



NESCO UTILITY

EXPRESSION OF INTEREST

for execution of work

“Construction of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling and Distribution Sub-station”

on partial turnkey work basis under Saubhagya Scheme in Balasore, Bhadrak, Jajpur, Mayurbhanj & Keonjhar Districts of ODISHA.

**NOTICE NO:- NESCO Utility / Saubhagya Work /05/18-19 /6809
Date: 05.06.18**

- 1. DATE OF OPENING OF EOI : Dt. 13.06.18**
- 2. TIME: 3.30 PM**
- 3. PLACE: Head Office, NESCO Utility, Januganj, Balasore – 756019, ODISHA**

NESCO UTILITY

Head Office: Januganj, Balasore – 756019, Odisha

Ph. No. 06782-244865, Fax: 06782-244259, Email-purchase@nescoodisha.com

NOTICE NO:- NESCO Utility /Saubhagya Work / 05/18-19/ 6809 Dtd.05.06.18

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NOTICE INVITING EXPRESSION OF INTEREST

For and on behalf of NESCO Utility , Expression of Interest is invited from eligible bidders who comply with the terms & conditions and specification laid down in the bid documents for “**Construction of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling and Distribution Sub-station**” on partial turnkey work basis under Saubhagya Scheme in NESCO Utility License area comprising Districts Balasore, Bhadrak, Jajpur , Mayurbhanj & Keonjhar of Odisha .

Last date of submission of EOI : 13.06.18 up to 3.00 PM

Date of Opening of EOI : 13.06.18 at 3.30 PM

The interested Firms/Agencies may submit their EOI on Block basis in the prescribed format along with all supporting documents / credentials as per formalities of NESCO Utility.

The intending bidders can download the document from our website www.nescoodisha.com. In the event of any specified date for submission or opening of bids being declared as holiday for NESCO Utility or any ‘force majeure’ , the bids will be sold / received / opened up at the appointed time on the next working day.

NESCO Utility also reserves the right to accept or reject any or all EOI without assigning any reason thereof, if the situation so warrants.

For details regarding nature of work, qualification criteria etc. please visit our website- www.nescoodisha.com. Corrigendum if any will be published in the website only.

Sd/-

General Manager (C&P)
NESCO Utility, Balasore, Odisha

GENERAL INFORMATION

1.0 GENERAL:

1.1 NESCO Utility is desirous for improving the infrastructure of line networks by “**Construction of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling , DP Structure and Distribution Sub-station**” where required through executing agency on partially turnkey basis in his licensed area in Balasore, Bhadrak, Jajpur , Mayurbhanj and Keonjhar districts of the state of Odisha under Govt. funded **Saubhagya Scheme**.

1.2 This Document includes statements, which reflect various assumptions, which may or may not be correct. Each Bidder should conduct its own investigation and analysis and should check the accuracy, reliability and completeness of the information in this Expression of Interest. Applicant should make their own independent investigation and study that may be required for submission of the proposal.

2.0 SCOPE OF WORK:

- a) This covers for Construction of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling and Distribution Sub-station. The location & quantum of work will be provided to you with the LOA/work order under this scheme.
- b) All required materials for the said work, the executing agency has to supply which cover under the partial turnkey contract as per work BOQ enclosed. All the supplied materials should be inspected by authorized inspecting officer of NESCO Utility before erection.
- c) NESCO Utility will provide 11KV ‘V’ cross arm, 80mm²/100mm² AAAC, 11KV AB Switch, H.G Fuse, LA, Earthing Device , Distribution Transformer , LT DB, RS Joist for S/S & 3Ph 4W LT AB Cable. The executing agency shall have to receive the materials from NESCO Utility store as per prevailing practice i.e through Indent duly signed by concerned JM(E), SDO(E) & EE(E). Actual materials issued at store on above Indent should only released materials relating to Saubhagya Scheme only which will be handed over to you by Store SDO.

Actual material issued on the above Indent to you must signed by the contractor in whose favour mention on the HT license was issued by the competent authority. He should put signature in front of either EE, SDO or concerned JM(E) at the time of issued of Indent.
- d) Loading, unloading and transportation from your store / manufacturer’s works as well as NESCO Utility store as required and storage of all materials at the site in safe custody.
- g) The span length for 11KV lines with 80mm²/100mm² AAA Conductor & LT Lines with 3Ph.4W AB Cable should be maximum 70 mtr. & 40 mtr. respectively.

- h) After completion of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling and Distribution Sub-station, get it inspected by inspecting officer.
- i) In case of conversion of 1Ph LT line to 3Ph LT line the dismantle materials should be returned to NESCO Utility store.
- j) All dismantled materials should be returned to NESCO Utility store.

3.0 INVITATION FOR EOI :

The bidder must fulfill all the qualification requirements as specified in clause 4.0 stated below. The sealed envelopes shall be duly super scribed as **NOTICE NO:- NESCO Utility /Saubhagya Work /05/18-19/ 6809 Dtd.05.06.18**

TIME SCHEDULES:

Description	Date
Last Date for Submission of EOI	Dt.13.06.18 up to 3.00 PM
Date of Opening of EOI	Dt.13.06.18 at 3.30 PM

4.0 QUALIFYING CRITERIA:

Bidders to be considered as eligible to bid should meet the following qualifications;

- 4.1 The prospective Bidder(s) should be a registered Sole Proprietor Firm/ Partnership Firm/ Company, possessing valid HT Electrical License from the ELBO, Government of Odisha.
- 4.2 The Bidder should possess the followings:
- i. Valid EPF Registration Certificate.
 - ii. Valid ESI Registration Certificate.
 - iii. Labour License
 - iv. GSTIN.
 - v. PAN No.
- 4.3 The Bidder should have similar experience in Distribution Utility/reputed Organization within last 3 years.
- 4.4 The prospective Bidder(s) have to submit audited balance sheet as proof of their Annual Turnover from service business in the preceding three years of FY 2016-17.
- 4.5 The indenting bidder(s) shall furnish the documentary evidence pertaining to the above qualifying criteria or else their bid shall be rejected outright without any further correspondence.

- 4.6 Each Bidder shall submit Bid by himself in case of Proprietary and in case of partnership any of the partner shall submit the Bid and in case of private company, the authorized signatory will submit the Bid. A Bidder in joint venture / consortium shall not be allowed to participate in the bid.
- 4.7 The Firms / Electrical Contractors who have enlisted in NESCO Utility are eligible to submit EOI and need not be required to submit the above qualifying criteria documents provided they possess validity of enlistment on date of opening of the EOI and submit a declaration accordingly.

5.0 SUBMISSION OF EOI: -

5.01 Sealed bids complete in all respects in the manner hereinafter specified are to be submitted at Head Office, NESCO Utility, Januganj, Balasore, Odisha, Pin-756019 on or before the date and time specified in the notice inviting the EOI.

Bids shall be submitted as per format provided Annexure – I to Annexure- VIII in separate double sealed envelopes superscribed on each of the covers the bid specification number and the due date of opening of the bids on the right hand top side of the envelope. On the left top side original/ duplicate as is relevant shall be written.

5.02 The bidders are required to be submitted in separate double sealed covers.

Part - I: Superscribed as **“Technical and commercial bid”** shall contain

- i) Bid documents duly signed in all pages.
- ii) Documents as mentioned in clause no. 4.0 as qualification criteria
- iii) All general information duly filled in Annexure- I

5.03 Part - II, Superscribed as **“Price Bid”**. The Part - II should contain only Price bid as per

Annexure-II in separate sealed envelope.

5.04 Fax and Telegraphic bids shall not be accepted.

5.05 Receipt of bids/ revised bids after the cut off time and date as specified in the Bid specification shall not be permitted and such bids shall be rejected outright. The NESCO Utility shall not be responsible for any delay in transit in post / courier etc. in this regard.

6.0 BID EVALUATION :

6.1 On basis of the proposal and review by NESCO Utility, the eligible bidders may be invited to give their presentation at Head Office, NESCO Utility, Balasore to share their experience / proposal on implementation , methodology and estimated financial implication of undertaking the project based on the rate quoted in Annexure - II.

6.2 The NESCO Utility's evaluation of a Bid will take into account, in addition to the Bid price, the following factors, in the manner and to the extent indicated in this Clause:

- (a) Work Schedule
- (b) Deviations from Bidding Documents

7.0 AWARD OF JOB CONTRACT:

7.1 In normal circumstances NESCO Utility will generally award for Construction of 11KV new line, Conversion of 2Ph to 3Ph 11KV line, 3Ph LT line with AB Cabling, Conversion of 1Ph to 3Ph LT line with AB Cabling and Distribution Sub-station to the successful Bidder whose Bid has been determined to be the lowest evaluated responsive Bid item wise , provided further that the Bidder has been determined to be qualified .

7.2 Each eligible bidder may be awarded one or more blocks at L1 price depending open credential and ability of the bidder to perform the work based on block wise order of preference given by the bidder.

8.0. PRICES:

The item wise unit contract price is FIRM and inclusive of GST @18% . However, the total contract price is variable and evaluated as per the actual work done.

9.0. TAXES & DUTIES:

The contract price is inclusive of GST @ 18% as applicable. Any changes in the GST during the contractual period shall be borne by the NESCO Utility. All statutory deduction as applicable at the time of the payment shall be deducted and to be deposited with the relevant tax authorities.

10.0. RESPONSIBILITY OF NESCO UTILITY:

1. Providing scope of location item wise to take up the work.
2. Providing reasonable quantity materials from NESCO Utility Store through JM(Elect.), concerned like 11KV 'V' cross arm, 80mm²/100mm² AAC, 11KV AB Switch, H.G Fuse, LA, Earthing Device , Distribution Transformer , LT DB, RS Joist for S/S & 3Ph 4W LT AB Cable etc. under scope .
6. A standard Operating Procedure (SOP) for construction of the above works is to be prepared in mutual consent with the Agency and submitted to the Agency for implementation.

11.0. RESPONSIBILITY OF THE AGENCY:

- a) However the contract is partially turnkey basis, all required materials other than in NESCO Utility scope to be provided and execute for 11KV & LT line work .
- b) All required materials should be procured as per specification of NESCO Utility and shall be inspected by authorized representative of NESCO Utility before execution of work.
- c) Lift materials from NESCO Utility store under his scope to site and keep on safe custody at site store .

- d) Any modification , deviation in scope of work for completion the agency must be taken prior approval from concerned NESCO Utility authority.
- e) A daily progress report on work shall to be submitted to this office at the mentioned mail with repeat to concerned Division mail Id, Saubhagya@nescoodisha.com.

12.0. PERIOD OF CONTRACT:

The Contract period is upto 15th Sept. 2018 to complete the 100% work . In no case contract period will be extended further.

NESCO Utility also reserves the right to terminate the contract at any time by giving 15 days termination notice. If any irregularity observes/ poor progress / any financial involvement for providing connection.

13.0. GUARANTEE PERIOD:

The work shall be guaranteed for 18 month from completion of the work. If during this period any materials or work are found defective, these shall be promptly replaced or rectified by the executing agency at his own cost at site. The Guarantee certificate should be submitted along the bill raised.

14.0. TERMS OF PAYMENT:

- i) 80% payment shall be released against the bills after completion & commissioning of particular works duly certified by concerned Executive Engineer.
- ii) 10% payment shall be released after reconciliation of materials.
- iii) Balance 10% shall be released after over of the guarantee period.

The agency shall submit the invoice to concerned Executive Engineer for payment . After due verification & certification the bill forwarded to the DDO, Head Office, NESCO Utility , Balasore for pass & payment within 30 days on submission of certified bill.

15.0. DATA BACKUP:

The Agency shall make regular backups of all works. You shall make backups available to authorized personnel at the operation centre and / or NESCO Utility authorities upon request.

16.0. ADHERENCE TO SAFETY PROCEDURES, STATUTORY RULES, AND REGULATIONS:

16.01 The agency shall comply with the provision of all laws including' labour laws, rules, Electrical licenses, regulations and notifications issued there under from time to time. All safety and labour laws enforced by statutory agencies and by NESCO Utility shall be applicable in the performance of Work and you shall abide by these laws.

- 16.02 The agency shall be responsible to comply with all the statutory obligations arising out of Law of the Land. Your Firm should be duly registered with Provident Fund, ESI authority and liability for such payment to these authorities shall be entirely borne by you. NESCO Utility shall not bear any responsibility whatsoever under this account.
- 16.03 The agency shall take all measures necessary or proper to protect the personnel, work and facilities and shall observe all reasonable safety rules and instructions. You shall adhere to all security requirement / regulations of the NESCO Utility during the execution of the work.
- 16.04 The agency have to obtain necessary License and competency certificate from the Electrical Inspectorates to handle the lines, equipments by the personnel employed by him. You are responsible for any accidents caused to the personnel and damage to equipments during the period of contract. You are responsible for the loss sustained by NESCO Utility due to damage of equipments. You shall be responsible for payment of compensation in case of accidents while carrying out the works. NESCO Utility is no way responsible for any of the accidents.
- 16.05 The agency shall follow the provision of Industrial Dispute Act in case of any disputes arises with his personnel.
- 16.06 The agency shall not sublet, transfer, assign or otherwise part of the contract or any part thereof, either directly or indirectly covered under scope of work.
- 16.07 The agency shall be responsible for recruiting employees at his choice with valid Licence. Under no circumstances, the employees of your shall be considered as NESCO Utility employees and claim remuneration at par with NESCO Utility employees. You shall make it clear to the employees engaged by you are your employees and NESCO Utility has nothing to do with your employment or any other claim. You shall submit copy of the appointment orders duly accepted by the personnel engaged by him before execution of work.
- 16.08 The personnel engaged by you shall be courteous, obedient and sincere to officials of NESCO Utility & new consumers while discharging the duties entrusted to them and shall carry out instructions of concerned Divisional Manager and Circle-in-charge. In case of any misbehaviour by any of the employee engaged, you shall take full responsibility in replacing the concerned with a suitable trained person.
- 16.09 The agency shall report as soon as possible any evidence, which may indicate or is likely to lead to an abnormal or dangerous situation and shall take all necessary emergency control steps to avoid such abnormal situations.

17.0. EVENTS OF DEFAULT:

Events of Default. Each of the following events or occurrences shall constitute an event of default (“Event of Default”) under the contract:

- (a) Service Provider fails to pay any statutory duty within the time frame due under the contracts.

- (b) Service Provider becomes insolvent or unable to pay its debts when due, or commits any act of bankruptcy, such as filing any petition in any bankruptcy, winding-up or reorganization proceeding, or acknowledges in writing its insolvency or inability to pay its debts; or the Service Provider file any petition relating to bankruptcy of Service Provider;
- (c) Service Provider otherwise fails or refuses to perform or observe any term or condition of the Contract and such failure is not remediable or, if remediable, continues for a period of 30 days after receipt of written complaint from NESCO Utility.

18.0. CONSEQUENCES OF DEFAULT:

If an Event of Default occurs and would be continuing, NESCO Utility may forthwith terminate the Contract by written notice.

In the Event of Default, NESCO Utility may, without prejudice to any other right granted to it by law, or the Contract, take any or all of the following actions;

- i) Cancel the contract and present for payment, to the relevant bank the Contract Performance Bank Guarantee;
- ii) Recover any losses and / or additional expenses, NESCO Utility may incur as a result of Service Provider's default.

19.0. LEGAL:

1. The service provider will indemnify NESCO Utility against any liability or damages by way of compensation arising from any accident to person or property of persons in their employment.
2. The service provider will indemnify NESCO Utility against any liability or damages by way of compensation arising from any accident to any other person related to or unrelated to their or NESCO Utility.
3. The service provider shall bear the entire responsibility, liability and risk relating to coverage of work force under different statutory regulations including but not limited to Workmen Compensation Act, ESI Act, Factory Act, Contract Labour Act 1970, etc. and any other relevant regulations, as the case maybe.
4. The service provider shall be fully responsible for payment of benefits including but not limited to Provident Fund, Bonus, Retrenchment Compensation, Leave Encashment, etc. as per statutory provisions.
5. Necessary payment of liabilities shall be the responsibility of their irrespective of payment received from NESCO Utility or otherwise.
6. Payment of all taxes and dues except Service Tax applicable during the tenure of the contract payable to government or local authorities in respect of these works shall be the responsibility of him. A copy of the statutory records shall be provided on a monthly basis to the NESCO Utility.
7. GST at the applicable rate shall be inclusive in the rate of contract. Also any new levy applicable to the work executed by the agency shall be to NESCO Utility's account and shall be paid subject to production of documentary evidence.

20.0 OTHER POINTS:

On basis of the proposal and reviewed by NESCO Utility, the eligible bidders may be invited for discussion on matter of methodology for execution of the work, financial implication and any other points etc. before award of the contract for successful execution of the time bound scheme.

21.0 WORK INSPECTION: The work will be inspected by SDO (Elect.) / EE concerned. The work not found suitable during inspection will be rejected and directed to the contractor for immediate rectification.

22.0 NESCO Utility reserves the right to reject all or any EOI without assigning any reason at any time and at any stage.

22.1 NESCO also reserves the right to modify the conditions to adopt the latest technology and methodology for execution of the scheme work , if any.

23.0 All correspondence with regard to the above shall be made to the following address:

**GENERAL MANAGER (C&P),
Head Office, NESCO Utility
Januganj, Balasore-756019, Odisha**

General Manager (C&P)
NESCO Utility, Balasore, Odisha

GENERAL INFORMATION OF THE BIDDER

1	Name and Address of the Bidder :	
2	Name and designation of the concerned officer to whom all reference shall be made :	
3	Phone / Mobile No. :	
4	E-mail ID:	
5	Proprietor / Head of the Organisation, E-mail ID, Phone/ Mob. No. :	
6	Total No. of Employees/ Manpower Strength :	
	i) Category : No. of Engineer/ Supervisor	
	ii) Details of personnel : No. of Skilled/ Unskilled	
7	Type of the Organization (Limited/Pvt. Ltd./ Partnership/ Proprietary/ Society/ Any other :	
8	Organization registration no. , if any	
9	Audited balance sheet of FY 2016-17 in support of turnover furnished Yes/ No.	
10	Particulars of past experience of similar work in NESCO Utility/ other Utilities in last 3 years ,supporting documents to be furnished:	
11	Any other information that bidder like to give in order to highlight his bid :	

Signature of Authorized Signatory with full name & Company Seal

Note: Separate sheet may be used if necessary.

NOTICE NO:- NESCO Utility / Saubhagya Work / 05/18-19 / 6809 Dtd.05.06.18

PRICE BID

BIDDER NAME:

PRICE QUOTED BY BIDDER AGAINST EACH ITEM FOR SAUBHAGYA SCHEME

Sl. No.	Item Description	Quantity	Unit Estimated cost in Rs.	Quoted Price in Rs.		
				Supply	Erection	Total
1	Construction 11KV new over head line using 9 mtr. long PSC pole with 80/100 mm ² AAA Conductor average span 60 mtr. on partial Turnkey basis as per details BOQ in Annexure-III	Per Km	248566.00			
2	Conversion of 11KV 2Ph to 3Ph over head line using 9 mtr.long PSC pole with 80/ 100 mm ² AAA Conductor on partial Turnkey basis as per details BOQ in Annexure-IV	Per Km	51034.00			
3	Construction of 25 KVA 11/0.4 KV DP mounted Sub-station using 9 mtr. long 150x150 mm RS Joist on partial Turnkey basis as per details BOQ in Annexure-V.	Per S/S	135563.00			
4	Construction of 63 KVA 11/0.4 KV DP mounted Sub-station using 9 mtr. long 150x150 mm RS Joist on partial Turnkey basis as per details BOQ in Annexure-VI.	Per S/S	141657.00			
5	Construction of 100 KVA 11/0.4 KV DP mounted Sub-station using 9 mtr. long 150x150 mm RS Joist on partial Turnkey basis as per details BOQ in Annexure-VII.	Per S/S	147261.00			
6	Construction of line DP structure using 9 mtr. long 150x150 mm RS Joist on partial Turnkey basis as per details BOQ in Annexure-VIII.	Per DP	58365.00			
7	Construction 3Ph 4W LT line using 3x50+1x35 mm ² XLPE AB Cable with 8 mtr. long PSC pole on partial Turnkey basis as per details BOQ in Annexure-IX	Per Km	166971.00			

8	Conversion of LT 1Ph 2W to 3Ph 4W LT Line using 3x50+1x35 mm ² XLPE AB Cable with 8 mtr. long PSC pole on partial Turnkey basis as per details BOQ in Annexure-X.	Per Km	92776.00			
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Note:

- (i) Unit rate is inclusive of GST @ 18% .
- (ii) Any discrepancy in % rate and quoted price , quoted price stands.
- (iii) Any column left blank shall be treated as nil/ inclusive of.
- (iv) The above estimated cost is excluding supply cost of NESCO supply materials but including transportation & erection of all materials.
- (v) The above unit rate shall be inclusive of supply of specific materials, transportation & erection complete

Signature of the Bidder with Seal

(This form should be duly filled up by the bidder & submitted in separate sealed envelopes super-scribing "PART- II PRICE BID")

ANNEXURE -III

Cost analysis of materials for construction of 1KM 3ph 3w 11KV OH line over 9mtr long 300KG PSC pole with 100 mm2 AAAC , and average span 60mtr .				
No of support - 17, Cut point - 3nos , Pin points - 14nos				
Sl.No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	300KG 9mtr long PSC pole	No	17	
2	11 KV V cross Arm (10.2 K.g. each)	No.		14
3	Top bracket	No.	14	
4	Back Clamp for V cross Arm	Pair	14	
5	11 K.V.GI Pin	No.	51	
6	11 K.V. Pin Insulator	No.	51	
7	11 K.V.T &C H.W. Fitting	No.	18	
8	11 K.V. T&C DISC Insulator	No.	18	
9	H.T. Stay set (Complete)	Set	6	
10	H.T. Stay Insulator	No.	6	
11	Fixing of stay set (with concreting)	No.	6	
12	H.T. Stay clamp (1.95 K.g./ Pair)	Pair	6	
13	7/10 SWG Stay Wire 10kg /stay	K.g.	60	
14	Earthing of Support (Coil Type)	No.	17	
15	100 mm2 AAAC	K.M.		3.09
16	Concreting of Pole	NO	3	
17	Red Oxide paint	Ltr	5	
18	Aluminium Paint	Ltr	5	
19	GI barbed wire anticlimbing device 2 Kg. Per support	Kg	34	
20	100 x 50 x 6 mm MS channel for 3nos Cut point	K.g.	154.56	
21	Ms Nut , Bolt & Washer of different sizes	K.g.	51	
22	Sundries for survey tree cutting , small size nut bolt, Allm. Binding wire / tape & Danger Board 4 Nos. etc.	LS	1	

ANNEXURE -IV

Cost analysis of materials for conversion of 1KM 1P2W to 3ph 3w 11KV OH line over 9mtr long 300KG PSC pole with 100 mm2 AAAC , and average span 60mtr .				
No of support - 17, Cut point - 3nos , Pin points - 14nos				
Sl. No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	Top bracket	No.	14	
2	11 K.V.GI Pin	No.	17	
3	11 K.V. Pin Insulator	No.	17	
4	11 K.V.T &C H.W. Fitting	No.	6	
5	11 K.V. T&C DISC Insulator	No.	6	
6	H.T. Stay set (Complete)	Set	2	
7	H.T. Stay Insulator	No.	2	
8	Fixing of stay set (with concreting)	No.	2	
9	H.T. Stay clamp	Pair	2	
10	7/10 SWG Stay Wire	K.g.	20	
11	Earthing of Support (Coil Type)	No.	6	
12	100mm2 AAAC	K.M.		1.03
13	100 x 50 x 6 mm MS channel for 3nos Cut point	K.g.	51.52	
14	Ms Nut , Bolt & Washer of different sizes	K.g.	51	
15	Sundries for survey tree cutting , small size nut bolt, Allm. Binding wire / tape & Danger Board 4 Nos. etc.	LS	1	

ANNEXURE- V

Cost analysis for construction of 1 x 25KVA,11/0.4KV DP mounted S/S over 9 mtr long 150x150mm RS Joist				
Sl. No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	150x150 mm RS Joist, 9 mtr long	No.	0	2
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	
3	Transformer mounting chanel 100 x 50 x 6mm MS channel each 2.8 mtr. Long(9.2 K.g. per mtr.)x2 Nos	K.g.	51.52	
4	AB Swith & HG Fuse, Mounting Channel 75x40x6 -2.8 mtr.long, 4 nos.(6.8K.g. per mtr.)	K.g.	76.16	
5	Cantilever chanel for supporting AB Switch arm, 75x40x6-1 mtr. Long, 2 nos.(6.8 K.g. per mtr.)	K.g.	13.6	
6	Cantilever chanel 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	
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	
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	
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	
10	11KV AB Switch 3 Pole (200 Amp)	Set		1
11	11KV HG Fuse 3 Pole (200 Amp)	No.		1
12	11 KV L.A. 12KV-10KA	No.		3
13	H.T.stay set (Complete)	Set	2	
14	H.T. Stay Insulator	No.	2	
15	H.T. Stay clamp (1.95 K.g./ Pair)	Pair	2	
16	7/10 SWG Stay Wire	K.g.	20	
17	Fixing of stay set (with concreting)	No.	2	
18	GI Pipe Earthing 40 Dia Medium gage 3 mtrs. Long	No.		5
19	No.6 GI Wire	K.g.	20	
20	40x6mm GI Flat for nutral	K.g.	20	
21	Concreting of Pole	NO	2	

22	Materials for Massionary work for Earth Pit,Charcoal, Salt etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No.	5	
23	100mm2 AAAC	Km		0.04
24	Red Oxide paint	Ltr	3	
25	All. Paint	Ltr	4	
26	Black Paint	Ltr	0.5	
27	MS Nut , Bolt & Washer	K.g.	36	
28	25KVA, 11/0.4KV 3 star rated TFR AL	No		1
29	L.T. Distribution box for 25KVA	No.		1
30	3 1/2 x 35mm2 PVC Cable for 25 KVA TFR.	Mtr.	15	
31	Barbed Fencing (size 15'x10')with constn. of retaining wall ,erection of RCC fencing post, Sand filling and metal spreading, Fixing of Iron gril gate etc	No	1	
32	Sundries for survey , PVC tape, Ampire tape,Danger Board, small size nut & Bolt preparation of drawing cable socket etc	LS	1	

ANNEXURE- VI

Cost analysis for construction of 1 x 63KVA,11/0.4KV DP mounted S/S over 9 mtr long 150x150mm RS Joist				
Sl. No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	150x150 mm RS Joist, 9 mtr long	No.	0	2
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	
3	Transformer mounting chhanel 100 x 50 x 6mm MS channel each 2.8 mtr. Long(9.2 K.g. per mtr.)x2 Nos	K.g.	51.52	
4	AB Swith & HG Fuse, Mounting Channel 75x40x6 -2.8 mtr.long, 4 nos.(6.8K.g. per mtr.)	K.g.	76.16	
5	Cantilever chhanel for supporting AB Switch arm, 75x40x6-1 mtr. Long, 2 nos.(6.8 K.g. per mtr.)	K.g.	13.6	
6	Cantilever chhanel 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	
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	
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	
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	
10	11KV AB Switch 3 Pole (200 Amp)	Set		1
11	11KV HG Fuse 3 Pole (200 Amp)	No.		1
12	11 KV L.A. 12KV-10KA	No.		3
13	H.T.stay set (Complete)	Set	2	
14	H.T. Stay Insulator	No.	2	
15	H.T. Stay clamp (1.95 K.g./ Pair)	Pair	2	
16	7/10 SWG Stay Wire	K.g.	20	
17	Fixing of stay set (with concreting)	No.	2	
18	GI Pipe Earthing 40 Dia Medium gage 3 mtrs. Long	No.		5
19	No.6 GI Wire	K.g.	20	
20	40x6mm GI Flat for nutral	K.g.	20	
21	Concreting of Pole	NO	2	

22	Materials for Massionary work for Earth Pit,Charcoal, Salt etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No.	5	
23	100mm2 AAAC	Km		0.04
24	Red Oxide paint	Ltr	3	
25	All. Paint	Ltr	4	
26	Black Paint	Ltr	0.5	
27	MS Nut , Bolt & Washer	K.g.	36	
28	63KVA, 11/0.4KV 3 star rated TFR	No		1
29	L.T. Distribution box for 63KVA	No.		1
30	3 1/2 x 95mm2 PVC Cable	Mtr.	15	
31	Barbed Fencing (size 15'x10')with constn. of retaining wall ,erection of RCC fencing post, Sand filling and metal spreading, Fixing of Iron gril gate etc	No	1	
32	Sundries for survey , PVC tape, Ampire tape,Danger Board, small size nut & Bolt preparation of drawing cable socket etc	LS	1	

Cost analysis for construction of 1 x 100KVA,11/0.4KV DP mounted S/S over 9 mtr long 150x150mm RS Joist				
Sl. No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	150x150 mm RS Joist, 9 mtr long	No.	0	2
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	
3	Transformer mounting chhanel 100 x 50 x 6mm MS channel each 2.8 mtr. Long(9.2 K.g. per mtr.)x2 Nos	K.g.	51.52	
4	AB Swith & HG Fuse, Mounting Channel 75x40x6 -2.8 mtr.long, 4 nos.(6.8K.g. per mtr.)	K.g.	76.16	
5	Cantilever chhanel for supporting AB Switch arm, 75x40x6-1 mtr. Long, 2 nos.(6.8 K.g. per mtr.)	K.g.	13.6	
6	Cantilever chhanel 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	
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	
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	
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	
10	11KV AB Switch 3 Pole (200 Amp)	Set		1
11	11KV HG Fuse 3 Pole (200 Amp)	No.		1
12	11 KV L.A. 12KV-10KA	No.		3
13	H.T.stay set (Complete)	Set	2	
14	H.T. Stay Insulator	No.	2	
15	H.T. Stay clamp (1.95 K.g./ Pair)	Pair	2	
16	7/10 SWG Stay Wire	K.g.	20	
17	Fixing of stay set (with concreting)	No.	2	
18	GI Pipe Earthing 40 Dia Medium gage 3 mtrs. Long	No.		5
19	No.6 GI Wire	K.g.	20	
20	40x6mm GI Flat for nutral	K.g.	20	
21	Concreting of Pole	NO	2	

22	Materials for Massionary work for Earth Pit,Charcoal, Salt etc including construction of earthing chamber (Size: 2'x2') and RCC slab cover	No.	5	
23	100mm2 AAAC	Km		0.04
24	Red Oxide paint	Ltr	3	
25	All. Paint	Ltr	4	
26	Black Paint	Ltr	0.5	
27	MS Nut , Bolt & Washer	K.g.	36	
28	100KVA, 11/0.4KV 3 star rated TFR	No		1
29	L.T. Distribution box for 100KVA	No.		1
30	3 1/2 x 120mm2 PVC Cable	Mtr.	15	
31	Barbed Fencing (size 15'x10')with constn. of retaining wall ,erection of RCC fencing post, Sand filling and metal spreading, Fixing of Iron gril gate etc	No	1	
32	Sundries for survey , PVC tape, Ampire tape,Danger Board, small size nut & Bolt preparation of drawing cable socket etc	LS	1	

ANNEXURE- VIII

Cost analysis for construction of Line DP over 9 mtr long 150x150 mm RS Joist without transformer				
Sl.No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	150*150 mm RS Joist, 9 mtr long	Kg	0	2
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	
3	Bracing angle 50x50x6 mm -13.4 mtr.	K.g.	60.3	
4	11 K.V.GI Pin	No.	3	
5	11 K.V. Pin Insulator	No.	3	
6	11 K.V.T &C H.W. Fitting	No.	6	
7	11 K.V. T&C DISC Insulator	No.	6	
8	H.T. Stay set (Complete)	Set	2	
9	H.T. Stay Insulator	No.	2	
10	Fixing of stay set (with concreting)	No.	2	
11	H.T. Stay clamp	Pair	2	
12	7/10 SWG Stay Wire	K.g.	20	
13	No.6 GI Wire	K.g.	20	
14	Earthing of Support (Coil Type)	No.	2	
15	Concreting of Pole	NO	2	
16	Red Oxide paint	Ltr	3	
17	All. Paint	Ltr	4	
18	Black Paint	Ltr	0.5	
19	MS Nut , Bolt & Washer	K.g.	15	
20	Sundries for survey , PVC tape, Ampire tape,Danger Board, small size nut & Bolt preparation of drawing cable socket etc	LS	1	

ANNEXURE- IX

COST ANALYSIS OF MATERIALS FOR CONSTRUCTION OF 1KM OF LT 3Q 4W LINE(3x50+1x35+ABC) OVER 8 MTR. LONG 200 KG. PSC POLE				
Sl.No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	8 Mtr. long 200 Kg. PSC Pole	No.	25	
2	LT Stay set Complete	Set	5	
3	7/12 SWG Stay Wire	K.g.	50	
4	LT Stay clamp	pair	5	
5	LT Stay Insulator	No.	5	
6	Fixing of stay set (with concreting)	No.	5	
7	Dead end clamp	No.	8	
8	Suspension clamp	No.	24	
9	Eye Hook for AB Cable	No.	32	
10	Nuts and Bolts	Kg	18	
11	Earthing Coil each 5th pole to earth	No.	5	
12	AB Cable(3 x50 + 1x35mm ²)	K.m.	0	1.03
13	Sundries for survey, tree cutting, insulated tape etc.	LS	1	

COST ANALYSIS OF MATERIALS FOR CONVERSION OF LT1Q2W BARE LT LINE to 3Q 4W LINE(3x50+1x35 ABC) OVER 8 MTR. LONG 200 KG. PSC POLE(Avg Span- 40Mtrs) for One KM				
Sl.No.	Description of Materials	Unit	Quantity supplied by Contractor	Quantity supplied by NESCO
1	8 Mtr. long 200 Kg. PSC Pole	No.	10	
2	LT Stay set Complete	Set	4	
3	7/12 SWG Stay Wire	K.g.	40	
4	LT Stay clamp	pair	4	
5	LT Stay Insulator	No.	4	
6	Fixing of stay set (with concreting)	No.	4	
7	Dead end clamp	No.	8	
8	Suspension clamp	No.	24	
9	Eye Hook for AB Cable	No.	32	
10	Nuts and Bolts	Kg	18	
11	Earthing Coil each 5th pole to earth	No.	5	
12	AB Cable(3 x50 + 1x35mm ²)	K.m.	0	1.03
13	Sundries for survey, tree cutting, insulated tape etc.	LS	1	