 sqmm) in PVC casing capping as required at site	Mtrs	100	33.82	4.23	3,382.00	423.00	3,805.00
(b)	Circuit wiring with 2x4 sqmm copper multistranded wires (SDB panel to SB) and copper wire 1.5 sqmm green in colour for earth (2x4 sqmm + 1x1.5 sqmm) in PVC casing capping as required at site	Mtrs	100	59.18	5.92	5,918.00	592.00	6,510.00
(c)	Circuit wiring with 2x6 sqmm copper multistranded wires (SDB panel to SB) and copper wire 1.5 sqmm green in colour for earth (2x6 sqmm + 1x1.5 sqmm) in PVC casing capping as required at site	Mtrs	200	83.70	10.15	16,740.00	2,030.00	18,770.00
(d)	Point wiring using PVC casing capping of following points including supply of required materials for wiring purpose using 1.5 sqmm multi strand copper wire etc.in casing capping (Angular holder point/ batten holder point (vertical), LED fitting, ODFT, Bulk head fitting, ceiling fan, Exhaust Fan, Reading light, Bell Etc)	Nos	100	245.17	27.90	24,517.00	2,790.00	27,307.00
(e)	6 Amps 5 pin socket point on fan and light control board	Nos	10	-	475.97	-	4,759.70	4,759.70
(f)	16 Amp & 6pin socket point on separate circuit and board	Nos	10	-	949.40	-	9,494.00	9,494.00
27	Service Tapping:- Supply ,erection ,testing &commissioning of service tapping (Includes B class GI pipe 38/40 mm, clamps, nut bolt etc.) with 10 sqmm multi stranded copper cable for 1 phase supply. All material required for the job shall be supplied by contractor.All materials required for the job shall be supplied by contractor.Prior approval for material shall be taken from competent authority.	Nos	10	-	2,109.30	-	21,093.00	21,093.00

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Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
28	Supply, erection, testing & commissioning of SDB having copper busbar of 50 A capacity made of 14 SWG MS sheet comprising 1x40 A, 415 V, TPN MCB (10 KA) for incoming & 3 x 5A SPN MCB, 3x10 A SPN MCB , 3x16A SPN MCB & 1No. ELCB of 300 mA sensitivity. SDB should confirm to relevant IS standard. Preferable make shall be legrand, seimens , schnieder or equivalent . Prior approval for the materail shall be taken from the competant authority. All materials required for the job shall be supplied by contractor.	Nos	5	-	7,617.15	-	38,085.75	38,085.75
29	Supply, Installation, Testing & Commissioning of out door type weather proof LT Switch board as under:- (1) Incoming, 63 Amp MCCB,4 pole- 2Nos (2) Out going 40A, MCCB, 2Pole- 8Nos (3) Energy Meter Housing- 6 Nos (4) HRC Fuse 32/40 Amp -06 Nos (5) 200A Bus bar for each phase & neutral with Indication lights cable glands and earthing stud etc.	Nos	1	59,347.83	6,594.20	59,347.83	6,594.20	65,942.03
30	Supply, Installation, Testing & Commissioning of out door type weather proof LT Feeder Pillar as under:- (i) incoming MCCB 100A, 4 pole, 35kA, :- 2 No (ii) Outgoing MCCB 63A, 4 pole, 25kA, :- 2 Nos (iii) Outgoing MCB 40A,4Pole, 16kA :- 2 Nos (iv) Outgoing MCB 32A Double pole ,10kA :- 2 Nos (v) Sleeved/Epoxy coated copper bus-bar 200 A (vi) Indication lights	Nos	1	68,478.27	7,608.70	68,478.27	7,608.70	76,086.97
31	Supply, Installation, Testing & Commissioning of out door type weather proof LT Feeder Pillar as under:- (i) incoming MCCB 125A, 4 pole, 35kA :- 2 No (ii) Outgoing MCCB 63A, 4 pole, 25kA :- 4 Nos (iii) Outgoing MCB 40A, 4 pole, 16kA :- 2 Nos (iv) Outgoing MCB 32A, DP, 10kA :- 4nos (v) Sleeved/Epoxy coated copper bus-bar 250 A (vi) Indication lights	Nos	5	84,913.06	9,434.78	4,24,565.30	47,173.90	4,71,739.20
32	Supply, Installation, Testing & Commissioning of out door type weather proof LT Feeder Pillar as under:- (i) Incoming MCCB 250 A, 4 pole 35kA :- 2 No (ii) Outgoing MCCB 125 A, 4 pole 35kA :- 2 Nos (iii) Outgoing MCCB 63 A, 4pole 25kA :- 4 Nos (iv) Outgoing MCB 40 Amps, 4 pole 16kA :- 4 Nos (v) Outgoing MCB 32 Amps ,DP 10 KA :- 4 Nos (vi) Sleeved/Epoxy coated copper bus-bar 400 A (vii) Indication lights	Nos	5	1,05,000.01	11,666.67	5,25,000.05	58,333.35	5,83,333.40

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Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
33	Supply, Installation, Testing & Commissioning of out door type weather proof LT distribution board as under:- (i) Incoming:- MCB 125 Amp, 4POLE:- 1 No. (ii) Outgoing:- (a) 4 pole MCB 63 Amp with ELCB 300 mA:- 2 No. (b) ELCB 30 mA :- 4 Nos. (c) MCB 32 Amp, 2 Pole:- 4 Nos. (d) MCB 20 Amp, 2 Pole:- 4 Nos. (e) MCB 6 Amp, 2 Pole:- 4 Nos.	Nos	1	36,521.74	4,057.97	36,521.74	4,057.97	40,579.71
34	Supply ,installation,testing & commissioning of Timer panel Suitable for 15 KW load (three phase) including contactor, MCB cable glands, terminal block and locking arrangement.	No	2	16,472.82	1,830.32	32,945.64	3,660.64	36,606.28
35	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.	No	4	76,222.60	16,470.39	3,04,890.40	65,881.56	3,70,771.96
36	Earthing with 3 meter long, 50 mm dia, G.I. pipe class 'B' earth electrode, adding the charcoal or coke and salt, providing masonry enclosure and cover plate with lifting arrangement etc. including connections with 4 mm G.I. wire from earth electrode to switch board / electrical equipment as required.	No.	40	3,849.83	604.81	1,53,993.20	24,192.40	1,78,185.60
37	Supply and laying 25mmx6mm G.I. strip at not less than 0.50 meter below ground or in recess as required.	Mtr.	100	85.78	15.39	8,578.00	1,539.00	10,117.00
38	Supply and connecting of GI earth continuity wire of 6/8 SWG for providing of earth inter connection to the cable	Mtr.	800	23.10	24.19	18,480.00	19,352.00	37,832.00
39	Supply, 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:							
(a)	80 mm dia	Mtr.	250	903.91	140.75	2,25,977.50	35,187.50	2,61,165.00
(b)	150 mm dia	Mtr.	250	2,071.72	326.60	5,17,930.00	81,650.00	5,99,580.00
40	Drilling of horizontal bore below the track/road by pushing method by means of HDD machine for laying of Pipe	Mtr.	200	-	3,437.44	-	6,87,488.00	6,87,488.00
41	Supply and laying of HDPE pipe DWC/Split DWC type, of size 160 mm outer dia, Grade PN8, PE100, ISI marked (either single piece of full round or two half round split pieces set), under the Railway track/ road etc. digging of trench and back filling with excavated earth after laying of pipe and making good the damages as required.	Mtr.	400	744.50	18.70	2,97,800.00	7,480.00	3,05,280.00
42	Supply and installation of 1X20W LED tube light fitting complete with LED lamp similar to Philips Model No-TMC 501 P1xT-LED22WP3241 or equivalent as approved by engineers with 3x1.5sqmm FRLS PVC insulated multistranded copper cables as instructed & earthing etc as required. Make-Havells,Bajaj,philips or Equivalent	No	150	1,354.69	-	2,03,203.50	-	2,03,203.50

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
43	Supply , erection , testing and commissioning of 9W or equivalent LED Bulb including fitting, colour temp.6500K(cool day light) of ISI approved make. Preferable make shall be Bajaj, Crompton Greaves, Philips or similar. Prior approval for material shall be taken from competent authority. All materials required for the job shall be supplied by contractor.	Nos	50	97.23	12.69	4,861.50	634.50	5,496.00
44	Supply, erection, testing & commissioning of ceiling fan 1400 mm sweep including connection the down rods of standard length (up to 30 cm) with3x 1.5 sqmm PVC insulated copper (including PVC conduit) etc as required. Preferable make shall be Bajaj, Crompton Greaves, Philips or similar. Prior approval for material shall be taken from competent authority.	No	40	2,753.50	432.16	1,10,140.00	17,286.40	1,27,426.40
45	EXHAUST FAN 300 MM SWEEP : Supply, erection, testing & commissioning of exhaust fan 300 mm sweep (Energy Effcent) including making opening for exhausted air (if required) and plastering. Fixing is to be done in the wall using required fasteners, thier grouting and then connection is to be given from ceiling rose to this fan using cable of 1.5 Sqmm size. Preferable make shall be Bajaj, Crompton Greaves, Philips or similar. Prior approval for material shall be taken from competent authority. All materials required for the job shall be supplied by contractor.	No	10	4,085.16	638.89	40,851.60	6,388.90	47,240.50
46	Supply, Installation, testing and commissioning of hot dipped galvanised, high mast system complete with all accessories, foundation, carriage arrangement suitable for luminaries symmetrically arranged & control gear boxes and lightning finial etc. twin dome aviation obstruction lights, control panel, multi core flexible copperconductor cable, connection to earthing system and fencing panel as per requirement (a) 16 Meter high mast system with 6 nos. 2x 160 watts LED lamp & luminaries	Job.	4	3,31,892.02	52,329.63	13,27,568.08	2,09,318.52	15,36,886.60
47	Supply, installation, testing and commissioning of submersible pump set suitable to operate on 3 phase, 415V, 50 Hz AC supply along with control panel etc. complete for supplying water at suitable discharge and head as per site requirement.			-	-	-	-	
(a)	5 HP pump set	Job.	2	97,905.29	9,683.42	1,95,810.58	19,366.84	2,15,177.42
48	Supply, erection, testing & commissioning of 3 pole, 11 kV, 400 amps, gang operated switch complete with drop out fuses etc. as required.	No	2	41,168.30	7,533.63	82,336.60	15,067.26	97,403.86
49	Provision for execvation of pit, Foundation casting and Supply , erection and commisioning of double pole structure by 2 nos. of RSJ pole 100x116 mm -11 Mtrs long with all associated fitting /accessories etc complete in all respect.	No	3	63,782.86	7,087.08	1,91,348.58	21,261.24	2,12,609.82
50	Excavation of pit , foundation casting and supply & erection of RSJ Pole/Strut 100x116mm - 11Mtrs long with all associated fitting /accessories etc complete in all respect.	Nos.	6	31,891.43	3,543.96	1,91,348.58	21,263.76	2,12,612.34
51	Supply and fixing double pole structure by 2 nos H-Beam, 15 mtr height 152x 152mm with all accessories include concreting	Set	8	1,08,952.96	12,106.11	8,71,623.68	96,848.88	9,68,472.56
52	Supply & fixing single pole 1no H-Beam 15 Mtr 152 x152 mm with all accessories include concreting	Set	10	54,476.48	6,053.05	5,44,764.80	60,530.50	6,05,295.30
53	Supply and fixing double pole structure by 2 nos H-Beam, 13 mtr height 152x 152mm with all accessories include concreting	Set	12	92,566.55	10,285.27	11,10,798.60	1,23,423.24	12,34,221.84
54	Supply and fixing double pole structure by 2 nos H-Beam, 11 mtr height 152x 152mm with all accessories include concreting	Set	4	78,325.62	8,702.66	3,13,302.48	34,810.64	3,48,113.12

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Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
55	Supply & fixing single pole 1no H-Beam 11Mtr 152 x152 mm with all accessories include concreting	Set	8	39,162.81	4,351.33	3,13,302.48	34,810.64	3,48,113.12
56	Supply & fixing single pole 1no H-Beam 13Mtr 152 x152 mm with all accessories include concreting	Set	70	46,282.85	5,142.63	32,39,799.50	3,59,984.10	35,99,783.60
57	Supply, laying and fixing of G.I. earth coil of 4mm dia GI wire having 120 turns of nearly 50mm dia and 3Mtr long tail in existing pit duly earthed with pole etc complete as required as per specification.	Nos.	70	318.70	-	22,309.00	-	22,309.00
58	Supply & erection of overhead mains with AAAC conductor of following size			-	-	-	-	
(a)	Size-7/3.15 , Rabbit (50 Sqmm)	Mtrs	300	88.77	8.45	26,631.00	2,535.00	29,166.00
(b)	Size-7/3.81, Raccon (80 Sqmm)	Mtrs	300	131.04	12.69	39,312.00	3,807.00	43,119.00
(c)	Size-7/4.26, Dog (100 Sqmm)	Mtrs	12000	143.72	16.91	17,24,640.00	2,02,920.00	19,27,560.00
59	Supplying & drawing/laying of PVC insulated XLPE aerial bunch power cable conductor H2/H4 grade aluminium solid/stranded conforming to IS-7098 Part-II, Alu. alloy messenger of approved make in air with necessary material as per specification of required size as mentioned below – 11 kV Grade Arial Bunch Cable:			-	-	-	-	
(a)	3x95 + 1x80 Sqmm	Mtrs	200	1,133.62	113.36	2,26,724.00	22,672.00	2,49,396.00
(b)	3x70 + 1x70 Sqmm	Mtrs	200	1,026.04	102.61	2,05,208.00	20,522.00	2,25,730.00
60	Supplying, drawing and testing of XLPE insulated covered aluminium conductor of approved make, stringing, making off complete with binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required and clearing of obstacles (if any) etc. with necessary material as per specification of required size as mentioned below – 99 Sqmm XLPE 33kV Grade	Mtrs	500		801.22		4,00,610.00	4,00,610.00
61	Supply and provision of anti-climb devices with clamps, bolts, nuts complete with all other connected materials and works.	Nos.	70	306.88	76.93	21,481.60	5,385.10	26,866.70
62	Supply and provision of Danger Boards in Hindi / English / and Regional language on enamelled coated steel plate with clamps, Bolts and Nuts complete with all other connected materials and works.	Nos.	70	306.88	76.93	21,481.60	5,385.10	26,866.70
63	Supply and fixing of 3 nos of 11KV HT Disc insulators with metal parts complete with all accessories etc	Set	80	336.48	84.54	26,918.40	6,763.20	33,681.60
64	Supply and fixing of 3 no of 11KV HT pin insulators with metal parts complete with all accessories etc	Set	30	180.07	44.81	5,402.10	1,344.30	6,746.40
65	Supply, installation, testing & commissioning of outdoor type, single side /Double side Glow sign boards/Pictorial signage boards with suspension/side mounting/wall mounting type arrangements as required. (Payment for Double sided glow sign board shall be made @ 150% of the rate of single sided glow sign boards)	Sq ft	200	477.24	71.47	95,448.00	14,294.00	1,09,742.00
66	Supply,fixing testing and commissioning of LED based station name board in English/Hindi characters in RGB colour completed with all connected accessories. The complete board shall confirm to RDSO specifications No.RDSO/PE/SPEC/TL/ 0086-2009 (Rev '0') (August 2009) with latest modification/ revision and also specification No: GTL/E/M/SPEC/LED/10/1	Nos	4	1,58,762.16	39,689.74	6,35,048.64	1,58,758.96	7,93,807.60
67	Supply & fixing and connecting of 24 Hours Programmable Time switch alongwith MCB, contactor in sheel sheet ircon box for the circuits of lighting & fans/aircirculators etc.	Nos	5	6,736.23	-	33,681.15	-	33,681.15

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
68	Co-ordination/ liasoning and chasing with State Utility Company for availing new electrical connection/ augmentation of sanctioned load at stations, level crossings etc. including applying for load, collection of estimates for loads, modification of power line crossings, arranging payment from RVNL, depositing payment to State Utility Company, arranging release of load & other related works, payment to be made to SEB for new connection, load augmentation, modification of power line crossings etc. shall be made by RVNL.	Each Location	10	-	11,406.77	-	1,14,067.70	1,14,067.70
69	Supplying and erection of galvanised stay set for 11 /33 KV over head lines complete with 19/ 20 mm dia X 1.8 metres long stay rod, anchor plate of size 45 cm X 45 cm X 7.5 mm thick, thimble, stay clamps, turn buckle (20 mm X 600 mm), 7/ 4.00 mm dia G.I. stay wire and 11 KV strain insulator etc in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required	No	15	-	4,269.32	-	64,039.80	64,039.80
70	Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.	Set	15	1,936.84	215.58	29,052.60	3,233.70	32,286.30
71	Supplying and erection of nonlinear resistor type lightning arrestor suitable for 3 wire, 33 KV overhead lines with rated voltage 30 KV (rms) with a nominal discharge current rating of 10 KA (station class) and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.	Set	5	13,010.87	1,445.65	65,054.35	7,228.25	72,282.60
72	Supply & Erection of 33 kv HT pin insulator with metal part completed with all accessories as required	Set	70	549.52	-	38,466.40	-	38,466.40
73	Supply & Erection of 33 kv HT Disc insulator with metal part completed with all accessories as required	Set	20	1,910.62	-	38,212.40	-	38,212.40
74	Dismantling of erected pole/overhead conductor, GI wire, cross arm brackets, insulators, stay,luminary etc including accountal, stocking, and handing over the released materials to railway's authorized official as instructed by the Engineer and making temporary arrangements if required	No	50	-	1,082.05	-	54,102.50	54,102.50
75	Cable termination of existing cables including cost of supply and fixing. crimping lugs, double compression brass glands, insulation tape, etc. complete as per specifications and as required.			-	-	-	-	
(a)	2 Core 70 sq.mm	Set	20	470.54	117.64	9,410.80	2,352.80	11,763.60
(b)	2 Core 150 sq.mm	Set	20	509.76	127.44	10,195.20	2,548.80	12,744.00
(c)	4 Core 16 sq.mm	Set	20	313.70	78.42	6,274.00	1,568.40	7,842.40
(d)	4.0 Core 35 sq.mm	Set	20	392.12	98.03	7,842.40	1,960.60	9,803.00
(e)	4.0 Core 70 sq.mm	Set	10	392.12	98.03	3,921.20	980.30	4,901.50
(f)	4.0 Core 120 sq.mm	Set	10	627.39	156.85	6,273.90	1,568.50	7,842.40
(g)	4.0 Core 185 sq.mm	Set	10	784.24	196.06	7,842.40	1,960.60	9,803.00
(h)	4.0 Core 300 sq.mm	Set	10	1,097.94	274.48	10,979.40	2,744.80	13,724.20
(i)	4.0 Core 400 sqmm	Set	10	1,490.06	372.51	14,900.60	3,725.10	18,625.70
76	Supply & fixing of wall mounted fan 400mm sweep	Nos	10	5,605.96	245.22	56,059.60	2,452.20	58,511.80

Sr. No.	Description of Items	Unit	BOQ Qty	Rate with 18% GST		Amount		
				Supply	Erection	Supply	Erection	Total
77	Supply & erection of structure bond	Nos	50	633.14	138.79	31,657.00	6,939.50	38,596.50
78	Supply & erection of all types of longitudinal bonds	Nos	10	416.35	138.79	4,163.50	1,387.90	5,551.40
79	Suppy & erection of all transverse/ inter connection bond, Z bond, special bond and other bonds	Nos	20	559.18	138.79	11,183.60	2,775.80	13,959.40
80	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 meters lead as per direction of engineer in charge. Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	Cum	15	-	2,386.30	-	35,794.50	35,794.50
81	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer - in - charge.	Cum	10	-	3,481.29	-	34,812.90	34,812.90
82	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross-sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	Sq. mtr	50	-	1,124.60	-	56,230.00	56,230.00
83	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminiare having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminiare comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347i/c connection wire, testing etc. to complete the job. 60Watt, color temp 3000-6500k as required	Each	50	9,288.96		4,64,448.00		4,64,448.00
	Total							4,37,89,024.20

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Balance General Electrical Works in Katni-Singrauli Doubling Project

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Schedule -B						
Technical Consultants & Site Facilities						
BOQ Item No.	Description	Unit	Personnel/ Qty required	Months	BOQ rate	Total Amount (In Rs)
A	Technical Consultant					
1	Electrical Expert	Man - months	1	9	1,08,850.26	₹ 9,79,652.34
2	Supervisor electrical	Man - months	2	9	83,002.07	₹ 14,94,037.26
3	Tower Wagon Driver	Man - months	1	9	83,002.07	₹ 7,47,018.63
Total (a)						₹ 32,20,708.23
B	Site Facilities					
1(a)	Providing road vehicles for the use of Engineer/ Employer Tata Sumo, Bolero, Scorpio, or similar SUV upto 3000KM in one month and extra will be payable as per 1(c)	Vehicle Month	2	9	59,559.01	₹ 10,72,062.18
1(b)	Providing road vehicle for the use of Employer/ Project Head Innova, Scorpio or Similar SUV upto 3000KM in one month and extra will be payable as per 1(c)	Vehicle Month	1	9	98,859.64	₹ 8,89,736.76
1(c)	Extra for running and maintenance of every running KM over and above 3000KM	KM	10000	18.63		₹ 1,86,300.00
Total (a)						₹ 21,48,098.94
Grand Total (A+B)						₹ 53,68,807.17

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