

No: IRCON/ELECT/2046/NFR/SVK/RE

Date: 10.01.2023

M/s Zetwerk Manufacturing Businesses Pvt. Ltd.,
The Oriental Towers, No. 461,
1st Floor, 17th Cross Road,
4th Sector, HSR Layout,
Bengaluru, Karnataka-560102
E-mail: info@zetwerk.com
Phone No. 080-46910888

(Kind Attn : Sh. Abhay Adya, T&D BU Head)

(LETTER OF ACCEPTANCE)

Sub: Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR) in connection with Sivok-Rangpo New BG Rail Line Project.

- Ref: 1. e-NIT No. IRCON/ELECT/2046/NFR/SVK/RE, dt. 13.12.2022
2. Corr-I (No. IRCON/ELECT/2046/NFR/SVK/RE, dt. 21.12.2022)
3. Techno-Commercial Bid opened on 28.12.2022
4. Offer No. ZMBPL/IRCON/2022-23/45, dt 26.12.2022 (Bid ID 501835 on CPP portal)

Reference above, the competent authority for and on behalf of Ircon International Limited is pleased to accept your offer for the work of 'Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR) in connection with Sivok-Rangpo New BG Rail Line Project' as per terms & conditions detailed below:

- 1) Total Price: Detailed Bill of Quantity (BOQ) is attached as Annexure-A and as per Annexure-A total value of the order comes out to Rs. 3,62,05,962.61/- (Rupees Three Crore Sixty-Two Lakh Five Thousand Nine Hundred & Sixty-Two and Paise Sixty-One Only) inclusive of all taxes & duties.
- 2) The Earnest Money of Rs. 4,11,000/- (Rupees Four Lakh Eleven Thousand Only) deposited vide transaction no. NEFTIN1ON221221030KQZETWERK-MANUFACTURING BUSINESSES-PR--45505424577-SCBL0036 dated 21.12.2022 has been retained towards security deposit for due and faithful completion of work.
- 3) Taxes, Duties & Levies etc.: The contract prices indicated in Annexure-A is inclusive of all types of taxes, duties and levies imposed by Central/State Govt. and local bodies such as IGST/CGST/SGST/UTGST, Compensation Cess, Labour Cess, Custom duty, royalties and other levies and shall be governed in accordance with clause no. 12 of Special Condition of Contract (SCC) of the Tender Document.
- 4) Date of Commencement of the Contract: Date of issue of this Letter of Acceptance shall be treated as the date of commencement of the contract. The Contractor shall be expected to mobilize to the site of works and commence execution of the works within 10 (ten) days from the date of issue of Acceptance Letter by IRCON as per clause no. 6 of Special Conditions of Contract.

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5) Completion Period:

The work is required to be completed within 04 (Four) months from the date of issue of Letter of Acceptance (LOA) as per milestones mentioned in clause no. 7 of Special Conditions of Contract. In case of any delay in the completion period, the extension of the same shall be dealt as per clause no. 17 (A) & 17(B) of Indian Railways Standard General Conditions of the Contract, April-2022.

6) Performance Security:

In terms of clause no. 15.1(i) of Special conditions of contract M/s Zetwerk Manufacturing Businesses Pvt. Ltd. shall submit Performance Security amounting to 3% of contract value (Rs. 3,62,05,962.61/-) i.e. Rs. 10,86,179/- (Rupees Ten Lakh Eighty-Six Thousand One-Hundred and Seventy-Nine only) in the form of irrevocable Bank Guarantee from a schedule bank in India within 21 days of issue of this LOA to 'Project Head, Ircon International Ltd, Sivok-Rangpo New BG Rail Line Project, Siliguri-734001'. The performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. For further details on performance security & retention money, clause no. 15 of Special conditions of contract may be referred.

7) Contract Agreement:

In terms of clause no. 16 of Special Conditions of Contract (SCC), M/s Zetwerk Manufacturing Businesses Pvt. Ltd. shall enter into a Contract Agreement with 'Chief General Manager/Electrical, Ircon International Ltd, C-4, District Centre, Saket, New Delhi – 110017' within 28 days of issue of this LOA.

This letter will constitute a legal and binding contract between IRCON and M/s Zetwerk Manufacturing Businesses Pvt. Ltd. till such time the formal contract agreement is signed.

This LOA is a brief of essential conditions of the tender. For details, original tender document and corrigendum thereto may be referred. All terms & conditions shall be as per the tender document & subsequent corrigendum issued.

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

For & on behalf of
Ircon International Limited


(Narendra Kumar)
Chief General Manager (Electrical)



Encl: As above

Copy to:

Project Head, Ircon International Ltd, Sivok-Rangpo New BG Rail Line Project, Siliguri-734001
(Email ID : ircon2046@gmail.com)

ANNEXURE-A

BILL OF QUANTITY

Name of work : Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR) in connection with Sivok-Rangpo New BG Rail Line Project
Ref : LOA No. IRCON/ELECT/2046/NFR/SVK/RE, Dt. 10.01.2023

S.No	Description	Amount (INR)
1.01	Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR)	3,10,24,818.00
	Quoted offer @ 16.7% above	51,81,144.61
	Total Value (inclusive of all taxes & duties)	3,62,05,962.61
	(Rupees Three Crore Sixty-Two Lakh Five Thousand Nine Hundred & Sixty-Two and Paise Sixty-One Only).	



Tender Inviting Authority: CGM/ELECTRICAL

Name of Work: Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR)

Contract No: IRCON/ELECT/2046/NFR/SVK/RE/

Name of the Bidder/ Bidding Firm/ Company : Zaiwerk Manufacturing Businesses Private Limited

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	Sl. No.	TEXT #	Item Description	NUMBER #	Quantity	TEXT #	Units	NUMBER #	Estimated Rate Including GST in Rs.	NUMBER #	TOTAL AMOUNT With GST in Rs.	TEXT #	TOTAL AMOUNT In Words
1	1	2	Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR)	3	4	5	6	7					
1.01			Railway Electrification work for Sivok Yard (Remodeling) under North Frontier Railway (NFR)	1	LOT				3,10,24,818.00				INR Three Crore Ten Lakh Twenty Four Thousand Eight Hundred & Eighteen Only
Total in Figures													
Quoted Rate in Figures													
Quoted Rate in Words													
INR Three Crore Sixty Two Lakh Five Thousand Nine Hundred & Sixty Two and Paise Sixty One Only													



Schedule of work/BOQ in connection with RE work for Sivok yard remodeling

SUMMARY-

SR.NO	SCH. NO	SOR/ NON-SOR	DESCRIPTION OF SCHEDULE	Amount including GST	Basic Amount without GST	Amount including GST @ 18%
1	16000	RVNL-SOR-2018	RE General (OHE)	9,29,492	8,29,904	9,79,287
2	19000	RVNL-SOR-2018	OHE Ferrous other than steel structure & SPS	63,19,615	56,42,513	66,58,165
3	20000	RVNL-SOR-2018	OHE Non Ferrous "A"	1,07,26,677	95,77,390	1,13,01,320
4	21000	RVNL-SOR-2018	OHE Non Ferrous "B" (OHE)	8,80,641	7,86,287	9,27,819
5	30000A	RVNL-SOR-2018	Common Schedule, Galv. Steel Structur (OHE)	64,31,700	57,42,589	67,76,255
6	30000B	RVNL-SOR-2018	Concrete for foundation (OHE)	27,64,200	24,68,036	29,12,282
7	30000C	RVNL-SOR-2018	Misc Common Items (OHE)	5,86,114	5,23,316	6,17,513
8	33000	RVNL-SOR-2018	CLS Panel with Associated Item	18,162	16,216	19,135
9	33000A	NON-SOR	CLS Panel with Associated Item	8,33,042	7,05,968	8,33,042
			Total	2,94,89,643	2,62,92,219	3,10,24,818



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	5.00	RVNL SOR 2018 w.e.f. 31.03.2018 2,009.00	RVNL SOR 2018 w.e.f. 31.03.2018 29,124.00		RVNL SOR 2018 10,045.00	RVNL SOR 2018 1,45,620.00	Amount As per RVNL SOR 2018 1,55,665.00
16002	OHE-2	Supply and Erection of large Span wire (130 sq.mm) including its fittings with insulators:								
16003	(a) OHE-3	With Porcelain Insulators 1050mm CD Supply and Erection of materials for Termination of single conductor of overhead equipment or a terminating wire	Mtr	500	885.00	72.00		4,42,500.00	36,000.00	4,78,500.00
16011	(a) OHE-10 OHE-10(a)	With Porcelain Insulators 1050mm CD Modification to existing Overhead Equipment Extra for modification to existing Overhead Equipment under power block:	Each Mtr Mtr	1 2000 2000	11,841.00 - -	1,086.00 44.00 44.00		11,841.00 - -	1,086.00 88,000.00 88,000.00	12,927.00 88,000.00 88,000.00
16015	OHE-13	Loading/Unloading, transportation and handling over of all types of dismantled materials etc. if any (other than contractor material)-considering 40 km away from site for 35 MT (35x40=1400 MT KM)	Metric Tonne KM	1400	-	76.00		-	1,06,400.00	1,06,400.00
		Total Amount						4,64,386.00	4,65,106.00	9,29,492.00



BILL OF QUANTITY
Schedule 19000
OHE - Ferrous other than steel structures and SPS

Item No	SOR Item	Description	Unit	Qty	Rate			Amount		Amount As per RVNL SOR 2018
					Supply RVNL SOR 2018	Erection RVNL SOR 2018		Supply RVNL SOR 2018	Erection RVNL SOR 2018	
19001	OHE-16 (a)	Supply and Erection of a guy rod assembly. Extra on erection under Power Block	Each	40	8,686.00	1,348.00		3,47,440.00	53,920.00	4,01,360.00
19003	OHE-18	Supply and Erection of Bracket Assembly with insulators	Each	6		1,348.00		-	8,088.00	8,088.00
	(a)	With Porcelain stay & bracket Insulators 1050mm CD	Each	160	20,738.00	1,161.00		33,18,080.00	1,85,760.00	35,03,840.00
19004	OHE-19	Supply and Erection of regulating equipment (3 pulley type) with counter weight assembly suitable for 2000 Kg conventional OHE (665 Kg).	Each	20	68,438.00	5,023.00		13,68,760.00	1,00,460.00	14,69,220.00
19005	(a) OHE-20	Extra on erection under Power Block Supply and Erection of material for termination of double Overhead Equipment conductor	Each	4		5,023.00		-	20,092.00	20,092.00
	(a)	With Porcelain Insulators 1050mm CD	Each	28	14,538.00	1,268.00		4,07,064.00	35,504.00	4,42,568.00
19006	(c) OHE-21	Extra on erection under Power Block Supply and Erection of anti-creep with galvanized steel wire	Each	4		1,268.00		-	5,072.00	5,072.00
	(a)	With Porcelain Insulators 1050mm CD	Each	6	34,118.00	3,564.00		2,04,708.00	21,384.00	2,26,092.00
	(b)	Extra provision on Extra Span in Item (a)	Each	10	6,824.00	731.00		68,240.00	7,310.00	75,550.00
	(e)	Extra on erection under Power Block	Each	2		3,564.00		-	7,128.00	7,128.00
19007	OHE-22	Supply and Erection of a structure bond/longitudinal bond/ transverse and special bond::	TKM	5	24,352.00	7,769.00		1,21,760.00	38,845.00	1,60,605.00
		Total Amount						58,36,052.00	4,83,563.00	63,19,615.00



BILL OF QUANTITY

Schedule 20000

OHE - Non Ferrous 'A'

Item No	SOR ITEM	Description	Unit	Qty	Rate			Amount		Amount RVNL SOR 2018
					Supply RVNL SOR 2018	Erection RVNL SOR 2018		Supply RVNL SOR 2018	Erection RVNL SOR 2018	
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	5.00	-	59,841.00		-	2,99,205.00	2,99,205.00
	(ii)	Extra on manual erection for catenary/contact wire	TKM	2.00		14,960.00		-	29,920.00	29,920.00
20002	OHE-23(b)	Supply of contact wire (HDGCC 107/150 Sq.mm) only.	MT	7.61	8,39,189.00	-		63,86,228.29	-	63,86,228.29
20003	OHE-23(c)	Supply of cadmium copper catenary wire (65 Sq. mm) only	MT	4.78	8,39,189.00	-		40,11,323.42	-	40,11,323.42
		Total Amount						1,03,97,552.00	3,29,125.00	1,07,26,677.00



BILL OF QUANTITY
Schedule 21000 (OHE)
OHE - Non Ferrous 'B'

Item No	SOR ITEM	Description	Unit	Qty	Rate		Amount		Amount SOR 2018
					Supply SOR 2018	Erection SOR 2018	Supply SOR 2018	Erection SOR 2018	
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	93,006.00	6,114.00	3,72,024.00	24,456.00	3,96,480.00
	(c)	Extra on erection under Power Block	Each	2		6,114.00	-	12,228.00	12,228.00
21004	OHE-27	Supply and Erection of 25 KV, 1250A, S.P Isolators and with insulator with/without earth contact assembly:	Each	2	95,899.00	6,324.00	1,91,798.00	12,648.00	2,04,446.00
21006	OHE-29	Supply and Erection of all types of copper jumpers	Each	10	8,348.00	461.00	83,480.00	4,610.00	88,090.00
21009	OHE-32 (a)	Supply and Erection of solid copper busbar 18 mm dia including all connectors, bus splice etc.	Mtr	30	4,157.00	226.00	1,24,710.00	6,780.00	1,31,490.00
21011	OHE-34	Dismantling of traction structure, portals,TTC and associated SPS by cutting:	MT	12	0.00	1,726.00	-	20,712.00	20,712.00
	OHE-34 (a)	Dismantling of traction structure, portals,TTC and associated SPS by cutting under Power Block :	MT	5	0.00	1,726.00	-	8,630.00	8,630.00
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	Each	30	438.00	155.00	13,140.00	4,650.00	17,790.00
	(a)	Extra on erection under Power Block	Each	5		155.00	-	775.00	775.00
		Total Amount					7,85,152.00	95,489.00	8,80,641.00



BILL OF QUANTITY
Common Schedule of OHE
Schedule 30000A
Galvanised Steel Structures

Item No	SOR ITEM	Description	Unit	Qty	Rates			Amount		Amount RVNL SOR 2018
					Supply	Erection	Supply	Erection		
					SOR 2018	SOR 2018	SOR 2018	SOR 2018		
30009	CS-9	Supply and erection of all types of galvanised Steel Structures, Small Parts Steel etc.	MT	60	1,03,710.00	3,485.00	62,22,600.00	2,09,100.00	64,31,700.00	
		Total Amount					62,22,600.00	2,09,100.00	64,31,700.00	



Schedule 30000B Concrete for Foundation (OHE)									
Item No	SOR ITEM	Description	Unit	Qty	Rates			Amount	
					Supply	Erection		Supply	Erection
					SOR 2018	SOR 2018		SOR 2018	SOR 2018
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 mugging including nominal reinforcement wherever required as per RDSO drawings.	CUM	350	5,141.00	1,663.00		17,99,350.00	5,82,050.00
									23,81,400.00
30008	CS-8	Providing and laying of Reinforced Concrete for Pier/Column/Pile, Cable Trench and Trench Cover and special designed foundations requiring reinforcement.(Cable trench for Power supply arrangement from AT to CLS Panel & SS Room)	CUM	50	-	7,656.00		-	3,82,800.00
									3,82,800.00
		Total Amount						17,99,350.00	9,64,850.00
									27,64,200.00



Schedule 30000C

Miscellaneous Common Items of OHE

Item No	SOR ITEM	Description	Unit	Qty	Rates		Amount		Amount RVNL SOR 2018
					Supply	Erection	Supply	Erection	
30005B	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.							
	(i)	With Porcelain Insulators 1050mm CD	Set	1	3,34,605.00	33,051.00	3,34,605.00	33,051.00	3,67,656.00
#REF!	CS-12	Supply and erection of Copper Strips for equipment earthing	Mtr	10	1,540.00	163.00	15,400.00	1,630.00	17,030.00
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	-	5,112.00	-	51,120.00	51,120.00
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	18	-	2,850.00	-	51,300.00	51,300.00
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	2	-	25,769.00	-	51,538.00	51,538.00
30026	CS-26	Supply & erection of 25 KV support /Post insulators with fittings and fastener:	Each	10	4,575.00	172.00	45,750.00	1,720.00	47,470.00
		Total Amount					3,95,755.00	1,90,359.00	5,86,114.00



SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 25 KVA AT WITH CLS PANEL WITH ALL RELATED ITEMS

BILL OF QUANTITY

CLS Panel

Schedule 33000A

Galvanised Steel Structures

S.No	Sch No	Item description	Unit	Qty	Unit Rate		Amount (Rs)		Total
					Supply	Erection	Supply	Erection	
1	33020	Supply, erection, testing & commissioning of control and distribution panel for colour light signalling supply in 25 KV AC traction system as per RSDO technical specifications No. TI/SPC/PS/CLS/ 0020 (12/02) With A&C slips No. 1 to 4 or latest, connections as required.	No.	1.00	1,60,590.09	25,222.61	1,60,590.09	25,222.61	1,85,812.70
2	b) 33036	For 25 KVA AT Supply, 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.							
4	c) 33019	2 Core 150 sq.mm for 25 KVA AT 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:	Meter	700.00	883.96	35.36	6,18,772.00	24,752.00	6,43,524.00
5	a) 33019	50 mm dia Supply & Erection of Junction Box 300x300x170 mm with AI Busbar including 63/125 A fuse for 25 kVA AT, Neutral link, 2 nos gland, earthing connection with 8 mm bolt, powder coated paint, dust proof rubber seal, bolt 4 nos for fixing box etc.	Meter	3.00 1.00	422.58 2,014.91	66.40 223.88	1,267.74 2,014.91	199.20 223.88	1,466.94 2,238.79
		Total Amount					7,82,645.00	50,398.00	8,33,042.00



S.No	Sch No	Item description	Unit	Qty	Unit Rate		Amount (Rs)		Amount
					Supply	Erection	Supply	Erection	
BILL OF QUANTITY									
CLS Panel									
Schedule 33000									
S.No	Sch No	Item description	Unit	Qty	Unit Rate		Amount (Rs)		Amount SOR 2018
					Supply SOR 2018	Erection SOR 2018	Supply SOR 2018	Erection SOR 2018	
1	33003 (i)	Wiring for light/ ceiling fan/exhaust fan/call bell/light plug/ group etc. points including circuit wiring, sub main wiring with Fire Retardant (FR), 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	8.00	-	1,556.00	-	12,448.00	12,448.00
2	33003 (ii)	Wiring for power plug point including circuit wiring, sub main wiring with Fire Retardant (FR), PVC insulated, multistranded, copper conductor, single core cable on surface/in recessed 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	2.00	-	2,857.00	-	5,714.00	5,714.00
Total Amount							-	18,162.00	18,162.00



Signature Not Verified

Digitally signed by JAYAKRISHNAN
CHANDRASEKARAN MAIR
Date: 2023.05.09 13:08:20 IST
Location: eProcurement System for
Central PSUs