

इरकॉन इंटरनेशनल लिमिटेड

(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED

A NAVRATNA COMPANY

(A Govt. of India Undertaking)

An integrated Engineering and Construction Company

Project Office: Darlipali STPP, Flat no.405, 4th Floor

Maruti Homes, Behind Smart Bazaar, Jharsuguda, Odisha -768201, Email: ircon.2061@ircon.org



By Speed Post/By Email

IRCON/2061/DSTPP/Pkg-General Electrification work/MGR/Tender/86/4109

Date: 02.03.2024

To,

M/s RASS CONTRACTOR & ENGINEERS,

302, IIIrd Floor, A-14, Devika Chamber RDC,

Raj Nagar, Ghaziabad- 201 001 (U.P.)

Email ID: rass.engineer@gmail.com

Sub: Design, Supply, Installation, Testing & Commissioning of equipment for 2X1000 KVA 33/0.440 KV Distribution Transformer Substation & associated 33 KV & LT Cable laying works, Electrification of various type Service Buildings etc. in connection with Railway Siding of NTPC at Darlipali in Odisha-**Letter of Acceptance (LOA)**.

Ref.: i. e-Tender: IRCON/2061/NTPC Darlipali/General Electricals/01 dated 06.12.2023.
ii. Your e-Tender submitted on date 28.12.2023.
iii. Technical e-bid opened on 29.12.2023.
iv. Financial e-bid opened on 17.02.2024

Dear Sir,

With reference to above, this is to inform you that your Tender for the Subject Work has been accepted by the Competent Authority of Ircon International Limited at the total Contract Value of **Rs. 6,84,76,232.57** (Rupees Six Crores Eighty-Four Lacs Seventy-six Thousand Two Hundred Thirty-Two and Fifty-Seven paise only) including **18% GST** as per enclosed **Annexure-I & Bill of Quantities (BOQ)**. This letter of acceptance is issued by Ircon International Limited in its capacity as PMC and on behalf of NTPC Limited (The Employer). The important terms and conditions of Tender are as under:

1. Performance Security:

As per Clause No. 42.0 of Special Condition of Contract, you are required to submit Performance Guarantee within 28 days of issue of this Letter of Acceptance (LOA) of for a sum equal to **5% (Five percent)** of contract value which comes to **Rs. 34,23,812.00** (Rupees Thirty-Four Lacs Twenty-Three Thousand Eight Hundred Twelve only). This guarantee shall be from any Schedule Bank and initially valid up to the 60 days beyond stipulated date of completion of work.

2. Completion Period and Milestones:

The work is required to be completed within **08 months' time (including monsoon Period)** and to be reckoned from the date of issue of Letter of Acceptance. The Contractor shall mobilize resources to site immediately on issue of Letter of Acceptance to start the work. The Contractor shall also execute the work in such a manner that various milestones indicated in SCC Clause No. 18 are achieved.

3. Accepted Rates:

The accepted percentage and rates shall hold good till the completion of work and no additional claim will be admissible on account of fluctuation in market rates, increases in taxes /any other levies etc. on any individual material.

K. R. S. 02/03/24

पंजीकृत कार्यालय: सी-4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली - 110017, भारत

Registered. Office: C-4, District Centre, Saket, New Delhi -110017, INDIA

Tel.: +91-11-29565666 Fax: +91-11-26854000, 26522000 | E-mail: info@ircon.org Web: www.ircon.org

CIN: L45203DL 1976GOI008171



4. **Variation in Quantity:**

This shall be governed by the Clause 10 of NTPC's General Condition of Contract.

5. **CONTRACTOR'S LIABILITY AND INSURANCE:**

This shall be governed by NTPC's GCC Clause 34 with latest amendments.

6. **CONTRACT AGREEMENT:**

You have to attend this Office to execute a Contract Agreement with IRCON as per Annexure-XVII of SCC within 28 days of issue of Letter of Acceptance (LOA). Stamp Duty of requisite value as per the prevailing laws shall be provided by Contractor at his own cost. No payment will be released until execution of contract agreement.

7. **SECURITY DEPOSIT/RETENTION MONEY:**

Security Deposit/Retention Money shall be dealt as per the Clause No. 43 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 of the work.

No interest shall be payable to the Contractor on the amount retained in cash towards retention money.

8. All other terms and conditions contained in the e-tender Document No. IRCON/2061/NTPC Darlipali/General Electricals/01 dated 06.12.2023 along with corrigendum(s) shall form part and parcel of the contract.

9. You are requested to contact AGM/Civil/Project Head, Ircon International Limited, Flat No.405, Maruti Homes, Behind Smart Bazaar, Sarbahal Road, Jharsuguda-768 201, for further instructions for execution of the work under this contract.

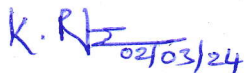
10. This letter of acceptance is being sent in duplicate. One copy may please be signed, stamped and returned to this office in token of unconditional acceptance by you.

Kindly, note that this Letter of Acceptance (LOA) will constitute a legal binding contract between Ircon International Limited and the contractor till such time till the formal contract agreement is signed

Thanking you,

Encl: Annexure-I & Bill of Quantities (BOQ).

Yours faithfully,
For & on behalf of NTPC Limited,


(K. Ravi Kumar)

AGM/Civil/Project Head

K.RAVI KUMAR

**PROJECT HEAD
IRCON INTERNATIONAL LIMITED**

Copy to:

- | | |
|-----------------------------|--------------------------------|
| 1. GM/Projects/NTPC DSTPP | : for kind information please. |
| 2. ED/Special Works/IRCON | : for kind information please. |
| 3. CGM/Electrical/BSP/IRCON | : for kind information please. |

Annexure-I

Name of Work : Design, Supply, Installation, Testing & Commissioning of equipments for 2X1000 KVA 33/0.440 KV Distribution Transformer Substation & associated 33 KV & LT Cable laying works, Electrification of various type Service Buildings etc. in connection with Railway Siding of NTPC at Darlipali in Odisha.

ABSTRACT OF BILL OF QUANTITIES

S.N.	Schedule	Description	Estimated Cost in Rs. (Including 18% GST)	Rate quoted by Contractor as % above/below/at par over the Estimated Cost	Total Amount in Rs. (Including 18 % GST)
1	Schedule-A to H	Design, Supply, Installation, Testing & Commissioning of equipments for 2X1000 KVA 33/0.440 KV Distribution Transformer Substation & associated 33 KV & LT Cable laying works, Electrification of various type Service Buildings etc. in connection with Railway Siding of NTPC at Darlipali in Odisha	8,97,69,576.00	23.72 (Twenty Three Point Seventy Two) below	6,84,76,232.57
		Total Amount quoted including 18% GST (in Rs.)			6,84,76,232.57

KADIVETI
RAVI KUMAR

Digitally signed by
KADIVETI RAVI KUMAR
Date: 2024.03.02
13:43:38 +05'30'

BILL OF QUANTITIES								
Name of Work: Design, Supply, Installation, Testing & Commissioning of equipments for 2X1000 KVA 33/0.440 KV Distribution Transformer Substation & associated 33 KV & LT Cable laying works, Electrification of various type Service Buildings etc. in connection with Railway Siding of NTPC at Darlipali in Odisha.								
S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch. -A	Provision of 33 KV HT Distribution System with Cabling arrangement:							
1	Supply of 33 KV XLPE 1 Core X 150 sq.mm. Aluminium Conductor Cable as per IS 7098 (pt -2)/88 with latest Amendments.	Mtr	13200	653	0	86,19,600	0	86,19,600
2	Laying of Single 33 KV XLPE cable on air along the road through Cable tray (cost of cable tray not included in this item).	Mtr	10200	0	144	0	14,68,800	14,68,800
3	Digging of Trench, laying of 200 mm. dia Concrete Hume Pipe, laying of Single 33 KV XLPE Cable (underground) in normal/hard soil along the Road, in Substation area, across the Railway Track /Road etc , back filling with excavated earth after laying of Concrete Hume Pipe and making good the damages as required. Cost of supply of Concrete Hume Pipe is included in separate BOQ Item.	Mtr	2640	0	240	0	6,33,600	6,33,600
4	Digging of Trench, laying of 200 mm dia HDPE Pipe, laying of Single 33 KV XLPE Cable (underground) across the Railway Track / Road etc, back filling with excavated earth after laying of HDPE Pipe and making good the damages as required. Cost of supply of HDPE Pipe is included in separate BOQ Item.	Mtr	240	0	240	0	57,600	57,600
5	Laying of Single 33 KV XLPE Cable on Air /Culvert Through GI Pipe	Mtr	120	0	144	0	17,280	17,280
6	Supply & Erection of 150 mm dia, GI pipe (Medium).	Mtr	100	1,440	180	1,44,000	18,000	1,62,000
7	Supply & Erection of 33 kV cable route markers along the cable route.	Nos.	4000	960	240	38,40,000	9,60,000	48,00,000
8	Supply & Erection of 33 KV End Jointing kit (Indoor/outdoor type) for 1 Core X150 sq.mm. XLPE cable (E).	Nos.	24	7,200	2,160	1,72,800	51,840	2,24,640
9	Supply & Erection of 33 KV straight through jointing kit (outdoor type) for 1 Core X150 sq.mm. XLPE cable (E).	Nos.	24	16,800	5,040	4,03,200	1,20,960	5,24,160
Sub Total of Schedule A						1,31,79,600	33,28,080	1,65,07,680

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch.- B	33/0.440 KV, 1000 KVA Substation equipments:							
10	Supply, Erection, Testing & Commissioning of 1000 KVA, 33/0.433 kV, 3 Ph, 50Hz, Outdoor type, DYn11, ONAN cooled, two winding, copper wound transformers having Energy efficiency levels 3 as per latest IS: 1180 Part 1 (2014) complete with OLTC, RTCC Panel, PRV, Buchholz Relay, Marhalling Box arrangement in Transformer and first fill of transformer oil. Cable box shall be provided on both (HV & LV) sides. The transformer shall be complete with all standard fittings & accessories & shall be provided with termination arrangement on HV & LV side by providing extended busbars (Busbar links for connecting cables) & cable termination support on LV side.	Nos.	2	63,52,500	6,35,250	1,27,05,000	12,70,500	1,39,75,500
11	Supply, Erection, Testing & Commissioning of 33 kV, 31.5 kA for 1 Sec., 1250 A, Indoor VCB switchgear panel with required PTS, CTS, protective relays, metering equipment, auxiliary equipments, extensible (both sides) copper busbars, including Power Pack (230V AC- 110V DC) for all the feeder etc. complete.	Nos.	2	19,80,000	3,00,000	39,60,000	6,00,000	45,60,000
12	Supply & Erection of 33 kV danger board with the inscription "Danger" 33000 V. In Oriya, Hindi & English including Skull & Bones as per IS 2551 means for pole symbol.	Nos.	20	1,440	600	28,800	12,000	40,800
13	Supply, Laying, Testing & Commissioning of 1.1 KV Grade, PVC Insulated, PVC Sheathed, Armoured, Stranded Copper Cables of following sizes							
i	3Cx2.5 Sq.mm.	Mtr	200	178	36	35,600	7,200	42,800
ii	7Cx2.5 Sq.mm.	Mtr	400	327	60	1,30,800	24,000	1,54,800
iii	3CX6 sq.mm.	Mtr	1000	324	60	3,24,000	60,000	3,84,000
iv	3CX16Sq.mm	Mtr	200	408	72	81,600	14,400	96,000
14	Supply, Laying, Testing & Commissioning of 3CX2.5 sq.mm. 1.1 KV Grade PVC Insulated Copper Flexible Cable.	Mtr	600	312	60	1,87,200	36,000	2,23,200
15	Supply & Erection of following Safety equipment							
i	CO2 type 4.5 Kg	Nos.	8	7,000	600	56,000	4,800	60,800
ii	Dry powder chemical 10 kg. for 1000 kVA transformer	Nos.	4	2,000	400	8,000	1,600	9,600
iii	Rubber Mats of 1m x2 Mtr , 12mm thick (ISI Marks/ Approved make)	Nos.	10	1,980	0	19,800	0	19,800
iv	Hand Gloves -33 KV grade	Pair	4	1,056	0	4,224	0	4,224
v	Shock Treatment & SLD chart duly framed (each 2 nos.).	Nos.	4	3,000	1,000	12,000	4,000	16,000
vi	Tool Box with suitable items like Spanner set, I end Keys, Hammer, Pliers and cutters etc,	Set	1	4,000	0	4,000	0	4,000
vii	First aid box with medicines.	Lot	1	1,320	200	1,320	200	1,520
viii	Sand bucket with sand (1 set) consisting of 4 nos. Bucket with stand).	Set	2	6,600	1,500	13,200	3,000	16,200
	Sub Total of Schedule B					1,75,71,544	20,37,700	1,96,09,244

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch-C	Earthing arrangement of Substation Equipments, Cable Tray etc. :							
16	Supply & laying of Main Earth Mat Conductor of Size 75X8 mm GI Flat in Substation Area.	Mtr	100	660	132	66,000	13,200	79,200
17	Supply & laying of 50x6 Hot dipped GI flat in trench/surface for Earthing of Equipments & Cable Trays etc.	Mtr	200	480	96	96,000	19,200	1,15,200
18	Supply & laying of 25X3 Hot dipped GI flat in trench/surface for Earthing of Equipments & Cable Trays etc.	Mtr	200	240	96	48,000	19,200	67,200
19	Supply & Erection of Earthing with 3-meter-long, 50 mm dia. G.I. pipe class "B" earth electrode, adding of charcoal or coke and salt, providing masonry enclosure and cover plate with lifting arrangement etc..	Job	12	4,200	3,000	50,400	36,000	86,400
	Sub Total of Schedule C					2,60,400	87,600	3,48,000
Sch-D	MS/GI structure, Cable Tray, Civil Works, etc. :							
20	Supply & Erection of Misc. MS Items (different Sizes of Structural steel required as per approved drawings) including fabrication cutting, welding, duly Red Oxide primer coating and dual coat of Aluminium paint etc. or as per Engineer-in-charge direction.	Kg	3000	90	36	2,70,000	1,08,000	3,78,000
21	Supply & Erection of Perforated cable tray 300x50 mm Sheet steel (thickness 2.5 mm) Galvanised with arrangement of cover etc as per drawing.	Mtr	500	1,800	240	9,00,000	1,20,000	10,20,000
22	Supply & laying of 200 mm. dia Concrete Hume Pipe in Trench along the road or across the Railway Track/Road etc.	Mtr	4000	960	120	38,40,000	4,80,000	43,20,000
23	Supply & laying of 200 mm dia HDPE pipe ISI marked, Gr-8 along with sockets in trench along the road or across the Railway Track/Road etc.	Mtr	500	1,440	120	7,20,000	60,000	7,80,000
24	Supply & laying of 40 mm ballast in Substation.	Cum	30	1,800	600	54,000	18,000	72,000
	Sub Total of Schedule-D					57,84,000	7,86,000	65,70,000

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch.- E Provision of LT Cable:								
25	Supply of 1.1 KV Grade, Supply XLPE (LT) Aluminium conductor, as per IS 7098 (pt -1)/88 with latest Amendments.							
i	3.5 Core X 630 sq.mm.	Mtr	200	4,722	0	9,44,400	0	9,44,400
ii	3.5 Core X 400 sq.mm.	Mtr	2000	2,544	0	50,88,000	0	50,88,000
iii	3.5 Core X 240sq.mm.	Mtr	3500	1,620	0	56,70,000	0	56,70,000
iv	3.5 Core X 120 sq.mm.	Mtr	3000	862	0	25,86,000	0	25,86,000
v	3.5 Core X 95 sq.mm.	Mtr	3000	692	0	20,76,000	0	20,76,000
vi	3.5 Core X 70 sq.mm.	Mtr	1500	407	0	6,10,500	0	6,10,500
vii	3.5 Core X 35 sq.mm.	Mtr	13000	282	0	36,66,000	0	36,66,000
26	2 Core X 10 Sq. mm. Armoured Copper cable	Mtr	500	155	0	77,500	0	77,500
27	Laying of XLPE, LT Cable with double compression glands, cable lugs, Cable markers etc.							
i	Cable laying on Cable Tray (cost of cable tray not included in this item)	Mtr	1000	0	120	0	1,20,000	1,20,000
ii	Digging of Trench, laying of LT Cable (underground) in Trench/RCC Hume Pipe/HDPE Pipe along the road or across the Railway Track / Road etc , back filling with excavated earth after laying of Concrete Hume/HDPE Pipe and making good the damages as required (Supply & laying of Hume Pipe/HDPE Pipe is included in separate BOQ item).	Mtr	25000	0	180	0	45,00,000	45,00,000
iii	Cable laying in Culvert through GI Pipe	Mtr	400	0	120	0	48,000	48,000
28	Preparation of Details Wiring Diagram, Power Supply Diagram and as erected drawings.	Per Bldg/Pow er source	7	0	6,000	0	42,000	42,000
Sub Total of Schedule - E						2,07,18,400	47,10,000	2,54,28,400

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch.- F Provision of LT Panel/Boards:								
29	Supply, Erection, Testing & Commissioning of LT floor mounted panel consisting of copper bus bar 2000 Amp (120x10mm for phase, 100 x 5mm for neutral) with LED type indication lamp for RYB in incoming side. The Control Panel shall be consisted of I/C: 3 (2 nos. for Transformer and 1 no. for DG Set) X1600A ACB MDO type (Microprocessor release) 50 kA (neutral CT, UVT coil) with panel mounted multifunction energy meter with 1600/5A CTs and 2X1600A 4P MDO type ACB as bus coupler. O/G: 4X400 MCCB 4P, Ics 35 KA with multifunction energy meter with 400/5A CTs, 4X250A MCCB 4P Ics 25KA with multifunction energy meter with CTs 250/5A, 3X160A MCCB 4P Ics 25KA with multifunction energy meter CTs 160/5A ,5X100A MCCB 4P Ics 25KA with multifunction energy meter with CTs100/5A, (in all out going feeders) , with +5% in overall size (For ACB & MCCB's Ics = 100% Icu).	Nos.	1	21,60,000	1,80,000	21,60,000	1,80,000	23,40,000
30	Supply, Erection, Testing & Commissioning of APFC Relay Panel with 400 KVar Capacitor Bank along with disconnecting device etc.	Nos.	1	7,20,000	30,000	7,20,000	30,000	7,50,000
31	Supply, Erection, Testing & Commissioning of outdoor Feeder Pillar / Indoor Floor Mounted Panel consisting of copper bus bar 500A with LED type indication lamp for RYB in incoming side. The feeder pillar shall be consist of I/C 1X400A ACB / MCCB, 4P, 35 KA with multifunction energy meter arrangement, O/G: 2X250A MCCB, 4P, 35 KA, 2X100 A MCCB, 4P, 25 KA , 2X63A MCCB, 4P, 10 KA.	Nos.	2	7,20,000	60,000	14,40,000	1,20,000	15,60,000
32	Supply, Installation, Testing & Commissioning of Wall/Floor mounted 63 A Socket DB, IP 64 comprising of following : Incomer 1X100 A 4P MCB , outgoing 63 A 4P MCB- 2 nos., 63 A 5 Pin socket -2 nos. with LED type indicating lights	Nos.	3	24,000	1,200	72,000	3,600	75,600
33	Supply, Installation, Testing & Commissioning of Wall mounted type DB out of 2 mm thick sheet with following MCBs: Incoming- 1 no. 63 A DP MCB,RCCB- 63 A, Outgoing- 12 nos. 6-20 A MCB.	Nos.	3	14,400	1,200	43,200	3,600	46,800
34	Supply, Installation, Testing & Commissioning of Wall/Floor mounted type DB out of 2 mm thick sheet with following MCBs: Incoming- 1 no. 63 or 100 A TPN MCB, RCCB- 63/100 , Outgoing- 18 nos. 6-20 A MCB.	Nos.	2	18,000	1,200	36,000	2,400	38,400
Sub Total of Schedule -F						4471200	339600	4810800

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
Sch.-G	PROVISION OF SHED LIGHTING, FAN, AIR CIRCULATOR ETC. :							
35	Supply, Installation, Testing & commissioning of flood light LED light similar of Phillips model BVP410LED 144CW HENBFGS3XTIP 65,220-240V 140 W or equivalent as approved	Nos.	6	16,800	1,200	1,00,800	7,200	1,08,000
36	Supply, Installation, Testing & Commissioning of 200 W High Bay LED Light (Lumen Efficacy of LED min. 130 Lm/W) in Loco Shed.	Nos.	20	24,000	1,200	4,80,000	24,000	5,04,000
37	Supply & Installation of industrial temperature interlocked 5 pin plug socket DB 3 phase, Neutral & earth 63 A IP 66 with 100 A 4P isolator, model No. 0589 10 of Legrand or similar.	Nos.	10	18,000	1,800	1,80,000	18,000	1,98,000
38	Supply & Installation of industrial temperature interlocked 3 pin plug socket DB 32A IP 66 with 40 A 4 P Isolator, model No. 0566 69 of Legrand or similar.	Nos.	10	12,000	1,200	1,20,000	12,000	1,32,000
39	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:							
i	50 mm dia	Mtr	100	540	120	54,000	12,000	66,000
ii	75 mm dia	Mtr	100	900	180	90,000	18,000	1,08,000
iii	100 mm dia	Mtr	100	1,080	240	1,08,000	24,000	1,32,000
	Sub Total of Schedule - G					1132800	115200	1248000
Sch.-H	Schedule Civil Works:							
40	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m	Cum	2,120.00	183	0	3,87,960	0	3,87,960
41	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	Cum	51	4,555	0	2,32,305	0	2,32,305
42	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	25	5,247	0	1,31,175	0	1,31,175
43	Centering and shuttering including strutting, propping etc. and removal of form work for foundations, footings, bases for columns.	Sq.mm.	30	208	0	6,240	0	6,240
44	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	3,205.00	74	24	2,37,170	76,920	3,14,090
45	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in: Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	37	5,642	0	2,08,754	0	2,08,754
46	CEMENT PLASTER (IN FINE SAND)12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand)	sqm	195	194	0	37,830	0	37,830

S.N.	Description	Unit	Qty	Unit Rate (Rs.)		Amount (Rs.) excluding GST		
				Supply Rate (Excluding GST)	Erection Rate (Excluding GST)	Supply Amount	Erection Amount	Total (Rs.)
1	2	3	4	5	6	7=4*5	8=4*6	9=7+8
47	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge (Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	cum	98	1,264	0	1,23,872	0	1,23,872
48	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge.	cum	1	1,844	0	1,844	0	1,844
49	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.	sqm	11	628	0	6,908	0	6,908
50	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge (In cement mortar).	cum	3	366	0	1,098	0	1,098
51	Dismantling of tiles in floor and roof laid in cement mortar including stacking material within 50 metres lead (For thickness of tiles 10 mm to 25 mm)	sqm	33	40	0	1,320	0	1,320
52	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	14	28	0	392	0	392
53	Supply and erection of Fencing panels, uprights, Gate and Anti-climbing device.	Mtr	40	2,500	0	1,00,000	0	1,00,000
Sub Total of Schedule - H						14,76,868	76,920	15,53,788
Total Basic Amount of Schedule A to H						6,45,94,812	1,14,81,100	7,60,75,912
GST @18% on Total Basic Amount						1,16,27,066	20,66,598	1,36,93,664
Total Cost including GST @18%						7,62,21,878	1,35,47,698	8,97,69,576
Note:								
1	Material will be procured from the Vendor listed in NTPC's Approved Vender List for items. Prior Approval of IRCON will be taken for procurement of items not available in NTPC's Approved Vender List of							
2	Inspection by RITES/NTPC/IRCON (BOQ rate is inclusive of Inspection Charges/Fee by RITES/NTPC/IRCON)							
3	Defect Liability Period shall be for 12 months from the date of handing over of completed works to NTPC/IRCON.							
4	Latest IS codes/standards shall be followed.							
5	Safety, Health, Environment rules of IRCON & NTPC shall be strictly implemented during execution of works.							
6	No payment shall be made for watch and ward of completed works till final handing over of Completed Work to NTPC/IRCON.							
7	All the Invoices shall be raised to "IRCON A/c NTPC Limited ".							

KADIVETI
RAVI KUMAR

Digitally signed by KADIVETI RAVI
KUMAR
Date: 2024.03.02 13:42:28 +05'30'

Signature Not Verified

Digitally signed by KADIVETI RAVI KUMAR
Date: 2024.04.10 15:53:35 IST
Location: eProcurement System for Central PSUs

