

# TPCODL

## TP CENTRAL ODISHA DISTRIBUTION LIMITED

O/O THE EXECUTIVE ENGINEER, (ELECT.) B.E.D., BHUBANESWAR.  
INSIDE 33/11 KVA SUB-STATION RASULGARH, BHUBANESWAR-751010  
Ph. No. 0674- 2549024, Fax- 0674- 2549024,

No:  
To

171

Date: 08-01-21

M/s Om shree infratech Pvt Ltd  
MD- Keshab Chandra Pradhan  
Plot No-526/1996,  
Mouza- Baliana, Khurdha

Through: A.M. (Elect.) Fulnakhara

Sub Permission for installation of 25KVA., 11/0.4KV S/S=1 No , 3Ph.3 wire 11KV line= 0.05km (2Span) for providing 10KWGPS load ( Construction Power) to the apartment at 11KV supply with LT single point metering in favour of M/s Om shree infratech Pvt Ltd MD- Keshab Chandra Pradhan over plot No-526/1996, Khata No-704/133, Mouza- Baliana, Khurdha against 138 KW future load under Fulnakhara Section in 6% deposit work scheme.

Sir,

Permission is here by for installation of 25KVA., 11/0.4KV S/S=1 No , 3Ph.3 wire 11KV line= 0.05km (2Span) for providing 10KWGPS load ( Construction Power) to the apartment at 11KV supply with LT single point metering in favour of M/s Om shree infratech Pvt Ltd MD- Keshab Chandra Pradhan over plot No-526/1996, Khata No-704/133, Mouza- Baliana, Khurdha against 138 KW future load under Fulnakhara Section in 6% deposit work scheme. The estimate Rs.4,78,181.00(Rupees Four lakh seventy eight thousand one hundred eighty one )only (Gross) and 6% departmental over head charges is Rs.24,386.00 (Rupees Twenty four thousand three hundred eighty six only (Net) & 1% CESS is Rs.4,308.00(Rupees Four thousand three hundred eight only)& GST Rs. 4,390.00 ( Rupees Four thousand three hundred ninety only. is enclosed with the following terms and conditions for your reference.

### SCOPE OF WORK

Sl No	Scope		Remarks
1	Installation of 25 KVA 11/0.4KV ( BIS Energy Level-II) Double Pole mounted S/S 116x100mm 11mtr long RS Joist pole with 5nos earthing, LA, AB switch , H.G Fuse, LT distribution box and boundary wall , spreading of Sand & metal etc.	1No	To be executed & maintained by party on deposit of 6% supervision Charges )
2.	Construction of 3Ph.11KV O/N line 150 mm 10mtr long RS Joist pole using 55mm <sup>2</sup> AAA conductor with provision polymer type disc insulator	0.05km (2Span)	To be executed by Party & handed over to TPCODL for maintenance on Deposit of 6% Supervision charges.
3			

### TERMS AND CONDITIONS

1. You are allowed to execute the work as mentioned in the scope of work above at Sl.1 to3 at your cost inside your premises as per approved drawing through an authorized Electrical Contractor having valid H.T. License as per I.E. rule and I.S.S standard. The L.T side of transformer should be sealed by cable end box .The s/stn should be constructed only on your plot .
2. After completion of line and S/S work the same is to be inspected by Electrical Inspector, Govt .of Orissa at your cost and getting clearance the same will be energized. You have to produce relevant records such as compliance report, inspection report, test report etc. to our field officers at the time of energisation of the units.
3. The materials utilized for the sub-station work should be of good quality and as per specification of TPCODL The original cash memos in support of procurement of materials are to be produced before the supply Engineer of TPCODL to ascertain the sources of receipt of materials.

4. In compliance to the letter No: 33572 (25), dtd.13.12.13 of Chief Operating Officer, TPCODL, you will have to submit the "Test Certificate" and "Type Test Report" of the following materials to be utilized in the site followed by the inspection of materials as per specification mentioned in the estimate by the "Inspecting Officer" prior to deposit of 6% supervision charge and execution of the work. Non compliance of above may lead to cancellation of this permission without giving any reason thereof. List of the materials subject to testing before use in field are:

**a) TYPE TEST OF THE POST INSULATORS:-**

- a. Visible discharge test
- b. Impulse voltage withstand test
- c. Dry power frequency voltage withstand test
- d. Wet power frequency voltage withstand test
- e. Mechanical strength test for post insulators.

**b) TYPE TEST OF THE HARD WIRE FITTINGS:-**

**A. On suspension hardwire fittings only.**

- a. Magnetic power loss test
- b. Clamp slip strength Vs torque
- c. Mechanical strength test
- d. On one test on elastomer.

**B. On Tension hardwires fittings only.**

- a. Electrical resistance test for dead end assembly
- b. Heating cycle test for dead end assembly
- c. Slip strength test for dead end assembly
- d. Mechanical strength test

**C. On both suspension and Tension hardwire fittings.**

- a. Visual examination.
- b. Verification of dimension
- c. Galvanizing/ electroplating test
- d. Mechanical strength test of each component. (including corona control ring/ grading ring and arcing horn)
- e. Mechanical strength test of welded joint.
- f. Mechanical strength test for corona control ring/ grading ring and arcing horn.
- g. Test on locking device for ball and socket coupling.
- h. Chemical analysis, hardness tests, grain size, inclusion rating and magnetic particle inspection for forging/ casting.

**c) TYPE TEST OF THE LIGHTENING ARRESTERS:-**

**A. Insulation withstand tests:**

- a. Lighting Impulse voltage test.

**B. Residual voltage tests**

**C. Long duration current Impulse withstand tests**

**D. Operating duty tests**

**E. Pressure relief tests**

- a. High current tests.

b. Low current tests.

F. Power frequency voltage vs. time curve. (Temporary over voltage test)

G. Contamination test. (Artificial pollution test).

H. Seismic withstand test.

IP-55 test on surge counter.

J. Minimum current operation tests of the surge counter.

K. Maximum current operation tests of the surge counter.

L. Mechanical terminal load test on bushing.

M. Partial discharge test.

**d) TYPE TEST OF THE AB SWITCHES:-**

a. Impulse voltage dry test.

b. Power frequency voltage dry test.

c. Power frequency voltage wet test.

d. Temperature of resistance.

e. Measurement of resistance.

f. Test to prove the capability of carrying the rated peak short circuit current and the rated short time current.

g. Mainly active load breaking capacity test.

h. Transformer off-loading breaking test.

i. Line charging breaking capacity test.

j. Operation tests

k. Mechanical endurance test

l. Mechanical strength test for the post insulator.

m. Test for galvanization of metal (ferrous) parts.

**e) TYPE TEST OF THE HG FUSES:-**

a. Impulse voltage dry test.

b. Power frequency voltage dry test.

c. Power frequency voltage wet test.

d. Temperature of resistance.

e. Test to prove the capability of carrying the rated peak short circuit current and the rated short time current.

f. Mainly active load breaking capacity test.

g. Transformer off-loading breaking test.

h. Line charging breaking capacity test.

i. Operation tests

j. Mechanical endurance test

k. Mechanical strength test for the post insulator.

l. Test for galvanization of metal (ferrous) parts.

**f) TYPE TEST OF THE MID SPAN COMPRESSION JOINTS FOR CONDUCTOR AND EARTH WIRE:-**

a. Chemical analysis of materials.

b. Electrical resistance test.

- c. Heating cycle test
- d. Slip strength test.

**TYPE TEST OF THE CONDUCTOR:-**

These tests shall be carried out in accordance with the requirements of IS-8130, IS:5831 an IEC 811.

- a. Tensile test of aluminum
- b. Wrapping test
- c. Conductor resistance test

**h) --TYPE TEST OF THE LT XLPE CABLE:-**

These tests shall be carried out in accordance with the requirements of IS-10810.

- a. Tensile test of aluminum
- b. Wrapping test
- c. Conductor resistance test
- d. Test for thickness of insulation and sheath
- e. Tensile strength and elongation at break test for insulation and outer sheath
- f. High Voltage test
- g. XLPE insulation test of the full drum.
- h. Bending Test
- i. Partial discharge Test
- j. Flammability Test

Deposit details :-

Sl No	Description	Amount	CGST Rate	CGST Amount (RS.)	SGST Rate	SGST Amount (RS.)	Total Amount
1	Security deposit of 10KW GPS load	31,556.00	0.00%	-	0.00%	-	31,556.00
2	Service connection Charges of 10KW GPS load	1,713.00	9%	154.17	9%	154.17	2,021.34
3	Supervision charges	24,386.00	9%	2,194.74	9%	2,194.74	28,775.48
4	CESS	4,308.00	0.00%	-	0.00%	-	4,308.00
	Round	0.18	0.00%	0	0.00%	0	0.18
<b>Total Payble Amount</b>							<b>66,661.00</b>


5. The above amount payable to TPCODL, B.E.D, Bhubaneswar in shape of cash / D.D within one month from the date of permission.
6. You have to install 25 KVA 11/0.4 KV ( BIS Energy Level-II) transformer as per letter of C.E.O.(Operation), TPCODL, Bhubaneswar communicated vide L.No.39455 dtd.18.08.2010 of C.O.O, TPCODL Bhubaneswar & the same should be inspected by the E&MR division /store Division and one Officer of this Division of TPCODL, Bhubaneswar before purchase and installation of sub-station & the report may be submitted before charging  
All safety aspects are to be ensured for erection of lines and sub-stations.
7. You are requested to execute an agreement with the undersigned within 30 days from the date of issue of this letter after which the permission will treated as cancelled for which you have to produce specimen signature duly attested by the concerned S.D.O. at the time of execution of agreement
8. Any dispute arising out of any reason due to route alignment of 11 KV line and location of sub-station shall be settled up / compromised at the cost of the party.
9. Power supply to the houses / flats & common load shall be provided on application of individual owners observing departmental formalities after completion of s/stn & allied works.
10. The power supply shall be effected at 11KV with suitable metering at L.T Single point with R.F. metering provision.

1. You may be provided a separate room at your premises for providing power supply at L.T. single point metering arrangement .
12. An enclosure with roof, door and locking arrangement has to be constructed by you near the metering unit installed for protection of energy meter and TP box etc. form rain / storm.
13. Arrear if any, pending against the existing premises shall be cleared up by you before execution of agreement.
14. The guarding if required, will be provided against the existing 33KV line / 11 KV / LT line / telephone line / road if any keeping allowable clearance.
15. Anti-climbing device is to be provided in the sub-station by the party.
16. Circuit breaker of suitable rating to be installed at the transformer secondary (L.T) side and H.T isolator along with required protective system at the H.T. side must be provided as per I.E. Rule, 1948.
17. Any dispute / legal complicacy arising out of route alignment of 11 KV line and location of sub-station/ damage / accident has to be settled up at your risk & responsibility .
18. The annual rent for land on which the S/Stn. Stands has to be paid by you to Bhubaneswar Municipal Corporation regularly without fail as spelt out in the no objection certificate issued by B.M.C.
19. You have to furnish the layout plan of electrical control room and allied installation with due approval from supply Engineer prior to construction and approval from Electrical Inspector, Govt. of Orissa.
20. The power supply shall be effected at H.T with suitable metering at LT Single point.
21. The work should be completed within 20 days to provide power supply.
22. TPCODL shall not held responsibility any land dispute .
23. You have to produced an affidavit , stating that you have no outstanding dues payable to the present distribution licence/ supplier or any other distribution license/ supplier within the state of Odisha in Form-1 or 2.
24. ORERA Regd. Certificate to be submitted prior to energisation of the Final load .
25. You are requested to contact S.D.O.,Elect, Rasulgarh Sub-Division /A.M.(Elect.) Fulnakhara Section for further necessary action.

Encl: As above.

Copy of sanctioned estimate.

Yours faithfully,

  
Executive Engineer (Elect.)

B.E.D., BBSR.

Memo No.

172 (4)

// Dated 08.1.21

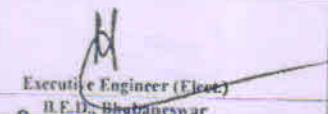
Copy along with copy of enclosure submitted to :

1. The S.E.E.C. No.1, Bhubaneswar for favour of kind information with refrence to his permission letter No-23(4) date-06.01.2021.
2. The E.E. MRT division, Bhubaneswar for kind information and necessary action.
3. The S.D.O. (Elect.) Rasulgarh Sub-division. It is advised to ensure that the route selected for 11KV LT Lines do not arise any sort of future complication.
4. The S.D.O. (Commerece), Rasulgarh Sub-division for information and necessary action.
5. The A.M. (Elect.) Fulnakhara Section for information and day to day supervision of works .
6. The A.M.(F) & Cashier of this office for information and necessary action.

Encl: As above.

  
Executive Engineer, (Elect.)

B.E.D., BBSR

TPCODL	
D/O - THE EXECUTIVE ENGINEER (ELECT), B.E.D., BHUBANESWAR.	
INSIDE 11/1 KVA SUB STATION RASULGARH, BHUBANESWAR 751010	
PH: (95-674) 2587024 / 2587025      FAX: (95-674) 2587024	
PROVINCE	: ODISHA
DIVISION	: BHUBANESWAR ELECTRICAL DIVISION
SUB-DIVISION	: RASULGARH
SECTION	: FULNAKHARA
STATION	: BHUBANESWAR
NAME OF WORK	: Estimate in 6% deposit work for installation of 25KVA., 11/0.4KV plinth mounted S/S=1 No. 3Ph.3 wire 11KV line= 0.05km (2Span) for providing 10KWGPS load ( Construction Power) to the apartment at 11KV supply with LT single point metering in favour of Keshab Chandra Pradhan over plot No-526/1996, Khata No-704/133, Mouza- Baliana, Khurda against 138 KW future load under Fulnakhara Section.
SCOPE OF WORK	
	(1) Installation of 25 KVA 11/0.4KV Plinth mounted S/S by using 116x100 mm 11mtr long RS Joist pole-1No ( To be erected & maintained by party on deposit of 6% supervision charges) (2) Construction of 3Ph.3wire 11KV line using 55mm <sup>2</sup> AAA conductor and 150x150 mm 10mtr long RS Joist pole with cut point 1No = 0.05KM(2Span) (To be executed by party on deposit of 6%supervision charges & handedover to TPCODL for maintenance)
SERVICE HEAD	: 6% Deposit work
ESTIMATE No.	: /2020-21
ESTIMATE AMOUNT	: Rs 4,78,181.00(Rupees Four lakh seventy eight thousand one hundred eighty one )only (Gross) and 6% departmental over head charges is Rs 24,386.00 (Rupees Twenty four thousand three hundred eighty six only (Net) & 1% CESS is Rs 4,308.00(Rupees Four thousand three hundred eight only)& GST Rs. 4,390.00 ( Rupees Four thousand three hundred ninety only.
	 Executive Engineer (Elect) B.E.D., Bhubaneswar

**TECHNICAL REPORT :**

The estimate amounting to Rs 4,78,181.00 (Rupees Four lakh seventy eight thousand one hundred eighty one only (Gross) and 6% departmental over head charges is Rs 24,386.00 (Rupees Twenty four thousand three hundred eighty six only (Net) & 1% CESS is Rs 4,308.00 (Rupees Four thousand three hundred eight only) & GST Rs. 4,390.00 ( Rupees Four thousand three hundred ninety only, has been framed in 6% deposit scheme by the undersigned to meet the probable expenditure for (1) Installation of 25 KVA 11/4KV Plinth mounted S/S by using 116x100 mm 11mtr long RS Joist pole-1No ( To be erected & maintained by party on deposit of 6% supervision charges) (2) Construction of 3Ph,3wire 11KV line using 55mm<sup>2</sup> AAA conductor and 150x150 mm 10mtr long RS Joist pole with cut point 1No = 0.05KM(2Span) (To be executed by party on deposit of 6% supervision charges & handedover to TPCODL for maintenance)


As per report of SDO (Elect) Rasulgarh & AM (Elect) Fulakhara The proposed 25 KVA S/S will be feed from 11KV Balaria Feeder which is emanating from 8MVA 33/11KV Transformer at Naharkanta Primary Sub Station. Peak load of the Power transformer is 190Amp per phase 11KV side during summer 2020. The VR is 8.90 %

The above work will be executed by party on 6% deposit work through an authorised electrical contractor having valid H.T license. Before execution of work 6% supervision charges of Rs.24,386.00 (Rupees Twenty four thousand three hundred eighty six only (Net) & 1% CESS is Rs 4,308.00 (Rupees Four thousand three hundred eight only) & GST Rs. 4,390.00 ( Rupees Four thousand three hundred ninety only, will be deposited by the contractor, who will execute the work before charging of lines and sub-stations. The right of way problem is the responsibility of party during execution of work.

  
Executive Engineer (Elect.)  
B.E.D., Dumbaleswar

ESTIMATE					
Division :	U.F.D., Hubaneswar			Section	Fulnakhara
Sub-Division :	Rasulgarh			Eat. No. :	207 / 20-21
Head of Work :	6% Deposit work Scheme				
Name of Work					
Estimate in 6% deposit work for installation of 25KVA, 11/0.4KV S/S-1 No., 3Ph 3 wire 11KV line= 0.05km (2Span) for providing 10KWG/S load ( Construction Power) to the apartment at 11KV supply with LT single point metering in favour of M/s Om shree infratech Pvt Ltd MID- Keshab Chandra Pradhan over plot No-526/1996, Khata No-704/133, Mouza- Halianta, Khurdha against 138 KW future load under Fulnakhara Section.					
Scope of Work					
(1) Installation of 25 KVA 11/ 4KV Plinth mounted S/S by using 116x100 mm 11mtr long RS Joist pole-1No ( To be erected & maintained by party on deposit of 6% supervision charges) (2) Construction of 3Ph 3wire 11KV line using 55mm <sup>2</sup> AAA conductor and 150x150 mm 16mtr long RS Joist pole with cut point 1No = 0.05KM(2Span). (To be executed by party on deposit of 6%supervision charges & handedover to TPC ODL for maintenance)					
Sl No	Description of Materials	Unit	Quantity	Rate (Rs)	Amount (Rs)
<b>Installation of 25 KVA 11/ 4KV Plinth mounted S/S by using 116x100 mm 11mtr long RS Joist pole-1No</b>		<b>To be erected &amp; maintained by party on deposit of 6% supervision charges</b>			
1	116x100 mm 11Mtr long RS Joist pole	No/Kg	2519.2	519.2	33,718.00
2	Pressure Channel 100 x 50 x 6mm MS channel each 2.8 mtr. Long 9.2 K.g. per mtr.) X2 Nos	K.g.	51.52	65.00	3,348.80
3	Transformer mounting channel 100 x 50 x 6mm MS channel each 2.8 mtr. Long 9.2 K.g. per mtr.) X2 Nos	K.g.	51.52	65.00	3,348.80
4	AB Switch & HG Fuse, Mounting Channel 75x40x6 -2.8 mtr long, 4 nos (8.5K.g. per mtr.)	K.g.	76.16	65.00	4,950.40
5	Cantilever channel for supporting AB Switch arm 75x40x6-1 mtr. Long, 2nos(6.8K.g. per mtr.)	K.g.	13.6	65.00	884.00
6	Cantilever channel for supporting HG Fuse 50 x 50 x 6 mm MS Angel (1.0 mtrs. Long 2 nos) (4.5K.g. per mtr.)	K.g.	9	65.00	585.00
7	Angle for Cantilever arrangement for AB Switch & HG Fuse 50 x 50 x 6-2 mtr. each 2 nos (4.5 K.g. per mtr.)	K.g.	18	65.00	1,170.00
8	Transformer belting Angel 50 x 50 x 6 mm - 2.8 mtr. Long 2 nos (4.5 K.g. per mtr.) with side angel ( Total 7 mtr.)	K.g.	31.5	65.00	2,047.50
9	Angle for mounting LT distribution Box. 50 x 50 x 6 mm MS Angel - 2.5 mtrs each Long 2 nos (4.5 K.g. per mtr.)	K.g.	22.5	65.00	1,462.50
10	11KV AB Switch 3 Pole (400 Amp)	Set	1	11,850.00	11,850.00
11	11KV HG Fuse 3 Pole (400 Amp)	No.	1	11,530.00	11,530.00
12	41 KV L.A. 12KV-10KA	No.	3	3,550.00	10,650.00
13	11 KV GI Pin insulator (Polymer)	No.	3	200.00	600.00
14	11 KV GI Pin (Polymer)	No.	3	80.00	240.00
15	GI Pipe Earthing 40 Dia Medium gage 3mtr Long	No.	5	1,050.00	5,250.00
16	No 6 GI Wire	K.g.	20	75.00	1,500.00
17	40x6mm GI Flat for neutral	K.g.	20	75.00	1,500.00
18	HT Stay Set Complete	Set	2	1,050.00	2,100.00
19	HT Stay insulator	No.	2	50.00	100.00
20	HT stay clamp (1.95K.g/ Pair)	Pair	2	125.00	250.00
21	7/10 Stay Wire	Kg	20	75.00	1,500.00
22	Fixing and concreting of stay set with 0.5Cum cement concret foundation 1:3:6 size (900mmx600mmx900mm) using 40mm BHG metal with all labour and material except stay set , stay wire, stay insulator	No.	2	2,315.15	4,630.30
23	Concreting of support C.C - 1:1.8 using 40mm BHG metal size - 5x2x2 = 20CFT = 0.570Cum Padding 900x600x150mm = 0.081 0.651Cum @ 3071.25= 1999.38each	NO	2	2,639.18	5,278.36
24	Couping of support section 15"x15" ( 3.9CR) height 2'-6" ( 1'-6" above G.L. & 1'-0" below G.L.) in C.C 1:2:4 using 12mm BHG metal & curing for 5 days	Nos	2	676.37	1,352.74
25	Materials for Machinery work for Earth Pit, Charcoal, Salt etc including construction of earthing chamber (Size- 2'x2') and RCC slab cover	No	5	2,270.27	11,351.35
26	Mx Nut, Bolt & Washer	K.g.	36	71.00	2,556.00
27	25KVA, 11/0.4KV (BIS energy level-II)	No	1	53,800.00	53,800.00
28	L.T. Distribution box including Kit Kat fuse with MCCB for 25KVA S/S ( As per CESTI specification)	No	1	14,930.00	14,930.00
29	3/1/2 x 35mm <sup>2</sup> PVC cable for 25 KVA TFR	Mtr	15	152.00	2,280.00
30	55mm <sup>2</sup> AAAC	Km	0.04	30,000.00	1,200.00
31	Red Oxide paint	Ltr	5	150.00	750.00
32	Alb. Paint	Ltr	5	200.00	1,000.00
33	Black paint	Ltr	2	220.00	440.00



34	Harbed fencing wire 15x10 (300) pieces of spanning with erection of RCC fencing post. Sand-filling and moist spreading. Fixing of iron grill gate etc. as per C.S.I. specification	No	1	41,750.00	41,750.00
35	Goods for wires PVC tape Ampere type-Danger Board, small size etc & Drill preparation of drawing Adm. Socket etc	LS	1	4,092.00	4,092.00
36	Plinth for transformer	LS		15,840.00	15,840.00
<b>Construction of 1Ph. 2wire 11KV line using 85mm<sup>2</sup> AAA conductor and 11x100mm 11mtr long RS Jost pole = 0.04KM(1Span)</b>		<b>To be executed by party on deposit of 6% supervision charges &amp; handedover to EPC OHL for maintenance</b>			
36	150x150 mm 10Mtr long RS Jost pole	No/Kg 1/346	146	65.00	22,490.00
37	100 x 50 x 6mm MS channel	kg	60	65.00	3,900.00
38	11KV V V arm	No	1	410.00	410.00
39	Back clamp for V V arm	No	1	40.00	40.00
40	11KV 1/4 Pin insulator (Polymer)	No	3	200.00	600.00
41	11KV 1/2 Pin (Polymer)	No	3	80.00	240.00
42	11KV Disc Insulator (Polymer)	No	12	1,150.00	13,800.00
43	11KV 1/2W fittings (Polymer)	No	12	500.00	6,000.00
44	55 mm <sup>2</sup> AAA conductor	KM	0.165	40,000.00	4,200.00
45	Concrete of support C.C - 1.4 x using 40mm BHG metal size - 5x2x2 = 20CT1 = 0.570Cum Padding 900x600x150mm = 0.081 0.651Cum @ 3071.25 = 1000.58each	No	1	2,639.18	2,639.18
46	Coupling of support section 15"x15" (3.9CB) height 2'-6" (1'-6" above G.L. & 1'-0" below G.L.) in C.C 1.2.4 using 12mm BHG metal & curing for 3 days	No	1	676.37	676.37
47	Coil earthing				
48	Danger board	No	1	166.00	166.00
49	Harbed wire	No	1	80.00	80.00
50	Nut & bolt	Kg	2	80.00	160.00
51	Red Oxide paint	Kg	2	71.00	142.00
52	All. Paint	Ltr	2	150.00	300.00
53	Black paint	Ltr	2	200.00	400.00
54	Sundries	L.S	1	220.00	220.00
<b>GUARDING FOR ROAD CROSSING ( 1 SPAN)</b>					1,000.00
55	75x40x6 mm MS Channel	Kg	30	65.00	1,950.00
56	No 8 G.I. wire for guarding	Kg	20	65.00	1,300.00
57	J-Hook	No	8	65.41	523.28
A	Total cost of Material as per 2018-19 Cost Data				322,122.58
B	Stock Storage & Insurance				9,563.68
	Sub Total (A+B)				331,786.26
C	2% T & P charges of (A+B)				6,635.73
D	3% Contingency of (A+B)				9,953.59
E	7.5% Transportation charges of (A+B)				24,483.97
F	10% Erection Charges of (A+B)				33,178.62
G	Sub-total (A to F)				406,438.17
H	Other over head ( Including 6% supervision charges of G				24,386.29
I	Total Estimated Capital cost (G+H)				430,824.46
J	GST @ 18% of H				4,389.53
K	CESS @ 1% of I				4,308.24
L	Total Estimate to be deposited by party (H+J+K)				33,054.07
N	Inspection Fee				5,275.00
O	Grand Total (L+K+L+M+N)				478,181.30
Approved and Technically Sanctioned Rs.4,78,181.00(Rupees Four lakh seventy eight thousand one hundred eighty one only (Gross) and 6% departmental over head charges is Rs.24,386.00 (Rupees Twenty four thousand three hundred eighty six only (Net) & 1% CESS is Rs.4,308.00(Rupees Four thousand three hundred eighty only)& GST Rs. 4,390.00 ( Rupees Four thousand three hundred ninety only					
 Executive Engineer (Elect) B.E.D. Bhubaneswar					

## ESTIMATE

Division :	B.E.D Bhubaneswar						
Sub - Division :	Rasulgarh					Section :	Fulnakhara
Name of Work :	Deposit work ( Service connection)					Est NO :	209 /20-21
Scope of Work :							
Three phase service connection estimate for providing power supply to 10KWGPS load ( Construction Power) to the apartment at 11KV supply with LT single point metering in favour of M/s Om three infitech Pvt Ltd MD- Keshab Chandra Pradhan over plot No-526/1996, Khata No-704/133, Mouza- Balanta, Khurdha against 138 KW future load under Fulnakhara Section.							
SI No	Name of the materials	Unit	Qty.	Rate	Amount		
1	16 mm <sup>2</sup> 3 1/2 core LT PVC cable	Mtr	25	122.00	3,050.00	To be Supplied by Party	
2	63 Amps Kitkat fuse	No	6	198.00	1,188.00		
3	T.P.Box	No	1	1,768.80	1,768.80		
4	Cable trench	LS		1,980.00	1,980.00		
5	40mm G.I Service bracket	No	1	1,980.00	1,980.00		
6	8 SWG G.I Wire	Kg	5	75.00	375.00		
7	Sundries	L.S			500.00	500.00	
A	Cost of Material as per FY-2018-19				10,841.80	500.00	
B	18% GST of A	A x 18%			1,951.52	90.00	
C	Cost of Material 19-20	B + C			12,793.32	590.00	
D	3% Stoc&Storage	C x 0.03			383.80	17.70	
E	Sub Total	D + E			13,177.12	607.70	
F	3% contingency+2% T&P+7.5% Transportation +10% erection charges =2	E x 0.225			2,964.85	136.73	
G	Sub Total	E + F			16,141.98	744.43	
H	6% Departmental charges	G x 0.06			968.52	968.52	
I	Grand Total	G + H			17,110.50	1,712.95	
or say Rs. 17,111.00 (G) / Rs.1,713.00 (N)							
Estimate No 209 /20-21							
Approved and sanctioned for Rs. 17,111.00 (G) / Rs.1,713.00 (N)							

Executive Engineer (Electrical)  
B.E. D. Bhubaneswar

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# TPCODL

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M.R.T. SUB DIVISION, BBSR

016

SL.No.

Book No.

FIELD METER TESTING REPORT - Commissioning / Routine / Challenge / Special

L.D.T.

Date Time 06.04.21 CONSUMER NAME M/s Om Shree Infialarkh (I) Ltd, m.d. → kedah ch. Pradhan

CONS. NO. New C.D. 10 kW Tariff Gps Div./Sub. div./ Sec. BED/Raipurgh/F-Nakhara

Feeder Name 11 KV Baharia Hdr. Type of Ind construction power in Apartment Trf. Rating 25 KVA Own Trf. Yes/No

REMOVED/ OLD SEALS  
 make: Power Line  
 SL.No: PL/FE-L2/25/190  
 year: 01/2021, 11/01/2021

METER DETAILS : Make Lords + Gys. (New/used) SL.No. TT1006191 Type w/c Volt 3x240v Amp. 20-100A

MU / C.T. Details : Make L (one) SL.No. P.T.R. C.T.R.

METER READING : Time 18.52 KWH 0 KVARH 0 KVAH 0 VI 226.7 V2 230.2 V3 231.1

L1 0 L2 0 L3 0 PF 0 I 0 kW n 1 Md. 0.0 kW C 0.0 kW P.On

QA 0 KW 0 KVA 0 Dump Taken - Yes / No, Fiddle Yes / No.

VAGE & CURRENT BY TONGUE TESTER (at meter terminals) / Out going Side of Meter  $V_{rn} = V_{ry} = V_{rx} = V_{sy} =$

OBSERVATIONS - Installation of above mentioned w/c meter with energization of 25 KVA, 11/0.4 kv s/s to affect plc to the above said consumer as per W.No = 1144<sup>th</sup> dt. 17.12.21 of E.F (Field), BED, BBSR. The meter is supplied by TPROPZ. Notification no = 5006002429

TRANSFORMER LT SIDE VOLTAGE & CURRENT :  $V_{r1} = 227, V_{r2} = 230, V_{r3} = 231, I_r = 0, I_y = 0, I_b = 0, I_n =$

CT RATIO TEST (R-ph) / (Y-ph) / (B-ph) / (N) /

LONG DIAL TEST : Accbk. SL No. V1 V2 V3 L1 L2 L3 PF KW

<ACCUCHECK> ADVANCE | <MRI (Meter)> ADVANCE

Kwh KVARh KVAh KWh/Wh KVARh/VARh KVAh/VAh Duration

% ERROR (Kwh) =

NEW SEALS : Plastic seals Paper seals Plastic seals Paper seals  
 1. Meter Body (Manf. Seals) M986191(A/P), 1584791(W/P) 10. I/C Chamber -  
 2. Meter Body (MRT seal) Any paper seal. 11. C.T. Chamber -  
 3. MTC (Inner) → A774850/1 12. O/G Chamber -  
 4. MTC (Outer) → A774852 13. Others (if any)  
 5. M.D. Lh m 2381/82 Metering Unit Seals :  
 6. O/P Lh m 6191 Body  
 7. ITB - G/P. Ins. Chamber -  
 8. Meter box (Inner) Secondary Chamber  
 9. Meter box (Outer) H.T. Bushing  
 Trf.LT end box / ENCLOSURE - A774848/17(G/P)

METER STATUS - OK/DEFECTIVE / TAMPERED / BYPASSED

REMARKS:- The m.f. of the Meter = 1 (one). The Transformer loss is to be added with E.F. bill as per norms. The meter could not be tested today as the consumer could not avail 3-phase load at present.