

No. IRCON/ELECT/2065/KSDP-RE/VST-BARA/05 / 646

Dated: 12.08.2023

To,
M/s Competent Electric Systems,
G-29, Industrial Estate,
J.K. Road, Govindpura,
Bhopal, M.P.-462023
E-mail: competentelectric@gmail.com

LETTER OF ACCEPTANCE

Sub: Design, Supply, Installation, Testing & commissioning of 25 KV, AC, 50Hz, single phase Railway Electrification work of Vijaysota – Bara Doubling section and Katangikhurd – Jhalwara chord line in connection to Katni Singrauli Doubling Project of West Central Railway.

Ref: i) e-procurement notice no.- IRCON/ELECT/2065/KSDP-RE/VST-BARA/05, dated 20.07.2023
ii) Your offer dated 01.08.2023
iii) Your letter no. CES/IRCON/2065/05/01, dated 10.08.2023

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. 10,37,05,526.92/-** (Ten Crores Thirty-Seven Lakhs Five Thousand Five Hundred Twenty-Six Rupees & Ninety Two Paise Only), i.e. 3.10% above estimated cost of Rs. 10,05,87,320/-, 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 25 KV, AC, 50Hz, single phase Railway Electrification work of Vijaysota – Bara Doubling section and Katangikhurd – Jhalwara chord line 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-VI of the tender documents issued to you and submitted by you with your offer.

2.0 CONTRACT AGREEMENT: (SCC clause - 15)

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.

3.0 COMMENCEMENT OF CONTRACT: (SCC clause - 31)

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

(CIN –L45203 DL1976 GOI008171)

Regd. Office: C-4, District Centre, Saket, NEW DELHI – 110 017

Tel: 011- 2956666, Fax –011-26522000, 26854000.



4.0 COMPLETION PERIOD:

The work is required to be completed within 8 (Eight) months from the date of issue of Letter of Acceptance (LOA) as per clause-32 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 33 of SCC.

6.0 TAXES, DUTIES & LEVIES:

Taxes, duties & levies shall be as per clause 34 of SCC.

7.0 PAYMENT TERMS: (SCC clause - 40)

SN	Description	Payment in Percentage
1	Payment of Design & Drawing as per BOQ Schedules shall be as under:	
a)	After completion of survey work, preparation, submission & approval of complete Design & drawing (LOP, CSD, SED, Switching stations, sectioning diagram, bonding plan, TWRs, profile drawings etc.) along with submission of distribution copies as per contract condition.	80%
b)	On preparation, submission and approval of As Erected Drawings along with submission of distribution copies as per contract condition.	20%
	Total	100%
2	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%
3	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%

4	Payment against work done under power block	No payment against power block shall be made if sanctioned power block is more than 4 hours in a single block, as certified by the engineer
5	Payment against watching and guarding of OHE (Non-energized) along the track	100% payment shall be made on monthly basis on actual attendance of security guards as decided and duly certified by the engineer.

Documents required for release of Schedule- payment are as per clause 40 of SCC.

8.0 MODE OF PAYMENT AND TAX DEDUCTION AT SOURCE: (SCC clause - 41)

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 40 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 - 11)

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) on the Performa annexed as Annexure-XI of the Tender document from any scheduled Bank for an amount of 5% (Five percent) of the contract value i.e. 51,85,277/-. The performance security and retention money shall be as per clause 11 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 12 of SCC.



IRCON INTERNATIONAL LTD.



(A Govt of India Undertaking)

Katni- Singrauli Doubling Project (RE Dept.), 1st Floor, Above Maruti Suzuki Show room,

Near Jhinhari Police Station, NH-7, Jabalpur Road, Katni-483501

E-Mail – rekss.5031@ircon.org

11.0 QUANTITY VARIATION:

Quantity variation is applicable as per SCC clause 55 & 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 56 of SCC.

13.0 PRICE ADJUSTMENT:

Not Applicable.

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

(R. K. Singh)

Chief General Manager/Elect.



BOQ for LOA No. IRCON/ELECT/2065/KSDP-RE/VST-BARA/05, of M/s Competent Electric Systems

Railway Electrification Of VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY

SUMMARY

Sr. No.	Sch. No.	Description of Schedule	Amount (Rs.)
1	16000	RE General (OHE)	₹ 18,34,960.51
2	19000	OHE Ferrous other than steel structure & SPS	₹ 1,62,72,446.61
3	20000	OHE Non Ferrous "A"	₹ 3,93,73,570.52
4	21000	OHE Non Ferrous "B" (OHE)	₹ 27,67,716.91
5	21000	OHE - Non Ferrous "B" (PTFE)	₹ 14,34,989.44
6	30000A	Common Schedule, Galv. Steel Structur (OHE)	₹ 1,98,41,466.59
7	30000B	Concrete for foundation (OHE)	₹ 68,33,391.08
8	30000C	Misc Common Items (OHE)	₹ 26,35,210.97
9	-	Buried Rail Work	₹ 3,80,608.00
10	-	Tools & Plants (OHE & SCADA)	₹ 22,55,239.00
11	-	General electrical work for Auxiliary Transformer	₹ 58,32,907.94
12	-	Road vehicles to be provided by the contractor	₹ 11,24,812.30
Total Amount			₹ 10,05,87,320.00
Contractor Quoted Above			3.10%
Total Amount			₹ 10,37,05,526.92



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Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY									
Schedule 16000									
RE- General (OHE)									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
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	18	1,982.57	28,740.90	₹ 35,686.28	₹ 5,17,336.12	₹ 5,53,022.40
16002	OHE-2	Supply, Erection & Termination of large Span wire (130 sq.mm) including its fittings with insulators:			0.00	0.00			
	(a)	With Porcelain Insulators 1050mm CD	Mtr	750	1,144.37	71.05	₹ 8,58,273.75	₹ 53,286.00	₹ 9,11,559.75
	(b)	Extra on erection under Power Block	Mtr	750	0.00	71.05	₹ -	₹ 53,286.00	₹ 53,286.00
16004	OHE-4	Supply and Erection of materials for Termination of all aluminium 25 KV feeder conductor single (spider) including feeder wire			0.00	0.00			
	(a)	With Porcelain Insulators 1050mm CD	Mtr	150	981.07	234.87	₹ 1,47,160.85	₹ 35,229.75	₹ 1,82,390.60
	(b)	Extra on erection under Power Block	Mtr	50	0.00	234.87	₹ -	₹ 11,743.25	₹ 11,743.25
16011	OHE-10	Modification to existing Overhead Equipment	Mtr	1200	0.00	43.42	₹ -	₹ 52,104.72	₹ 52,104.72
	OHE-10(a)	Extra for modification to existing Overhead Equipment under power block:	Mtr	1200	0.00	43.42	₹ -	₹ 52,104.72	₹ 52,104.72
16015	OHE-13	Loading/Unloading, transportation and handing over of all type of materials etc. (other than contractor material)-considering 25 km away from site for 10 MT	Metric Tonne KM	250	0.00	75.00	₹ -	₹ 18,749.08	₹ 18,749.08
Total Amount									₹ 18,34,960.51



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BILL OF QUANTITY									
Schedule 19000									
OHE - Ferrous other than steel structures and SPS									
Item No	SOR Item	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
19001	OHE-16	Supply and Erection of a guy rod assembly.	Each	55	12,365.25	1,330.27	₹ 6,80,088.84	₹ 73,164.67	₹ 7,53,253.52
	(a)	Extra on erection under Power Block	Each	11	0.00	1,330.27	₹ -	₹ 14,632.93	₹ 14,632.93
19003	OHE-18	Supply and Erection of bracket assembly with insulators			0.00	0.00			
	(a)	With Porcelain stay & bracket Insulators 1050mm CD	Each	330	29,522.28	1,145.72	₹ 97,42,353.85	₹ 3,78,088.89	₹ 1,01,20,442.74
	(c)	Extra on erection under Power Block	Each	66	0.00	1,145.72	₹ -	₹ 75,617.78	₹ 75,617.78
19004	OHE-19	Supply and Erection of regulating equipment (3 pulley type) with counter weight assembly suitable for 2200 Kgf conventional OHE	Each	30	97,427.23	4,956.92	₹ 29,22,817.03	₹ 1,48,707.74	₹ 30,71,524.77
	(a)	Extra on erection under Power Block	Each	6	0.00	4,956.92	₹ -	₹ 29,741.55	₹ 29,741.55
19005	OHE-20	Supply and Erection of material for termination of double Overhead Equipment conductor			0.00	0.00			
	(a)	With Porcelain Insulators 1050mm CD	Each	36	20,696.07	1,251.32	₹ 7,45,058.46	₹ 45,047.60	₹ 7,90,106.06
	(c)	Extra on erection under Power Block	Each	7	0.00	1,251.32	₹ -	₹ 8,759.26	₹ 8,759.26
19006	OHE-21	Supply and Erection of anti-creep with galvanized steel wire			0.00	0.00			
	(a)	With Porcelain Insulators 1050mm CD	Each	12	48,569.84	3,517.11	₹ 5,82,838.03	₹ 42,205.34	₹ 6,25,043.37
	(c)	Extra on erection under Power Block	Each	3	0.00	3,517.11	₹ -	₹ 10,551.33	₹ 10,551.33
19007	OHE-22(a)	Supply & erection of structure bond	Nos	600	626.44	137.32	₹ 3,75,862.50	₹ 82,389.06	₹ 4,58,251.56
	OHE-22(b)	Supply & erection of all types of longitudinal bonds	Nos	120	411.95	137.32	₹ 49,433.44	₹ 16,477.81	₹ 65,911.25
	OHE-22(c)	Supply & erection of transverse/ inter connection bond, Z bond, special bond and other bonds	Nos	360	553.27	137.32	₹ 1,99,177.06	₹ 49,433.44	₹ 2,48,610.49
		Total Amount							₹ 1,62,72,446.61



BOQ for LOA No. IRCON/ELECT/2065/KSDP-RE/VST-BARA/05, of M/s Competent Electric Systems

Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

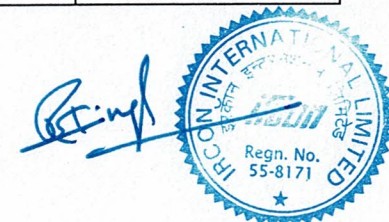
BILL OF QUANTITY									
Schedule 20000									
OHE - Non Ferrous 'A'									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
20001	OHE-23(a)	Supply and Erection of Over Head Equipment i.e. contact & catenary wire (excluding cost of supply of 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	18	0.00	59,053.82	₹ -	₹ 10,62,968.84	₹ 10,62,968.84
	(i)	Extra on erection under Power Block	TKM	4	0.00	29,526.41	₹ -	₹ 1,18,105.66	₹ 1,18,105.66
	(ii)	Extra on manual erection for catenary/contact wire	TKM	18	0.00	14,763.21	₹ -	₹ 2,65,737.73	₹ 2,65,737.73
20002	OHE-23(b)	Supply of contact wire (HDGCC 107/150 Sq.mm) only.	MT	19.00	12,21,366.03	0.00	₹ 2,32,05,954.58	₹ -	₹ 2,32,05,954.58
20003	OHE-23(c)	Supply of cadmium copper catenary wire (65 Sq. mm) only	MT	12.00	12,26,733.64	0.00	₹ 1,47,20,803.71	₹ -	₹ 1,47,20,803.71
		Total Amount							₹ 3,93,73,570.52



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Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY									
Schedule 21000 (OHE)									
OHE - Non Ferrous 'B'									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
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	4	1,20,262.68	6,033.57	₹ 4,81,050.73	₹ 24,134.28	₹ 5,05,185.01
	(c)	Extra on erection under Power Block	Each	3	0.00	6,033.57	₹ -	₹ 18,100.71	₹ 18,100.71
21004	OHE-27	Supply and Erection of 25 KV, 1250A / 1600A, S.P Isolators and with insulator with/without earth contact assembly:	Each	5	1,18,319.10	4,652.09	₹ 5,91,595.51	₹ 23,260.46	₹ 6,14,855.97
	(a)	Extra on erection under Power Block	Each	3	0.00	4,652.09	₹ -	₹ 13,956.28	₹ 13,956.28
21006	OHE-29	Supply and Erection of all types of copper jumpers	Each	90	10,794.49	454.93	₹ 9,71,504.25	₹ 40,943.87	₹ 10,12,448.12
	OHE-29(a)	Extra on erection under Power Block	Each	30	0.00	454.93	₹ -	₹ 13,647.96	₹ 13,647.96
21009	OHE-32 (a)	Supply and Erection of solid copper busbar 18 mm dia including all connectors, bus splice etc.	Mtr	50	5,375.26	223.02	₹ 2,68,763.14	₹ 11,151.01	₹ 2,79,914.14
	(i)	Extra on erection under Power Block	Mtr	25	0.00	223.02	₹ -	₹ 5,575.50	₹ 5,575.50
21011	OHE-34	Dismantling of traction structure, portals, TTC and associated SPS by cutting/removing	MT	10	0.00	1,703.29	₹ -	₹ 17,032.90	₹ 17,032.90
	OHE-34 (a)	Dismantling of traction structure, portals,TTC and associated SPS by cutting under Power Block :	MT	10	0.00	1,703.29	₹ -	₹ 17,032.90	₹ 17,032.90



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Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
21013	OHE-36	Supply and Erection of Retro-reflective type boards- structure number plates, sigma boards, 25KV AC OHE danger board/danger board for height gauge, public, staff caution board, different types of boards required to be provided as per ACTM and special boards required for commissioning of OHE/SWSs.	Each	360	566.36	152.96	₹ 2,03,890.21	₹ 55,064.34	₹ 2,58,954.55
	(a)	Extra on erection under Power Block	Each	72	0.00	152.96	₹ -	₹ 11,012.87	₹ 11,012.87
		Total Amount							₹ 27,67,716.91



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Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY									
Schedule 21000									
OHE - Non Ferrous 'B' (PTFE)									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
21003	OHE-26	Supply and Erection of PTFE type short neutral section assembly as per latest RDSO specification.	Each	1	14,19,251.22	7,813.85	₹ 14,19,251.22	₹ 7,813.85	₹ 14,27,065.07
	(a)	Extra on erection under Power Block	Each	1	0.00	7,924.38	₹ -	₹ 7,924.38	₹ 7,924.38
Total Amount									₹ 14,34,989.44



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Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY									
Common Schedule of OHE									
Schedule 30000A									
Galvanised Steel Structures									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
30009	CS-9	Supply and erection of all types of galvanised Steel Structures, Small Parts Steel etc.	MT	130	1,47,639.88	3,439.16	₹ 1,91,93,184.92	₹ 4,47,091.05	₹ 1,96,40,275.97
	(a)	Extra on erection under Power Block	MT	26	0.00	3,439.16	₹ -	₹ 89,418.21	₹ 89,418.21
	(b)	Extra rate on Manual Erection	MT	65	0.00	1,719.58	₹ -	₹ 1,11,772.41	₹ 1,11,772.41
Total Amount									₹ 1,98,41,466.59
Schedule 30000B									
Concrete for Foundation (OHE)									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
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 mufing including nominal reinforcement wherever required as per RDSO drawings.	CUM	960	5,073.37	1,641.12	₹ 48,70,437.98	₹ 15,75,478.27	₹ 64,45,916.26
30007A	CS-7 (a)	100% Extra Payment over CS-6(a) , (b) and (c) for foundation and plinth in Hard Rock/heavy concrete requiring chiseling/Blasting/machine breaking	CUM	96	0.00	1,641.12	₹ -	₹ 1,57,547.83	₹ 1,57,547.83
30007B	CS-7 (b)	50% Extra Payment over CS-6(a) , (b) and (c) for foundation and plinth in Soft Rock/Hard soil requiring chiseling/Blasting/machine breaking and in Black Cotton Soil	CUM	96	0.00	821.05	₹ -	₹ 78,821.16	₹ 78,821.16
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	20	0.00	7,555.29	₹ -	₹ 1,51,105.83	₹ 1,51,105.83
Total Amount									₹ 68,33,391.08



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Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
Schedule 30000C									
Miscellaneous Common Items of OHE									
Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
30005A	CS-5(a)	Supply, erection, oil filtration, testing & commissioning of 25KV/240V 10 KVA Auxiliary (LT) Supply Transformers oil type with DO fuse switch, anti climbing device, Arcing horns, pedestal insulators, copper jumper and earth electrode etc.							
	(i)	With Porcelain Insulators 1050mm CD	Set	2	1,36,553.99	13,911.56	₹ 2,73,107.98	₹ 27,823.12	₹ 3,00,931.10
	(iii)	Extra on erection under Power Block	Set	1	0.00	13,911.56	₹ -	₹ 13,911.56	₹ 13,911.56
30005A	CS-5(b)	Supply, erection, oil filtration, testing & commissioning of 25KV/240V 25 KVA Auxiliary (LT) Supply Transformers oil type with DO fuse switch, anti climbing device, Arcing horns, pedestal insulators, copper jumper and earth electrode etc.			0.00	0.00			
	(i)	With Porcelain Insulators 1050mm CD	Set	4	4,04,360.36	30,482.46	₹ 16,17,441.44	₹ 1,21,929.85	₹ 17,39,371.29
	(iii)	Extra on erection under Power Block	Set	2	0.00	30,482.46	₹ -	₹ 60,964.92	₹ 60,964.92
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	10	0.00	5,044.76	₹ -	₹ 50,447.61	₹ 50,447.61
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	2	0.00	2,812.51	₹ -	₹ 5,625.01	₹ 5,625.01
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	1	0.00	25,430.03	₹ -	₹ 25,430.03	₹ 25,430.03
30019	CS-19	Hiring charges for semi skilled Labour with proper tools for working during Non interlocking period.	Man-Days	25	0.00	396.71	₹ -	₹ 9,917.83	₹ 9,917.83
30021	CS-21	Extra Earthwork in filling at SWS, TSS and OHE Foundations	cum	50	209.22	51.32	₹ 10,460.86	₹ 2,565.86	₹ 13,026.72
30025	CS-25	Watching and guarding of OHE along the track after EIG for 12 hrs each day on administrative reasons.			0.00	0.00			
	(a)	Person with arms.	Man-days	30	797.37	0.00	₹ 23,921.24	₹ -	₹ 23,921.24
	(b)	Person without arms.	Man-days	50	725.33	0.00	₹ 36,266.58	₹ -	₹ 36,266.58



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Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Total Amount
					Supply	Erection	Supply	Erection	
30026	CS-26	Supply & erection of 25 KV support /Post insulators with fittings and fasteners	Each	10	4,514.82	169.73	₹ 45,148.22	₹ 1,697.34	₹ 46,845.56
	CS-9T	25 kV 9 Ton Insulator including fittings	Each	25	7,547.20	1,163.05	₹ 1,88,680.06	₹ 29,076.18	₹ 2,17,756.24
	(i)	Extra on erection under Power Block	Each	15	0.00	1,163.05	₹ -	₹ 17,445.71	₹ 17,445.71
33032		Earthing with 3 meter long, 50mm dia, G.I. pipe class 'B' earth electrode, adding the charcoal or coke and salt/ chemical earthing, 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	20	3,169.31	498.17	₹ 63,386.16	₹ 9,963.41	₹ 73,349.57
Total Amount									₹ 26,35,210.97



BOQ for LOA No. IRCON/ELECT/2065/KSDP-RE/VST-BARA/05, of M/s Competent Electric Systems

Buried Rail Work								
Sr. No.	Description	Unit	Qty	Rate		Amount (Rs.)		Total Amount (In Rs)
				Supply	Erection	Supply	Erection	
BR-1	Supply, erection, testing & commissioning of buried earth rail, including supply and erection of earth leads as per site requirement. (Rail will be provided by IRCON)	Set	4	76,121.60	19,030.40	₹ 3,04,486.40	₹ 76,121.60	₹ 3,80,608.00
Total Amount of Rs.								₹ 3,80,608.00

Tools & Plants (OHE & SCADA)								
Sr. No.	Description	Unit	Qty	Rate		Amount (Rs.)		Total Amount (In Rs)
				Supply	Erection	Supply	Erection	
28001	Supply of Tirfor 2.5T/1.5T, ISI marked as per IS: 5604/1984 or latest (Make TRACTEL /TIRFOR or equivalent as approved by Engineer).	Nos	4	17,032.00	0.00	₹ 68,128.00	₹ -	₹ 68,128.00
28002	Supply of Tirfor 5T/3T ISI marked as per IS: 5604/1984 or latest (Make TRACTEL /TIRFOR or equivalent as approved by Engineer).	Nos	4	23,275.00	0.00	₹ 93,100.00	₹ -	₹ 93,100.00
28007	Supply of earthing discharge rod complete suitable for working voltage of 25kV AC traction, fibre glass body screw type in a suitable carry bag as per RDSO specification no ETI/OHE/51(9/87) or latest and as approved by Engineer.	Each	100	17,168.00	0.00	₹ 17,16,800.00	₹ -	₹ 17,16,800.00
SCADA-10	Supply of Spl. SCADA T&P for maintenance as per RDSO Specification no. TI/SPC/RCC/SCADA/0133 (Rev-3) dated 30.07.2021 or latest	Set	1	3,77,211.00	0.00	₹ 3,77,211.00	₹ -	₹ 3,77,211.00
Total Amount of Rs.								₹ 22,55,239.00

General electrical work for Auxiliary Transformer								
Sr. No.	Description	Unit	Qty	Rate		Amount (Rs.)		Total Amount (In Rs)
				Supply	Erection	Supply	Erection	
AT-1	Supply, excavation of trench and laying of 1.1 kV grade LT XLPE insulated armoured, aluminium conductor cable, making good 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	Mtr	5000	576.95	35.36	₹ 28,84,728.00	₹ 1,76,792.00	₹ 30,61,520.00
(b)	2 Core 150 Sq. mm	Mtr	3000	883.96	35.36	₹ 26,51,880.00	₹ 1,06,075.20	₹ 27,57,955.20
AT-2	Junction box 300x300x170 with Al. busbar including 63A/125A fuse for 10 kVA/ 25 kVA AT, neutral link, 2 nos. gland with required size, earthing connection with 8 mm bolt, powder coated paint, dust proof rubber seal, bolt 04 nos. for fixing box etc.	Nos	6	2,014.91	223.88	₹ 12,089.47	₹ 1,343.27	₹ 13,432.74
Total Amount of Rs.								₹ 58,32,907.94



BOQ for LOA No. IRCON/ELECT/2065/KSDP-RE/VST-BARA/05, of M/s Competent Electric Systems

Railway Electrification OF VST-BARA Doubling section & KTKD-JLW Chord line

BILL OF QUANTITY						
Road vehicles to be provided by the contractor						
BOQ Item No.	Description	Unit	Qty	Months	Rate	Total Amount (In Rs)
1(a)	Providing road vehicle for the use of Engineer/Employer Tata Sumo, Bolero, Scorpio or similar SUV (up to 3000 KM in one month extra will be payable in 1(b))	Vehicle Month	2	8	60,755.90	₹ 9,72,094.42
1(b)	Extra for running and maintenance of every running KM over and above 3000KM	KM	10000	-	15.27	₹ 1,52,717.88
Total Amount of Rs.						₹ 11,24,812.30

