

CHAMUNDESWARI ELECTRICITY SUPPLY CORPORATION LIMITED

(A Government of Karnataka Undertaking)

Ph : 0821 - 2417110
Fax : 0821 - 2417107
E-mail cescgmty@rediffmail.com



Corporate Office
No.927, LJ Avenue,
New Kanthraj Urs Road,
Saraswathipuram,
Mysore 570 009.

No: GM(T)/EE(T)/AEE(T)-2/C1-2131/2012-13

Dated: - 6 MAR 2013

CYS 896

OFFICIAL MEMORANDUM

Sub: Adopting Common Schedule of Rates 2012-13.

Ref: Approved Note of Managing Director dated: 05.03.2013.

I am directed to accord approval for adopting the common SR 2012-13 w.e.f 12.03.2013 which is posted in CESC website www.cescmysore.org with following addition

“Additional provision of 20% towards labour charges in the employees cost may be paid only in respect of works taken up departmentally”.

B. N. Srinivasan
General Manager (Tech),
CESC, Mysore. 6/3/13

Copy to:

1. The Chief Engineer (Ele), O&M Zone, CESC, Mysore.
2. Controller(I/A)/Controller, CESC, Mysore.
3. Superintending Engineer (Ele), Procurement/Commercial/Projects, CESC, Mysore
4. All Superintending Engineer (Ele), Works/O&M Circle, CESC.
5. All Executive Engineer (Ele), O&M Division, CESC.
6. All Assistant Executive Engineer (Ele), O&M Sub-Division, CESC and to bring to the notice of your section officers.
7. PS to MD/DT/FA to place before the Hon'ble MD/DT/FA.

PART - 6

Special Locality Allowance

Locality allowance at the rate noted below be given over and above the schedule of labour for the listed areas

Sl.No.	Name of ESCOM	Area	Percentage over & above SR
1	BESCOM	Davanagere District: Channagiri, Honnalli Taluks	20
		Tumkur District: Pavagada Taluk.	10
		All Divisions coming under Bangalore Metropolitan Area Zone	15
		Anekal, Chandapura, Hosakote & Devanahalli. In BRAZ	10
2	MESCOM	South Kanara District: Bantwala,Mangalore,Sulya,Puttur,Belthanga di Taluk	45
		Udupi District: Udupi,Kundapura,Karkala Taluk	45
		Chickmagalur District: Kadur,Chichmagalur,Koppa,Tarikere,Mudigere,Narasimharajapura,Sringeri Taluk	35
		Shimoga District: Hosanagara,Thirthalli,Sagara,Soraba,Shikaripura Taluk	35
		Shimoga District: Shimoga,Bhadrawathi,Taluks	25
3	HESCOM	Dharwad District: a) Kalghatagi b)Dharwad Taluk	30 20
		Haveri District: a)Hanagal,Herikerur b)Byadagi,Shiggon,Savanur Taluks	30 20
		Belgaum District: Khanapura Taluk Hukkeri, Belgaum,Bailahongala Soundathi Taluks	20
		Uttar Kannad District: Karwar,Joida,Haliyal,Sirsi,Mundagod,Yellapur,Bhatakal,Sidapur,Honnavar,Kumta and Ankola.	40

Sl.No.	Name of ESCOM	Area	Percentage over & above SR
4	CESCO	Kodagu District: Madikeri, Virajpet, Somwarpet Taluks	40
		Mysore District: H.D.Kote, Hunsur and piriypattana	30
		Chamaraj Nagar District: Gundlupet, Chamarajanagar, Kollegal Taluk	30
		Hassan District: Sakaleshpura, Hassan, Arakalagudu, Belur, Alur.	40
5	GESCOM	Taluks: Raichur, Koppal, Bellary, Gangavathi, Sandur, Manvi, Sindhanur, Shahapur, Jewargi, Sedam	15

Note: In case of civil works where KPWD SR rates are adopted, the locality allowance as applicable in KPWD SR shall be followed.

Scale of Inspection Fees of Electrical Inspectorate Schedule

I. Fees for Initial Inspections:

SCALE "A"

For an inspection or test of any generating station, receiving station or other places in which energy is generated, transmitted, received or distributed at a rate exceeding 250 Watts and a voltage of 100 Volts.

Sl. No.	Capacity	Fees in Rs.
i)	Domestic lighting sets in residential premises with 10 kW and below	100/-
ii)	For cases other than mentioned in item (1) above:	
	a) Upto and including 10 kVA	600/-
	b) Above 10 KVA up to and including 100 kVA	800/-
	c) Above 100 kVA up to and including 500 kVA	1200/-
	d) Above 500 kVA up to and including 1000 kVA	2400/-
	e) i) Above 1000 kVA up to and including 5000 kVA	5000/-
	ii) For every additional 1000 kVA or part thereof in excess of 5000 kVA	An additional fee of Rs.500/- per 1000 kVA shall be levied in excess of e(i) above.

Notes:

In the case of generating station or other place in which energy is generated the fee shall be paid by the Supplier or the person generating energy. In the case of receiving station, the fee shall be paid by the Owner.

The fee shall be levied separately for individual equipment.

The equipment means capacitor bank in outdoor sub-station, generators, power/ distribution / furnace / unit ratio transformer (excluding welding and instrument transformers).

SCALE "B"

For an inspection, examination or test made in pursuance of rule 50 to 70 of the Indian Electricity Rules 1956 or under any applicable rules and regulations made under electricity act 2003, where energy is or is about to be supplied or used at extra high, high and medium voltage except in these cases to which scales A and C to H of this Schedule specifically refer.

Sl. No.	Capacity	Fees in Rs.
	Up to and including 5 kW	200/-
	Above 5 kW up to and including 50 kW	300/-
	Above 50 kW up to and including 100 kW	1000/-
	Above 100 kW up to and including 500 kW	1500/-
	Above 500 kW up to and including 1000 kW	2000/-
	Above 1000 kW up to and including 5000 kW	5000/-
	For every additional 1000 kVA or part thereof in excess of 5000 kVA	An additional fee of Rs.500/- per 1000 kW shall be levied in excess of "6" above.

For inspection of multistoried building (more than 15 meters in height from ground level to roof level) in pursuance of rule 50A of IE rules 1956 or under any applicable rules and regulations made under electricity act 2003

Sl. No.	Capacity	Fees in Rs.
	For Multistoried Building up to six floors including basement and ground floor (for each block of a building)	3500/-
	For Multistoried Building having more than six floors including basement and ground floor (for each block of a building)	4750/-
	For any addition or alteration to the Multistoried building	3000/-

Note (for both a & b):

1. The fee shall be paid by the owner to whom energy is or is about to be supplied.
2. Separate fee shall be levied for inspection of X-rays, neon signs, lifts, sub-station and standby generators according to the respective scale of fees.
3. The fee is inclusive of connected switch gear and cables.
4. For HV motor load, fee should be levied separately for individual equipment.
5. For MV load (i.e. Motor, welding transformer etc.), fees shall be levied on the total connected load on each MCC of every transformer or generator.

SCALE "C"

Fee for an inspection, examination or test of any electrical installation, appliances or apparatus (other than a generating Station or a receiving station for which a separate fee will be charged under scale "A" in a factory within the meaning of the factories Act (XXIII) of 1948 to which energy is supplied by the ESCOMs or Licensee or in which energy is generated.

Sl. No.	Capacity	Fees in Rs.
	For power	Fees as per scale 'B' be applied
	For lighting or for purposes other than power provided no fees under this item shall be charged in respect of an electric installation appliance or apparatus in any factory where not more than twenty workers are employed)	Rs. 50/- per kW or part thereof subject to maximum of Rs.500/-

Note:

If any factory of which energy is supplied by a licensee or in which energy is generated both for lighting and for power, separate fee under Clause (i) and (ii) should be charged.

The fee shall be paid by the owner.

SCALE "D"

For an inspection or of examination of service line and connected metering apparatus on consumer premises in pursuance of Rules 30 and 31 of the Indian Electricity Rules 1956 or any applicable rules and regulations made under electricity act 2003.

Sl. No.	Capacity	Fees in Rs.
1.	Low or medium voltage service line	240/-
2.	High or extra high voltage service line	600/-

Note: The fee shall be paid by the licensee or the supplier.

SCALE "E"

Fee for inspection of Neon sign and X-Ray installations in pursuance of rule 71 & 73 of IE rules 1956 or any applicable rules & regulations made under Electricity Act 2003.

Sl. No.	Particulars	Fees in Rs.
	Neon Sign	500/- per equipment
	X-ray / CT scan etc similar equipment	750/- per equipment

Note:

The fee shall be paid by the owner to whom energy is or about to be supplied.

Separate fee shall be levied for Lifts, sub-station and standby generators according to the respective scale of fees.

The fee is inclusive of connected switch gear and cables.

SCALE "F"

For an inspection of one aerial line crossing the other aerial line in pursuance of Rule 87 of the Indian Electricity Rules, 1956 or under any applicable rules & regulations made under Electricity Act 2003.

Sl. No.	Particulars	Fees in Rs.
For an inspection, examination of every new aerial line including a service line crossing either above or below a telegraph, telephone or other aerial line.		
	For inspection of First Crossing	240/-
	For Inspection of every additional crossing	100/-

Note:

1. The fees shall be paid by the person whose line was last erected.

SCALE "G"

The fee for any inspection or examination of an aerial line or underground cable in pursuance of Rule 39,66,77 to 81 and 85 etc., of I.E. Rules 1956 or under any applicable rules & regulations made under EA 2003.

Sl. No.	Particulars	Fees in Rs.
1.	For an inspection or examination of an extra high voltage line or cable	Rs. 500/- per km or part thereof subject to a minimum of Rs. 2500/-.
2.	For an inspection or examination of a high Voltage line or cable.	Rs. 100/- per km or part thereof subject to a minimum of Rs. 1000/-.
3.	For an inspection or examination of medium or low voltage aerial distribution main or cable.	Rs. 100/- per km or part thereof subject to a minimum of Rs. 500/-.

Note:

The fee shall be paid by the supplier or owner.

SCALE "H"

Fee for the inspection or examination of Switchgear:

Sl. No.	Particulars	Fees in Rs.
	For Low or Medium Voltage	200/-
	For High voltage	600/-
	For Extra High voltage	1200/-

Note:

1. The fee shall be paid by the supplier or owner or occupier
2. Switch Gear includes Fuses, Isolators, circuit breakers, Lightning Arresters, Protection C.T & P.T along with connected control cables & jumps.
3. If more than one switchgear of the same class of voltage is connected either to primary or secondary side of a transformer or to a generator, all the switchgears at each side shall be considered as single for the purpose of calculation of fees.

II. FEE for Periodical Inspections:

SCALE "I"

For an inspection or test of any generating station, receiving station or other places in which energy is generated, received or distributed at a rate exceeding 250 Watts and a voltage of 100 Volts.

Sl. No.	Capacity	Fees in Rs.
1	Domestic lighting sets in residential premises with 10 kW and below	100/-
2	For cases other than mentioned in item (1) above:	
	Upto and including 10 kVA	200/-
	Above 10 KVA up to and including 100 kVA	300/-
	Above 100 kVA up to and including 500 kVA	700/-
	Above 500 kVA up to and including 1000 kVA	1800/-
	Above 1000 kVA up to and including 5000 kVA	5000/-
	For every additional 1000 kVA or part thereof in excess of 5000 kVA	An additional fee of Rs.500/- per 1000 kVA shall be levied in excess of "e" above.

Note:

1. In the case of generating station or other place in which energy is generated the fee shall be paid by the Supplier or the person generating energy. In the case of receiving station, the fee shall be paid by the Owner.
2. The fee shall be levied separately for individual equipment.
3. The equipment means capacitor bank in outdoor sub-station, generators, power/ distribution / furnace / unit ratio transformer (excluding welding and instrument transformers).

SCALE "J"

- a) For an inspection, examination or test or installation, made when energy is used at extra high, high and medium voltage except in the cases to which scales 'I', 'K' to 'O' of this schedule specifically refer:

Sl. No.	Capacity	Fees in Rs.
	Up to and including 5 kW	200/-
	Above 5 kW up to and including 50 kW	300/-
	Above 50 kW up to and including 100 kW	1000/-
	Above 100 kW up to and including 500 kW	1500/-
	Above 500 kW up to and including 1000 kW	2000/-
	Above 1000 kW up to and including 5000 kW	5000/-
	For every additional 1000 kW or part thereof in excess of 5000 kW	An additional fee of Rs.500/- per 1000 kW shall be levied in excess of "6" above.

- b) For inspection of multi storied Building (more than 15 meters in height from ground level to roof level)

Sl. No.	Capacity	Fees in Rs.
1.	For Multistoried Building up to six floors including basement and ground floor (for each block of a building)	700/-
2.	For Multistoried Building having more than six floors including basement and ground floor (for each block of a building)	3000/-

Note (for both a & b):

1. The fee shall be paid by the owner to whom energy is or is about to be supplied.
2. Separate fee shall be levied for inspection of X-rays, neon signs, lifts, sub-station and standby generators according to the respective scale of fees.
3. The fee is inclusive of connected switch gear and cables.
4. For HV motor load, fee should be levied separately for individual equipment.
5. For MV load (i.e. Motor, welding transformer etc.), fees shall be levied on the total connected load on each MCC of every transformer or generator.

SCALE "K"

Fee for inspection of Neon sign and X-Ray installations in pursuance of rule 71 & 73 of IE rules 1956 or any applicable rules & regulations made under Electricity Act 2003.

Sl. No.	Particulars	Fees in Rs.
	Neon Sign	Rs.300/- per equipment
	X-ray / CT scan etc similar equipment	Rs.500/- per equipment

Note:

The fee shall be paid by the owner to whom energy is or about to be supplied.

Separate fee shall be levied for Lifts, sub-station and standby generators according to the respective scale of fees.

The fee is inclusive of connected switch gear and cables.

SCALE "L"

For an inspection, examination or test of any electrical installation appliances or apparatus (other than a generating station or a receiving station for which a separate fee will be charged under scale "I") **in a factory within the meaning of the factories Acts 1948** to which energy is supplied by the ESCOMS or Licensee or in which energy is generated.

Sl. No.	Capacity	Fees in Rs.
1.	For power	Fees as per scale 'J' be applied
2.	For lighting or for purposes other than power provided no fees under this item shall be charged in respect of an electric installation appliance or apparatus in any factory where not more than twenty workers are employed)	Rs.50/- per kW or part thereof subject to maximum of Rs.500

Note:

If any factory of which energy is supplied by a licensee or in which energy is generated both for lighting and for power, separate fee under Clause (i) and (ii) should be charged.

The fee shall be paid by the owner or consumer.

SCALE "M"

For an inspection or examination of service line and connected metering apparatus on consumer premises.

Sl. No.	Capacity	Fees in Rs.
1.	Low or medium voltage service line	100/-
2.	High or extra high voltage service line	600/-

Note:

1. The fee shall be paid by the licensee or the supplier.

SCALE "N"

Fee for inspection or examination of overhead line or cable:

Sl. No.	Particulars	Fees in Rs.
	For an inspection or examination of an extra high voltage line or cable	Rs. 300/- per km or part thereof subject to a minimum of Rs. 1200/-.
	For an inspection or examination of a high Voltage line or cable.	Rs. 100/- per km or part thereof subject to a minimum of Rs. 500/-.
	For an inspection or examination of medium or low voltage aerial distribution main or cable.	Rs. 50/- per km or part thereof subject to a minimum of Rs. 200/-.

Note:

The fee shall be paid by the supplier or owner or occupier.

SCALE "O"

Fee for the inspection or examination of Switchgear:

Sl. No.	Particulars	Fees in Rs.
1.	Low or Medium voltage	200/-
2.	High voltage	600/-
3.	Extra High voltage	1200/-

Note:

The fee shall be paid by the owner or consumer or occupier.

Switch Gear includes Fuses, Isolators, circuit breakers, Lightning Arresters, Protection C.T & P.T along with connected control cables & jumps.

If more than one switchgear of the same class of voltage is connected either to primary or secondary side of a transformer or to a generator, all the switchgears at each side shall be considered as single for the purpose of calculation of fees.

III. FEES for other services of the Electrical Inspector

SCALE "P"

Sl. No.	Capacity	Fees in Rs.
1.	For an inspection of OH line and for issue of a clearance certificate under Rule 77,79,80,82 & 83 of I.E. Rules 1956 or under any rules and regulations made under electricity act 2003 after due measurement.	350/-

Note:

The fee shall be paid by the person who proposes either to erect a new building or structure or to make any temporary addition or alteration in or upon any building or structure.

SCALE "Q"

Sl. No.	Capacity	Fees in Rs.
1.	For an inspection or examination of any electric traction system including trolley wires and over head equipments and Test of bending and package currents.	Rs.500/- per day or part thereof.

Note:

The fee shall be paid by the Licensee or the owner of the electric traction system as the case may be.

SCALE "R"

Fee for testing energy meters and connected CT & PT

Sl. No.	Particulars	Fees in Rs.
1.	For testing a single meter of any description in the laboratory	
	Without CT & PT	125/-
	With CT & PT	250/-
2.	If meter is to be tested on the consumers premises	
	a) Without CT & PT	1000/-
	b) With CT & PT	5000/-

Note:

The fee shall be paid by the person or agency or firm or any other body at whose request the test is conducted.

SCALE "S"

Fee for an inspection or examination or test of voltage within the consumer premises at the request of the consumer of the licensee and issue of a certificate.

Sl. No.	Particulars	Fees in Rs.
	Low voltage and medium voltage	120/-
	High voltage	240/-

Note:

1. For inspection and examination or test of voltage and reading voltage for a duration of 24 hours as above Rs.50/- in addition to the amount charged for each item above.
2. The consumer shall pay the fee in the first instance but the Electrical Inspector shall decide as to who should pay the fee when reported as dispute between the consumer and the supplier.

SCALE "T"

Sl. No.	Particulars	Fees in Rs.
	Fee for an inspection, examination or test of any main or distributing main or service line for the existence of leakage therein which may result in electrolysis to other pipe or to any appliance connected with.	Rs.240/- for the first hour and thereafter Rs.50/- per hour or thereof

Note:

1. If any leakage is discovered in any street main, distributing main or service line, the fee shall be paid by the Licensee or the owner of the main or service line as the case may be.
2. If a leakage is discovered the fee shall be paid by the owner of the water gas or other pipe or of all appliances connected therewith.

SCALE "U"

Sl. No.	Particulars	Fees in Rs.
	Fee for testing an Installation for the existence of leakage to earth.	Rs.240/-

Note:

1. The fee shall be paid by the applicant.

SCALE "V"

Sl. No.	Particulars	Fees in Rs.
	For localizing of the leakage to earth in any installation.	Rs.240/- for the first hour and part thereof and thereafter Rs.50/- per hour or part thereof.

Note:

The fee shall be paid by the applicant.

SCALE "W"

Fee for witnessing testing of single energy meter along with connected CT and PT.

Sl. No.	Capacity	Fees in Rs.
	Single Phase LV installation	300/-
	Three phase MV installation	500/-
	HV installation	1000/-
	EHV installation	3000/-

Note:

1. The fee shall be paid by the applicant.

SCALE "X"

Fee for testing of Earth Electrode

Sl. No.	Particulars	Fees in Rs.
1.	Fee for testing of Earth Electrode	Rs. 50/- per earth electrode.

Note:

The fee shall be paid by the applicant.

SCALE "Y"

INSPECTION OF TEMPORARY INSTALLATIONS

For inspection and to issue electrical fitness certificate to amusements, circus, jatra, yakshagana, fair etc.

Sl. No.	Capacity	Fees in Rs.
1.	Up to and including 5 kW	300/-
2.	Above 5 kW up to and including 50 kW	500/-
3.	Above 50 kW up to and including 100 kW	600/-
4.	Above 100 kW up to and including 500 kW	1200/-
5.	Above 500 kW up to and including 1000 kW	2400/-
6.	Above 1000 kW up to and including 5000 kW	3000/-
7.	For every additional 1000 kW or part thereof in excess of 5000 kW	An additional fee of Rs.500/- per 1000 kW shall be levied in excess of "6" above.

Note:

1. The fee shall be paid by the owner to whom energy is or about to be supplied.
2. Separate fee shall be levied for Lifts, sub-station and standby generators according to the respective scale of fees.
3. The fee is inclusive of connected switch gear and cables

SCALE “Z”

Fee for security an approval of drawings detailing method of construction of the following types of installations.

Sl. No.	Capacity		Fees in Rs.
1.	Drawing of generating sets:		
	a)	Upto and including 100 kVA	250/-
	b)	Above 100 KVA up to and including 1000 kVA	600/-
	c)	Above 1000 kVA up to and including 5000 kVA	2000/-
	d)	Above 500 kVA	2500/-
2.	Drawing of transformer centers and HT installations		
	a)	Up to and including 100 kVA	500/-
	b)	Above 100 kVA & upto 1000 kVA	1000/-
	c)	Above 1000 kVA up to and including 5000 kVA	2000/-
	d)	Above 5000 kVA	3000/-
3.		M.S. Building up to and including 6 floors including basement and ground floor	2000/-
		M.S. Building having more than 6 floors including basement and Ground floor.	3000/-
4.	Medium pressure and low voltage consumer installations		200/-
5.	Addition and alternations to existing installations		
	a)	Up to and including 100 kW	500/-
	b)	Above 100 kW up to and including 1000 kW	1000/-
	c)	Above 1000 kW up to and including 5000 kW	1500/-
	d)	Above 5000 kW	2000/-
6.	Cinema theatres/ auditorium		1000/-
7.	Lifts/escalators etc		500/-
8.	Others (other than drawings detailed under 1 to 7 above)		1000/-

SCALE “ZA”

Issue of Electrical Certificate of any installation at the request of any supplier or consumer not falling within the purview of the above scales and certification of testing equipment of testing Agencies:

Sl. No.	Capacity	Fees in Rs.
	For low voltage installations	240/-
	For medium voltage installations	350/-
	For High or Extra high voltage installations	700/-
	For certification of testing equipments of Testing Agencies	1000/-

Note:

The fee shall be paid by the applicant.

SCALE "ZB"

Inspection Fee for Lifts, Escalators, etc.

Sl. No.	Capacity	Fees in Rs.
1.	Initial inspection of Lifts	2000/-
2.	Periodical inspection of Lifts	1000/-
3.	Initial & Periodical inspection of Escalators etc	2500/-

SCALE "ZC"

Inspection Fee for Cinemas and Videos (both initial and Periodical)

Sl. No.	Capacity	Fees in Rs.
	Permanent theatres and Multiplex Cinema per screen	2000/-
	Semi- permanent theatres	1500/-
	Touring/Temporary cinemas/video	500/-

SCALE "ZD"

Periodical Inspection Fee for the Govt. owned Electricity supply companies (ESCOMS), KPTCL, KPCL & Hukkeri co-operative society installations.

Transformers and Generators:

Sl. No.	Capacity	Fees in Rs.
1.	Up to 100 kVA	450/-
2.	Above 100 kVA up to including 500 kVA	1000/-
3.	Above 500 kVA up to including 1000 kVA	1800/-
4.	Above 1000 kVA for every additional 1000 kVA or part thereof in excess of 1000 kVA	An additional fee of Rs. 120/- per 1000 kVA shall be levied in excess of "3" above

Note:

1. The fee shall be levied separately for individual equipment.
2. The equipment means capacitor bank in outdoor sub-station, generators, power/distribution/furnace/ unit ratio transformer.

• Switchgears:

Sl. No.	Capacity	Fees in Rs.
	For Low / Medium voltage	180/-
	For High voltage	550/-
	For Extra High voltage	1200/-

Note:

Switch Gear includes Fuses, Isolators, circuit breakers, Lightning Arresters, Protection C.T & P.T along with connected control cables & jumps.

If more than one switchgear of the same class of voltage is connected either to primary or secondary side of a transformer or to a generator, all the switchgears at each side shall be considered as single for the purpose of calculation of fees.

• Lines and Cables:

Sl. No.	Capacity	Fees in Rs.
1.	For Low/ Medium voltage	Rs.40/- per km or part thereof Subject to a minimum of Rs.90/-
2.	For High voltage	Rs.50/- per km or part thereof Subject to a minimum of Rs.350/-
3.	For Extra High voltage	Rs.100/- per km or part thereof Subject to a minimum of Rs.700/-

Schedule of Rate for Common SR 2012-13 (11kV System) Labour

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	1	Digging of Pits		
	1.1	Digging of Pits 1.8 mtr depth for erection of 9 to 10 mtr Long Steel/ RCC/PSC supports as per approved Drawing.		
1	1.1.1	Ordinary Soil	Per pit	267
2	1.1.2	Hard Soil	Per pit	916
3	1.1.3	Hard latterite Soil	Per pit	1016
	1.2	Digging of Pits 1.5 mtr depth for erection of 7.5/8 mtr Long Steel/RCC/PSC/PCC supports as per approved Drawing.		
4	1.2.1	Ordinary Soil	Per pit	216
5	1.2.2	Hard Soil	Per pit	741
6	1.2.3	Hard latterite Soil	Per pit	820
	1.3	Digging of Pits 2.0mtr depth for erection of 9.5mtr Long RCC supports (350Kg Working load for 33KV) as per approved Drawing.		
7	1.3.1	Ordinary Soil	Per pit	293
8	1.3.2	Hard Soil	Per pit	927
9	1.3.3	Hard latterite Soil	Per pit	1103
	1.4	Digging of Pits 2.2mtr depth for erection of 11mtr Long RCC/PSC supports as per approved Drawing.		
10	1.4.1	Ordinary Soil	Per pit	328
11	1.4.2	Hard Soil	Per pit	1243
12	1.4.3	Hard latterite Soil	Per pit	1243
	1.5	Digging of Pit 2.5 mtr depth for erection of 11mtr long tubular spun pole as per approved Drawing.		
13	1.5.1	Ordinary Soil	Per pit	805
14	1.5.2	Hard Soil	Per pit	1610
15	1.5.3	Hard latterite Soil	Per pit	1610
	1.6	Digging of pit. For providing GI Pipe type Earthing		
16	1.6.1	Ordinary Soil	Per pit	323
17	1.6.2	Hard Soil	Per pit	1268
18	1.6.3	Hard latterite Soil	Per pit	1406
	1.7	Digging of Pit for GUY SET		
19	1.7.1	Ordinary Soil	Per pit	138
20	1.7.2	Hard Soil	Per pit	353
21	1.7.3	Hard latterite Soil	Per pit	389
		Note: For Hard Latterite Soil and Hard Rock Soil works have to be classified and certified by Executive Engineer, where ever these types of soil is encountered.		

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
		Concrete works		
	1.8	Providing cement concrete to poles and Guy sets with material and labour including necessary curing etc., complete (cost does not include excavation)		
		A) Base concrteing with CC 1:4: 8		
22		a) Pole base for 9.5/9/8 mt supports (500x650x150mm)	each	182
23	1.8.1	b) Pole based for 9mtrs square pole (650x650x150mm)	each	237
24		c) Pole base 11mtr spun pole (1000x1000x150mm)	each	603
		B) Pole concreting with CC 1:2:4 (without coping) (Rs. 4756/cmt) (4404*1.08)		
25		a) 9mtrs support (500x500x1700mm)	each	2079
26	1.8.2	b) 9.5 mtrs support (500x500x1850mm)	each	2262
27		c) 8mtrs support (400x400x1680mm)	each	1197
28		d) Guy concreting with Boulders, Mud & Sand As per Drawing No. BESCOM/GM/CP/7/dt: 24.10.07. (with out cement)	each	112
		e) Guy concreting as above but with cement concrete of concrete mix M5 with OPC cement @ 160 Kgs. At Rs. 3396/cubic Mtrs.		794
		C) providing coping for pole with CC 1:2:4 (As per actuals)		
29	1.8.3	a) 150mm around poles for a height of 300mm for RCC,PSC,PCC poles/ I-beam/ Rail steel sections	each	256
30		b) 390mm all around the pole for an height of 300mm for Spun poles	each	666
		D) Guy concreting in Marshy area		
31	1.8.4	a) Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450mm	each	794
	2	Erection of Poles		
32	2.1	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg(50 lbs) Rail, 27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100 mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refilling with soil and ramming as approved drawing	Nos.	216
33	2.2	Same as above but erection of 7.5 to 8.0 mtr long steel supports (18.75 kgs., /41Lbs) Rail, 125x75 mm, Ibeam in pit of 1.5 mtr depth.	Nos.	192
34	2.3	Same as above but erection of RCC/PCC/PSC poles of 7.5 to 8 mtr long in pit of 1.5 mtr depth.	Nos.	385

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
35	2.4	Erection of RCC/PSC poles 9 to 10 mtr long but in a pit of 1.8 mtr depth	Nos.	483
36	2.5	Erection of RCC poles 9.5 mtr long 350Kg WL but in a pit of 2.0 mtr depth for 33KV lines	Nos.	680
37	2.6	Errrection of 11 mtr PSC pole with working load of 365kg in a pit of 2 mtrs depth.	Nos.	770
38	2.7	Erection of 11mtr long Concrete spun pole in a pit of 2.5 mtr depth.	Nos.	861
39	2.8	Erection of 2 pole structure formed out of SM rails or I -Beam of sizes 200x100 175x90 mm, 225x100mm of 9 to 10 mtr long in pits of 1.8 mtr depth for line deviation with necessary foundation, inclusive of fixing of cross Arms, Braces, Strain Insulators.	Per structure	1349
40	2.9	Same as above using RCC poles 9 mtr to 10 mtr long	Per structure	1767
41	2.10	Same as above using RCC poles 7.5/8 mtr long in pits of 1.5 mtr depth.	Per structure	1767
42	2.11	providing spiral earth electrode type earthing along with pole (without charcoal, salt etc..)	Nos.	39
43	2.12	Errrection of H Frame.	Nos.	135
44	2.13	Transformer Platform: Erection of Double pole transformers structure including fixing of structural materials, erection of poles etc., complete for mounting of transformers as per approved drawing using I-Beems or MS Rail 8 mtrs. long.	Per structure	1772
	2.14	Same as item No. 9 with RCC pole 9/8 mtr. long.		
	2.15	Upto 63 kVA	Per structure	
45	2.15.1	with 9 mtrs. RCC pole		2378
46	2.15.2	with 8 mtrs. RCC pole		2090
	2.16	100 to 250 kVA	Per structure	
47	2.16.1	with 9 mtrs. RCC pole		2465
48	2.16.2	with 8 mtrs. RCC pole		2271
	2.17	Above 250 kVA	Per structure	
49	2.17.1	with 9 mtrs. RCC pole		2724
50	2.17.2	with 8 mtrs. RCC pole		2440
	3	Erection of single pole mounted Transformer structures		
51	3.1	for 250 kVA Transformer on the existing 11 mtrs. Spun pole (excluding erection of pole)	Per structure	1439
52	3.2	for 100 kVA on the existing 9 mtrs. RCC pole (squre section) (excluding erection of pole)	Per structure	720

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
53	3.3	for 25/63 kVA on the existing 9 mtrs. RCC pole (square section) (excluding erection of pole)	Per structure	720
54	3.4	3 Pole structure: Erection of 3 pole structure formed with 3 Nos 9 mtr RCC Pole with platform for mounting 100 to 500 kVA transformers as per approved Drawing including fixing structure materials, erection of poles etc., complete. (excluding excavation charges)	Per structure	3637
55	3.5	4 Pole Structure: Erection of 4 pole structure formed with SM Rail or I Beam of size 200x100 mm 175x90 mm, 225x100 mm size, 9 to 10 mtr long pits for line deviation with necessary foundation, including fixing of cross arm, braces, strain/disc insulators.	Per structure	3003
56	3.6	Erection of 4 Pole structure as in item, 11, with platform for mounting of Transformer. (excluding excavation charges)	Per structure	3439
57	4	Construction of platform with size stone, cement concert for erection of 500 kVA Transformer/Metering cubicle / Heavy Equipment. Construction of platform (1.5x1.5x1.2) mtr in size stone, for erection of transformers/Heavy equipment including all materials, labour. Excavation of (1.5x1.5x1) mt pit for foundation providing and laying cement concrete 1:4:8 for foundation laid in 1cm thick layers, well compacted curing etc., complete providing and construction of stone masonry 0.9m below ground level and 1.2m above ground level neatly hammer dressed in cement mortar 1:6 cutting complete providing pointing to stone masonry in cement mortar 1:3 after racking joint & nicely lining curing etc., plastering the concrete surfaces in cement mortar 1:4 including smooth rendering curing etc., curing at every stages completely.	Per structure	20438
58	4.1	Fixing of 2 Pin cross arm with insulator and Braces fixing	each	68
59	4.2	Fixing of 4 Pin cross arm with insulator and Braces fixing.	each	68
60	4.3	Fixing of V-Shape/Horizontal cross arm including single top support Braces and Insulators fixing.	each	70
61	4.4	Fixing of V-Shape/Horizontal cross arm for DC Line including Braces and Insulators fixing. (Without Single Top Support)	each	58
62	4.5	Fixing of 4 Pin double cross arm including braces and insulators.	set	119
63	4.6	Fixing of HT/LT single top support .	each	45
64	4.7	Fixing of Earth Guard Stirrup	Set of 2 nos	70
	5	Fixing of Anticlimbing Device		

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
65	5.1	Spike Type	per set	16
66	5.2	G.I. Barbed Wire (12 mtrs/1kg)	Nos.	18
67	5.3	a) Fixing of GUY Sets with break insulators making use of 7/3.15 mm (7/10 SWG) galvanised steel wire with turn buckle and anchoring arrangement as per approved drawing. (Excluding excavation of PIT)	per set	113
68		b) Same as above but using 2 strain insulators (No.15)	per set	126
69	5.4	Fixing guarding including fixing of necessary cross arms for existing HT and LT line at Road Crossing, Telephone Line Crossings up to span of 60 mtrs.	per set	427
70	5.5	Fixing guarding including fixing of necessary cross arms between HT and LT line up to a span of 40 mtrs.	per set	427
71	5.6	Above 40 Mtrs. Span	per set	750
72	5.7	Stringing of conductor wren, squirrel, weasel, binding of conductor on each insulator and dead ending on strain or disc/strain insulator by means of clamps.	per km/wire	1354
73	5.8	do - for Rabbit ACSR	per km/wire	1846
74	5.9	do - for Coyote ACSR	per km/wire	3225
	6	Erection of Transformer		
75	6.1	a) Erection of 25 to 63 kVA Transformer on Transformer structure.	each	483
76	6.2	-do- 100 kVA Transformer	each	644
77	6.3	-do- 200-250 kVA Transformer	each	966
78	6.4	-do- 300-500 kVA Transformer	each	1288
79	6.5	Providing GI Pipe Earthing for lightning arresters Transformer Neutral and Transformer Metal parts (Excluding digging of pits)	per set of 1 no. of electrode	82
80	6.6	Hiring of crane for erection of 250/500 kVA Transformer (applicable for maintenance works only and in case of non -availability of departmental crane)	Per Tr.	3500
81	6.7	Hiring of crane for releasing existing Transformer and erection of NEW 250 to 500kVA Transformers. (applicable for maintenance works only and in case of non -availability of departmental crane)	Nos.	4200
82	6.8	Hiring of crane for releasing existing Transformer and erection of NEW 250 to 500kVA Transformers. In case of failure and agumentation, (applicable for maintenance works only and in case of non -availability of departmental crane)		4200
		NOTE:- When the awards are issued for erection of New Transformers under labour awards, Hire charges are not payable for cranes hired. By the agencies.		

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	7	HT Metering		
83	7.2	Erection of HT metering Cubicle on Platform.	Nos.	966
	7.3	Erection of LT Feeder pillar box including necessary civil works like soil excavation & concreting etc. complete		
84	7.4	upto 8 ways	Nos.	700
85	7.5	above 8 ways	Nos.	757
	8	Distribution Box for DTCs		
86	8.1	Fixing LT Distribution box for 100/ 250 / 500 KVA DTCs (Excluding wiring)	Per box	322
	9	Additional cost for making termination using H/Wedge Clamps		
87	9.1	Rabbit to Rabbit	Nos.	51
88	9.2	Coyote to Coyote	Nos.	68
89	9.3	Rabbit to Coyote	Nos.	68
90	9.4	Additional cost for making termination using H- Clamps along with 2 hole Paddle/In-Line Connector/Micro wedge connector.	set	140
	10	Fixing Metering Box for housing the ETV Meter 3-ph 4 wire along with CT's, Meter & wiring for DTC's		
91	10.1	25/63 kVA TC	per set	811
92	10.2	100 kVA TC	per set	811
93	10.3	250 kVA TC	per set	811
94	10.4	300/500 kVA TC	per set	811
	11	Fixing 3-phase LT Capacitor housed in a enclosure with necessary Fuses, wiring, mounting arrangement for		
95	11.1	15/25 kVA DTC, 3 kVAr	per set	270
96	11.2	63 kVA DTC, 9 kVAr	per set	270
97	11.3	100 kVA DTC, 18 kVAr	per set	318
98	11.4	250 kVA DTC, 27 kVAr	per set	372
99	11.5	500 kVA DTC, 54 kVAr	per set	389
	12	Errection & Commmissioning of 11kV Auto reclosures and Sectionalizers with remote communication capability		
100	12.1	Errection of fabricated steel structure for Seating Auto reclosures and Sectionalizers	per set	280

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
101	12.2	Errrection of 11kV Auto reclosures with control box GSM modem, connecting cable, control transformer, wiring testing and commissioning including parameterisation	per set	1960
102	12.3	Errrection of 11kV sectionalizers with control box GSM modem, connecting cable, PTs wiring testing and commissioning including parameterisation	per set	1680
103	12.4	Fixing 9.6kV, 200A long duration porcelein house Surge arrestors	each	84
	13	Installing RLMU for the existing Distribution T.C including wiring		
104	13.1	for 25 kVA	per set	2466
105	13.2	for 63 kVA	per set	2466
106	13.3	for 100 kVA	per set	2466
107	13.4	Fixing DOLO cutouts / Horn Gap Fuses including fixing of cross arms and wiring	each	100
108	13.5	Fixing of GOS including wiring (11kV SB 200A)	set	450
109		Fixing of GOS including wiring (11kV DB 400A)		500
110	13.6	Fixing of 3 Nos lightning arrestors including wiring.	set/3 Nos.	50
111	13.7	Fixing Pole Fuse Board	Nos	61
112	13.8	Fixing PVC pipe for taking the leads form the conductor to the pole fuse board (including taking the lead wire inside the PVC pipe & giving connection to the overhead line & pole fuse box/ Aerial fuse Board).	set	93
113	13.9	Fixing of LT Line spacers	Nos.	29
114	13.10	Releasing & Refixing of over head service mains (single phase / three phase) for consumer installation and street lighting and similar work (While exicuting reconductoring work)	Per connection / installation.	28
115	13.11	Releasing & Refixing of over head service mains (single phase / three phase) for consumer installation and street lighting and similar work (While replacing existing pole)	Per connection / installation.	42
116	13.12	Fixing and Wiring of single phase meter on the existing meter board (Including cost of releasing the existing meter if applicable)	Per connection	29
117	13.13	Fixing and Wiring of three phase meter on the existing meter board (Including cost of releasing the existing meter if applicable)	Per connection	48
118	13.14	Street Light and Other Works Fixing and Wiring Incandescent street Light Fitting with two Clamps.	set	267

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
119	13.15	Fixing and Wiring of FTL with suitable clamps bracket bolts and nuts using departmental material and departmental ladder vehicle under supervision of departmental Staff.	set	267
120	13.16	Fixing and Wiring as SV/M.V light Fittins with suitable clamps Brackets, lamps, Bolts and nuts using departmental Materials and departmental Lader vehicle under supervision of departmental Staff.	set	428
121	13.17	Fixing of Mercury Vapour Lamp fitting/ Ornamental Light Fitting with Contral Boxes etc.,	set	314
122	13.18	Fixing of LT Protection Kit	Per Kit	145
123	13.19	(a) Wiring of One circuit of LT Wiring Kit for for 25/63/100 KVA DTC to the existing LT protection Kit Kit / Distribution Box via metering box.	Nos.	402
124	13.20	(b) Wiring of Two circuits of LT Wiring Kit for for 25/63/100 KVA DTC to the existing LT protection Kit / Distribution Box via metering box.	Nos.	644
125	13.21	Fixing One Circuit of LT Wiring Kit for 250/500 KVA Transformers via metering box.	Per Circuit	515
126	13.22	Surveying for construction of HT and LT Lines duly furnishing single line diagram indicating pole locations	km	400
127	13.23	Numbering and Scheduling of poles	km	303
128	13.24	Magpying (Excluding Cost of paint etc.,)	km	120
129	13.25	Dismanting of Steel/ I- Beam	Nos.	90% of the pole erection charges.
130	13.26	Releasing of baliga pole	Nos.	85% of the 8 Mtrs. RCC Pole erection charges.
	14	Releasing & Restrining of loose spans, binding, straightening of inclined pole etc.		
131	14.1	a) Tightening of loose spans b) Weasel/ Squirrel c) Rabbit d) Cyote	km	90% of the corresponding strining charges.

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
132	14.2	Straightening of slant / bent poles	Nos.	75% of the corresponding erection charges.
		Note: Above works (3.53) has to be recorded in register maintained at SO/SD/Division office. Record has to be verified by Executive Engineer (Ele) before issuing approval for work orders /awards.		
133	14.3	Dismantling of 2 B&S to I/O copper or equivalent	km	531
134	14.4	Dismantling of copper conductor above 2 B&S.	km	856
135	14.5	Any Dismantling work Note: Please refer Page no. 361 (Circular BESCO/BC-35/07-08/Cys-86/Dt: 23.10.07) for Circular see Page.No.-----	Nos.	90% of the corresponding erection charges.
	15	Providing Coping with CC 1:2:4 proportion with necessary plastering, curing etc., complete		
136	15.1	150mm around poles for a height of 300mm for RCC, PSC, PCC Poles/ I-Beam/Rail steel sections.	Per coping	256
137	15.2	390mm all around the pole for an height of 300mm for Spun Poles	Per Coping	666
138	15.3	Providing cement concrete 1:2:4 for Anchor Rod in Marshy/Black Cotton Soil 600x600x450mm	Nos.	794
	16	Jungle Clearing: 3 mtrs corridor (1.5 mtrs on either side of line)		
	16.1	Trimming of trees and branches and clearing as per IE Rules.		
139	16.1.1	In Malnad/hilly areas if Jungle/trees/Plants/Shrubs exists only (once in two years)	km	2172
140	16.1.2	In Maidan (In accordance with necessity)	km	766
	16.2	As above for construction of new line including Trimming of Trees, if Jungle/Tree/Plant/ Shrubs Exists.		
141	16.2.1	Malnad/Hill Area	km	3884
142	16.2.2	Maidan Area	km	2321
	16.3	Cutting, Clearing of Vegetation Grass/shrubs such other small plants, including removal of Roots etc., in station yard/store yard.		
143	16.3.1	Maidan Area (Twice in year)	sq.mtr.	3
144	16.3.2	Malnad Area (Once in Three Months)	sq.mtr.	3

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
		Note: Locality allowance noted under Sl. No. 67 is not applicable to item No. 61 & 62 Transportation Rates:		
145	16.3.3	Transportation by Head Load (applicable only in case where the materials have to be carried / transported from the road side to the interiors using physical / Manual labour)		
146	16.3.4	Poles: for Transporting one pole (Not payable for distance less than 25 Mtrs)	Nos.	98
	17	Conductor:		
147	17.1	For Transporting 1 km Length Conductor (Not payable for distance less than 25 Mtrs)	per km	42
	18	Transformer:		
148	18.1	For Transportation 25 kVA Transformer (Not payable for distance less than 25 Mtrs).	Nos.	210
149	18.2	For Transportation 63 kVA transformer (Not payable for distance less than 25 Mtrs).	Nos.	350
150	18.3	For Transportation 100 kVA Transformer (Not payable for distance less than 25 Mtrs).	Nos.	350
	19	Hire Charges (These charges have to be specifically approved by the Corporate Office in respect of repair to transformers when applicable)		
151	19.1	Transportation using 7.5 / 10 Tons Lorry	km	Rs. 20 per Kms subjected to a minimum of Rs. 1000/- per day
152	19.2	Transportation using mini Lorry /Tempo	Km	Rs. 15 per Kms subjected to a minimum of Rs. 750/- per day
153	19.3	Loading of any type of material not covered specifically (cost includes crane charges if any).	MT	834
154	19.4	UnLoading of any type of material not covered specifically (cost includes crane charges if any).	MT	834
155	19.5	Loading of Power Transformer and other similar materials like switchgear cable drums, Drake /Lynx, conductors etc., (cost includes crane charges if any).	MT	926
156	19.6	Unloading of Power Transformer and other similar materials like switchgear cable drums, Drake/Lynx conductors etc., (cost includes crane charges if any).	MT	926

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	20	a) Loading and unloading of poles (loading of poles to vehicles at stores and unloading at workspot) NOTE:- Consolidated amount for both loading and unloading.		
157	20.1	8 mtr RCC/PSC poles	Nos.	45
158	20.2	9 mtr RCC/PSC poles	Nos.	60
159	20.3	8 mtr PCC pole	Nos.	37
	20.4	a) Loading of Transformer(when maintainance men for loading and unloading are not available in store)		
160	20.4.1	25 kVA	Nos.	115
161	20.4.2	63 kVA	Nos.	115
162	20.4.3	100 kVA	Nos.	173
163	20.4.4	250/300 kVA	Nos.	288
164	20.4.5	500 kVA	Nos.	575
	20.5	b) Un loading of Transformer		
165	20.5.1	25 kVA	Nos.	115
166	20.5.2	63 kVA	Nos.	115
167	20.5.3	100 kVA	Nos.	173
168	20.5.4	250/300 kVA	Nos.	288
169	20.5.5	500 kVA	Nos.	575
	21	Fixing of energy meter to non-metered I.P. sets 10HP and below: Including cost of all the materials like Meter Board, Channel cutouts and necessary wires required for the work.		
170	21.1	Fixing Single phase meter to IP Sets fixed inside Pump House	Per IP Set	554
171	21.2	Fixing 3 ph meter to IP Sets fixed in Pump House	Per IP Set	766
172	21.3	Fixing of mtrs. to IP sets, (where there is no pumphouse) where power supply is availed directly from the pole to the IP set and weather proof meter housing box is required (including cost of WP box).	Per IP Set	2561
	22	UG Cable Works		
173	22.1	Earth work excavation for cable trench of 0.5 to 0.75 mtr. Width and Depth upto 1 mtr. including trial pits, depositing on bank upto a lead of 50 mtrs, Supplying and Displaying necessary Danger Boards and Lighting, Using sight Rails and Sign Boards at every 100mtrs wherever necessary as directed.		

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
174	22.2	In Ordinary Soil	cmt	145
175	22.3	In Hard Soil	cmt	217
176	22.4	In Ordinary Rock without Blasting	cmt	193
177	22.5	In Ordinary Rock with Blasting	cmt	317
178	22.6	Hard Rock/Latterite Rock latterite Soil	cmt	781
		*Soil classification has to be certified by the concerned Executive Engineer Etc.		
	Note:	20% over & above may be given if depth is more than 1 m		
179	22.7	Refilling the cable trenches with selected available earth from trench excavation including watering, consolidation in layers of 15 cm. Thickness including depositing of the surplus earth with a lead of 200 Mtrs.	cmt	32
	22.8	Cutting of Road surface for cable trenches and disposing of the excavated earth, as directed including Barricading, Danger Lighting then Refilling the Cable Trenches.		
180	22.8.1	Macadam Road	cmt	182
181	22.8.2	Tar Road	cmt	300
182	22.8.3	Cement Concrete Road	cmt	603
183	22.8.4	Removing the Existing Stone Slabs pavement and stocking the materials for excavating the trench with a lead of 50 mtr Refixing the stone slab after refilling the trenches as in item 2	sq.mtr.	81
184	22.8.5	Laying and Jointing the pipes (100-150 mm), dia including lowering in Position: Fixing Collars etc., Joining with mud mortar complete		
185	22.8.6	RCC Pipe	mtr	28
186	22.8.7	Stone Ware Pipe	mtr	22
187	22.8.8	Laying the GI Pipe 80mm to 150 mm dia at Drainage Water Supply Crossing including fixing collars elbows, bends, Tees and other fitting with Cuts and Threads wherever necessary complete.	mtr	32
188	22.8.9	Removing and Refixing stone Masonary with necessary patch up and cementing drain works for Cluvert, Water Valve Crossing etc., including cost of materials.	cmt	420

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
189	22.8.10	Covering cable with Tiles	km.	1843
190	22.8.11	Spreading and forming with sand all round the cable to a depth of 75 mm and width of 500 mm. (sand charges are separate).	km	6475
191	22.8.12	Removing the kerb Stones and Refixing at the original place with necessary earthwork.	R. mtr	6
192	22.8.13	Fixing of Route Joint indicating Slabs.	Nos	48
	22.9	Transporting HT cable from Store to work spot including loading and unloading (including Crane and other equipment charges if any)		
193	22.9.1	3x95 to 150 Sq. mm	km (Cable)	8096
194	22.9.2	3x185 to 3x240 Sq.mm	km (Cable)	9716
195	22.9.3	1x300 to 1x1000 Sq. mm (S.C. Cable)	km (Cable)	9716
196	22.9.4	3x300 to 3x500 Sq.mm	km (Cable)	11334
197	22.9.5	-do- for LT Cables		
198	22.9.6	2.5 to 25 Sq.mm (S.C. Cable 4 core 3.5 core)	km (Cable)	500
199	22.9.7	35 to 95 Sq.mm (4 core/3.5 core)	km (Cable)	1000
200	22.9.8	120 to 240 Sq.mm (4 core/3.5 core)	km (Cable)	1100
	23	Laying of cable in Existing trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff.		
	23.1	HT Cable		
201	23.1.1	3x95 to 150 sq.mm	Cable km	25343
202	23.1.2	3x185 to 240 sq.mm	Cable km	26751
203	23.1.3	1x1000 sq. mm	Cable km	26751
204	23.1.4	3x300 to 3x500 sq.mm	Cable km	28158
	23.2	LT Cable		
205	23.2.1	2.5 to 25 sq.mm	Cable km	9043
206	23.2.2	35 to 95 sq.mm	Cable km	13234
207	23.2.3	120 to 240 sq.mm	Cable km	13514
	23.3	Cable Joint and wiring(for HT Cable only)		
	23.3.1	Epoxy straight through joint		
208	23.3.2	3x95 to 3x150 sq.mm	Nos.	700
209	23.3.3	3x185 to 3x240 sq.mm	Nos.	700
210	23.3.4	3x300 to 3x400 sq.mm	Nos.	700
	23.4	Heat shrinkable straight through joint		
211	23.4.1	3x95 to 3x150 sq.mm	Nos.	1200
212	23.4.2	3x185 to 3x240 sq.mm	Nos.	1200
213	23.4.3	3x300 to 3x400 sq.mm	Nos.	1200

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	24	Making and Fixing pot head for HT Cable only		
	24.1	Epoxy type		
214	24.1.1	3x95 to 3x150 sq.mm	Nos.	700
215	24.1.2	3x185 to 3x240 sq.mm	Nos.	700
216	24.1.3	3x300 to 3x400 sq.mm	Nos.	700
	24.1.4	Heat shrinkable type		
217	24.1.5	3x95 to 3x150 sq.mm	Nos.	1100
218	24.1.6	3x185 to 3x240 sq.mm	Nos.	1100
219	24.1.7	3x300 to 3x400 sq.mm	Nos.	1100
220	24.1.8	Releasing of HT cable after excavation refilling, consolidation Rewinding to the drum etc.,	km	25342
221	24.1.9	-do- for LT cable	km	8707
	25	Earth Excavation for R.M.U. Foundation Depositing of earth on Bank up to a lead of 50 mtr and with a lift up to 1.5 mtr		
222	25.1	Ordinary Soil	cmt	134
223	25.2	In hard soil	cmt	201
224	25.3	In ordinary Rock without Blasting	cmt	216
225	25.4	In ordinary Rock with Blasting	cmt	231
226	25.5	Hard Rock/Lattirite Rock/Lattirite Soft	cmt	628
		Note: Soil classifications has to be made by respective Executive Engineer		
227	25.6	Refilling the RMU foundation with the approved new earth with initial lead of 50 mtr including watering and tamping layers of 15 cm thick etc., complete.	cmt	42
228	25.7	Lifting of Excess Earth up to distance of 10 km	cmt	165
229	25.8	KSRB 4-1.3: Providing and Laying in position plain cement concrete of mix M7.5 (1:4:8) with OPC Cement @ 180 Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. SPECIFICATION No. KBS 4.1, 4.2	cmt	3799

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
230	25.9	KSRB 4-1.6: Providing and Laying in position plain cement concrete of mix M15 (1:2:4) with Cement @ 240 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed concrete laid in layers not exceeding 15 cms. thick well compacted, in foundation and plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. SPECIFICATION No. KBS 4.1, 4.2	cmt	4276
231	25.10	KSRB 5.2-3: Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8 edges of stones chisel dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour curing complete as per specifications. KBS 5.1.13	cmt	3116
232	25.11	KSRB 5.3-2: Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stones hammer dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour curing complete as per specifications. KSB 5.1.13	cmt	2773
233	25.12	KSRB 5-8.5: Providing quoin dressing to stone masonry and stone slabs, two line 5 Cms wide on each face as per specifications. (measurement including mortar joints) KSB 5.1.13	MTR	70
234	25.13	Plastering concrete surface in cement mortar 1:4, 20 mm thick inclusive of smooth rendering curing etc., complete.	sq.mt	160
235	25.14	Providing and constructing Brick Masonry with approved quality of Non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:8 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	cmt	4000
236	25.15	1. Transporting RMU unit from store to work spot including loading, unloading. (No separate crane charges)		
237	25.15.1	5 panels	Nos.	9367
238	25.15.2	1 panel	Nos.	1814

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
239	25.16	2. Fixing foundation frame of channels and angle iron welding fixing in concrete aligning the RMU on foundation bed, assembly of units, connecting Bus Bars from panel to panel initial filling of oil etc., complete.		
240	25.16.1	5 panels	Nos.	10042
241	25.16.2	1 panel	Nos.	2008
242	25.17	Lettering the RMU with enamel paint and also writing single line diagram of each panel, caution Board, Danger Board etc., including cost of Paint, Brush etc.,	per panel	422
243	25.18	Cleaning of Bitumen type pothead bus joint (All sizes)	Nos.	668
244	25.19	Breaking and cleaning of straight through joint (All sizes)	Nos.	668
245	25.20	Sealing of cable ends including supply of plumbing lead, plumbing materials.		
246	25.20.1	PILC	Nos.	646
247	25.20.2	XLPE	Nos.	120
	26	LABOUR for Aerial Bunched Conductor & Accessories		
		Item Description	Unit	
248	26.1	Stringing of 11kV grade aerial bunched 3 core cable of XLPE insulation & black LDPE sheathing having a standard aluminum conductor, standard around a weather resistant black XLPE insulated AAA messenger wire 11kV size 3x95 sq.mm+1x70 sq.mm with bare messenger	km	14461
249	26.2	Stringing of 11kV grade aerial bunched 3 core cable of XLPE insulation & black LDPE sheathing having a standard aluminum conductor, standard around a weather resistant black XLPE insulated AAA messenger wire 11kV size 3x120 sq.mm+1x95 sq.mm with bare messenger	km	14461
250	26.3	Stringing of 1.1kV grade aerial bunched 3 core cable of XLPE insulation standard aluminum conductor, standard around a weather resistant black XLPE insulated AAA messenger wire 1. (3x95) (for Phase conductor) + (1x70) (insulated messenger neutral) + (1x16) street light control.	km	10753
251	26.4	Stringing of 1.1kV grade aerial bunched 3 core cable of XLPE insulation standard aluminum conductor, standard around a weather resistant black XLPE insulated AAA messenger wire (size 3x50 sq.mm+1x16 sq.mm+1x50 sq. mm+1x35 sq. mm) 2. (3x95) (for Phase conductor) + (1x70) (insulated messenger neutral) + (1x25) for street light control.	km	10753

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
252	26.5	Stringing of 1.1kV grade aerial bunched 3 core cable of XLPE insulation standard aluminum conductor, standard around a weather resistant black XLPE insulated AAA messenger wire (size 3x70 sq. mm+1x16 sq.mm+ 1x95 sq. mm+1x50 sq. mm)3. (3x95) (for Phase conductor) + (1x70) (insulated messenger neutral) + (1x35) for street light control.	km	10753
253	26.6	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos.	102
254	26.7	Erection of Anchor Clamp - 25 to 95 Sq. mm bare messenger	Nos.	102
255	26.8	Erection of Suspension Clamp - 25 to 95 sqmm insulated messenger with bracket	Nos.	136
256	26.9	Erection of Anchor Clamp - 25 to 95 Sq. mm insulated messenger with bracket	Nos.	136
257	26.10	Fixing of Universal Hook	Nos.	102
258	26.11	Pole Clamp-145mmx95	Nos.	170
259	26.12	Installation of Insulation piercing connector for main to street light Main : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos.	48
260	26.13	Installation of Insulation piercing connector for main to service line Main : 16-95sqmm, Tap : 4-35sqmm(P2X95)	Nos.	68
261	26.14	Installation of Insulation piercing connector for main to service line Main : 25-95sqmm, Tap : 25-95sqmm(P3X95)	Nos.	68
262	26.15	Installation of Insulation piercing connector for main to service line Main : 50-150sqmm, Tap : 4-35sqmm(P4X150D)	Nos.	68
263	26.16	Installation of Pre-insulated straight thru' joints-MJPT for 16sqmm cable	Nos.	136
264	26.17	Installation of Pre-insulated straight thru' joints-MJPT for 25sqmm cable	Nos.	136
265	26.18	Installation of Pre-insulated straight thru' joints-MJPT for 50sqmm cable	Nos.	136
266	26.19	Installation of Pre-insulated straight thru' joints-MJPT for 70sqmm cable	Nos.	136

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
267	26.20	Installation of Pre-insulated straight thru' joints-MJPT for 120sqmm cable	Nos.	170
268	26.21	Installation of Pre-insulated lugs-CPTAU for 16	Nos.	136
269	26.22	Installation of Pre-insulated lugs-CPTAU for 25	Nos.	136
270	26.23	Installation of Pre-insulated lugs-CPTAU for 50	Nos.	136
271	26.24	Installation of Pre-insulated lugs-CPTAU for 70	Nos.	136
272	26.25	Installation of Pre-insulated lugs-CPTAU for 95sqmm	Nos.	142
273	26.26	Installation of Pre-insulated lugs-CPTAU for 120sqmm	Nos.	176
274	26.27	Distribution box suitable for 20 single phase connections	Nos.	340
275	26.28	Distribution box suitable for 6 3 phase connections	Nos.	476
276	26.29	T-connector KZ3 95	Nos.	115
278	26.30	End cap for 50/70 Sqmm	Nos.	4
279	26.31	11kV AB Cable T-joint installation for 3 Core	Nos.	2747
280	26.32	11kV AB Cable Straight thru' joint installation for 3 Core	Nos.	2198
281	26.33	11kV AB Cable Termination installation for 3 Core	Nos.	1859
282	26.34	Surge Arrester for ABC	Nos.	95
283	26.35	Ground connection for messenger wire	Nos.	23
284	26.36	Anchor sleeve for messenger wire	Nos.	4
	27	Laying of UG Cables by trenchless technology by adopting horizontal boring		
	27.1	Boring & Drawing of cable including preparation at site		
	27.1.1	Without HDPE Pipe		
285	27.1.1.1	i) Normal soil 5" bore size	Rmtr.	500
286	27.1.1.2	ii) Rock soil 5" bore size	Rmtr.	870
287	27.1.1.3	iii) Normal soil 6" bore size	Rmtr.	500
288	27.1.1.4	iv) Rock soil 6" bore size	Rmtr.	870

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
289	27.1.1.5	v) Normal soil 8" bore size	Rmtr.	N.A
290	27.1.1.6	vi) Rock soil 8" bore size	Rmtr.	N.A
	27.1.2	With HDPE Pipe		
291	27.1.2.1	i) Normal soil 5" bore size	Rmtr.	600
292	27.1.2.2	ii) Rock soil 5" bore size	Rmtr.	970
293	27.1.2.3	iii) Normal soil 6" bore size	Rmtr.	730
294	27.1.2.4	iv) Rock soil 6" bore size	Rmtr.	1140
295	27.1.2.5	v) Normal soil 8" bore size	Rmtr.	N.A
296	27.1.2.6	vi) Rock soil 8" bore size	Rmtr.	N.A
297	27.1.2.7	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts, cutting, bending wherever necessary, wastage and lapping etc., complete as per the direction of the engineer incharge for work including two coats of approved quality paint over one coat of primer paint.	Sqmt	676
298	27.1.2.8	LTFP box Painting (including scrubbing of old paint, supplying and applying primer and two coats of aluminium /enamel paint including minor repair to box)	LS	1035
299	27.1.2.9	Spun Pole Painting (supplying and applying two coats of enamel paints to 11Mtrs spun pole) and painting all the metal parts of the structure with two coats of aluminium paint over primer	Pole	4830
300	27.1.2.10	Spun Pole Painting (supplying & applying two coats of enamel paints to 11Mtrs spun pole) and painting	Pole	2070
301	27.1.2.11	Repairing the broken damaged door of RMU with necessary hinges, welding etc., with necessary paint touch up including supply of paint for touch up.	per door	457
302	27.1.2.12	Repairing the broken damaged door of LT feeder box with necessary hinges, welding etc.with necessary paint touch up including supply of paint for touch up.	per box	305
303	27.1.2.13	Repairing the broken damaged door of LT distribution box fixed to DTC with necessary hinges, welding etc. with necessary paint touch up including supply of paint for touch up.	per box	229

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	28	Erection of Compact Pre-fabricated Packaged Sub-station 11kV / 433 V		
304	28.1	Installing & fixing the compact pre-fabricated packaged sub-station 500/750/990 kVA transformer on the existing concrete plinth.(This does not include the cost of plinth, cable duct,laying & termination of cable etc. provision for the same shall be made	set	8467
305	28.2	Labour Charges towards Station Works (As per Prevailing KPTCL SR with effect from 01.09.06)		
	29	11KV SWITCHGEAR		
306	29.1	Erection, alignment and fixing to the foundation, indoor/outdoor 11KV switchgear panel/unit including movement from the point of unloading to thr point of ertcion.	Per Panel	
307	29.1.1	11KV Indoor /outdoor switchgear		1471
308	29.1.2	11KV Kiosk		1224
		<u>Wiring & assisting in testing & Commissioning</u>		
309	29.1.2.1	11KV indoor/outdoor switchgear		488
310	29.1.2.2	11KV Kiosk		488
	30	a) Wiring b)Testing & Commissioning		
311	30.1	Identification of wires, Ferruling Crimping & Termination of wires fir annunciation, etc., Testing of Relays, CTs, PTs, & Breaker for operation.		
312	30.2	For indoor /outdoor panel comprising of 2I +8F+1BC+1AP3	Per Set	55802
313	30.3	For single 11KV panel indoor type	Each	11160
314	30.4	For additional 11KV panel (indoor type)	Each	5580
315	30.5	For single 11KV panel outdoor type/Kiosk	Each	13098
316	30.6	For each additional 11KV panel out door type/kiosk	Each	8529
		<u>Speical labour charges for Ganga Kalyna and Water Works</u>		
		NOte:- (1). These labour charges are applicable for 1 to 2 pole and 3 to 5 poles in respect of Ganga Kalyana and Water Works		
		(2) These rates are applicable only when 1 to 2 pole and 3 to 5 poles are involved and no other associated works .		
		(3) Estimates shall not be split to show the pole works and t ransformers works etc., separately to claim these special labour charges		

Sl. No.	Item.No.	Particulars	Unit	COMMON SR RATES 2012-13 (Labour Charges)
		(4) Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges.		
		Labour Charges for one to two pole and three to five pole works in respect of all types of works wherein other works such as DTC erection etc., and other works are not involved.		
317		The Consolidated labour chrges for 1 to 2 poles works for all types of works. This amounts includes all charges including Transportation charges, loading and un-loading charges, etc.,		6250
318		The Consolidated labour chrges for 3 to 5 poles works for all types of works. This amounts includes all charges including Transportation charges, loading and un-loading charges, etc.,		9875
319	NOTE:			
	1	The loading and unloading charges shall be included at the following rates in all estimates for the works which are proposed to be taken up on labour contract.		
	2	For Poles - As per the rates provided for Loading and unloading of poles in the S.R.		
	3	For all other materials excluding transformers and conductors - 10% of the rates provisioned for Loading and unloading of poles in the estimate.		
	4	For Transformers and Conductor - As per the rates provided in the S.R.		
	5	The Labour charges for erection of Poles, Guy Sets, DP Structures etc., involving excavation of soil provided in the cost sheet for general works is for ordinary soil only. Wherever other type of soil is encountered, the difference in rates for excavation in such soil provided in the Schedule of labour shall be worked out and adopted.		

Schedule of Rates for Standard Stock **Materials Common SR 2012-13 (11KV System)**

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	1	<u>Line Supports (Poles)</u>			
1	1.1	RCC Pole-9.0M Long,145 kg WL	200105	Nos.	5941
2	1.2	RCC Pole-9.0M Long,150 kg WL sq. section	200106	Nos.	7210
3	1.3	RCC Pole-8.0M Long,115 kg WL	200103	Nos.	4438
4	1.4	PCC Pole-8.0M Long, 140 kg WL	200003	Nos.	2613
5	1.5	PSC Pole-8.0M Long,200 kg WL	200004	Nos.	3077
6	1.6	PSC Pole-9.0M Long,200 kg WL	200006	Nos.	3607
7	1.7	Pre-Stressed Tubular Spun Pole 11M Long	200120	Nos.	14989
8	1.8	RCC Pole-9.5M Long, 350 kg WL for 33kV Lines	200107	Nos.	7675
9	1.9	11Mtrs. Long PSC pole of working Load 365kg for intermediate poles only		Nos.	7924
10	1.10	Strut pole made of released MS Rail pole or Tubular pole along with clamp fish plate, bolts & nuts	200514	Nos.	2310
11	1.11	11 Mtrs. Long pole made of I Beam (MS) section size 200x100mm 25.9kg/mtr.	200621	Nos.	17510
12	1.12	11 Mtrs. Long pole made of I Beam (MS) section size 175x85mm 19.5kg/mtr.	200610	Nos.	11980
	2	<u>Cross Arms (MS)</u>			
13	2.1	11kV Horizontal X arms	279020	Nos.	300
14	2.2	11kV Special 3pin X arm	279013	Nos.	710
15	2.3	L.T. 4Pin X arms	279014	Nos.	233
16	2.4	L.T. 2Pin X arms	279012	Nos.	107
17	2.5	2 pin cross arm with pole clamp, bolt & nuts & washers for RCC Pole		Nos.	187
18	2.6	2 pin cross arm with pole clamp, bolt & nuts & washers for PSC Pole		Nos.	180
19	2.7	4 pin cross arm with pole clamp, bolt & nuts & washers for RCC Pole		Nos.	313
20	2.8	4 pin cross arm with pole clamp, bolt & nuts & washers for PSC Pole		Nos.	306

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
21	2.9	11 kV Horizontal cross arm with single top support, clamp , Bolt & Nuts with washers for RCC Poles		Nos.	475
22	2.1.1	11 kV Horizontal cross arm with single top support, clamp , Bolt & Nuts with washers for PSC Poles		Nos.	468
23	2.1.2	Special 3 pin cross arm, clamp and Bolt & Nuts for RCC Poles		Nos.	774
24	2.1.3	L.T.S.T Support 50X6mm flat	279091	Nos.	53
25	2.1.4	H.T.S.T Support 50X6mm flat	279092	Nos.	73
26	2.1.5	Brace for LT 4pin X arm (600mm long)	279082	Nos.	230
27	2.1.6	Brace for 11 kV special 3pin X arm (900mm long)	279083	Nos.	320
28	2.1.7	L.T.Cross arms for vertical configuration	279017	Nos.	770
29	2.1.8	EG Stirrups (MS) with GI wire lacing	279130	Nos.	206
30	2.1.9	Spiral Earth Electrode	281683	Nos.	228
	3	<u>SMC Line Materials</u>			
31	3.1	11KV Cross arm with HT top support(glass reinforced hot pressed SMC compound			750
	4	<u>Anticlimbing Device</u>			
32	4.1	Spike type G.I.About 3.0Kg in weight	278910	Nos.	145
33	4.2	Barbed wire (10 mts.)	278910	each	70
	5	<u>Clamps (MS)</u>			
34	5.1	RCC Pole clamp	279523	Nos.	64
35	5.2	PCC Pole clamp	279503	Nos.	53
36	5.3	PSC Pole clamp	279510	Nos.	57
37	5.4	PCC Pole clamp type A for LT X arm	279502	Nos.	56

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
38	5.5	PCC Pole clamp type A for X arm upto 1M from pole top	279522	Nos.	56
39	5.6	Clamps for fixing MV Lamp control box, fuse box/St light fixture on rail pole	279550	Nos.	65
40	5.7	Guy clamp	279650	Nos.	63
41	5.8	Turn buckle (GI)	279146	Nos.	176
42	5.9	Anchor Rod using 12mm rounds/Guy Rod	279140	Nos.	204
43	5.10	Rcc pole type C clamp for GOS operating handle	279524	Nos.	65
44	5.11	MS Fish Plate	279800	Nos.	57
45	5.12	Strain Clamps, 3 Bolt type for 70/90 kN Disc Insulator	285076	Nos.	518
	6	<u>Insulators</u>		Nos.	
46	6.1	11kV ceramic Pin Insulator (Shell only)	283005	Nos.	40
47	6.2	11kV G.I Pin for 11kV ceramic shell Insulators	283055	Nos.	55
48	6.3	1.1kV ceramic Pin Insulator (Shell only)	283003	Nos.	12
49	6.4	1.1kV G.I Pin FOR 11Kv Cermaic shell Insulator	283053	Nos.	25
50	6.5	11kV, 5KN Composite Pin Insulator		Nos.	173
51	6.6	NO.8 Strain Insulator	283158	Nos.	12
52	6.7	NO.15 Strain Insulator	283166	Nos.	30
53	6.8	DISC Insulators 45kN	283040	Nos.	400
54	6.9	DISC Insulators 70kN, Ball & Socket type	283017	Nos.	450
55	6.10	DISC Insulators 90kN, Ball & Socket type	283018	Nos.	450
56	6.11	DISC Insulators 120kN, Ball & Socket type	283021	Nos.	450

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
57	6.12	11kV Solid Core Insulator	283315	Nos.	140
58	6.13	11kV Post Insulator	283101	Nos.	330
59	6.14	Silcon rubber composite insulator/11kV 45 kN Polymeric insulator	283320	Nos.	177
60	6.15	11kV, 70kN composite Polymeric insulator		Nos.	287
	7	<u>Accessories for composite insulator</u>			
61	7.1	Cross arm Strap (MS)	279030	Nos.	78
62	7.2	Strain Clamp up to Rabbit ACSR	285058	Nos.	180
63	7.3	Strain Clamp for Coyote ACSR	285066	Nos.	390
	8	<u>Conductor</u>			
64	8.1	Weasel ACSR	284105	km	23000
65	8.2	Rabbit ACSR	284108	km	38500
66	8.3	Coyote ACSR	284116	km	96000
67	8.4	Lynx ACSR	284120	km	147000
	9	<u>Guy Wire & G.I.Wire</u>			
68	9.1	7/10 SWG Guy Wire	281110	MT	64000
69	9.2	8 SWG G.I.Wire	281008	MT	62300
70	9.3	10 SWG G.I.Wire	281010	MT	65600
71	9.4	G.I Barbed Wire 12 SWG	281205	MT	77200
	10	<u>P.G.Clamps</u>			
72	10.1	P G clamps for lynx ACSR		Nos.	288
73	10.2	Coyote to Coyote	285515	Nos.	262
74	10.3	Rabbit to Rabbit	285508	Nos.	84

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
75	10.4	Weasel to Rabbit	285549	Nos.	73
76	10.5	Weasel to Weasel	285509	Nos.	57
77	10.6	Squirrel to Weasel	285548	Nos.	53
	11	<u>P.G. Clamps Rabbit to Insulated wire</u>			
78	11.1	95 Sq.mm	285555	Nos.	116
79	11.2	120Sq.mm	285557	Nos.	226
80	11.3	150Sq.mm	285559	Nos.	266
81	11.4	185Sq.mm	285562	Nos.	292
82	11.5	240Sq.mm	285565	Nos.	339
83	11.6	T-Clamps for Rabbit conductor with hot dipped galvanized bolts, Nuts and Washers	285600	Set	262
84	11.7	T-Clamps for Coyote conductor with hot dipped galvanized bolts, Nuts and Washers		Set	347
85	11.8	T-Clamps for Lynx to Lynx with hot dipped galvanized bolts, Nuts and Washers			363
86	11.9	Single Tension Clamp Suitable for Rabbit	285068	Nos.	538
87	11.10	Single Tension Clamp Suitable for Coyote	285076	Nos.	758
88	11.11	Pad clamps for suitable for Rabbit ACSR		Nos.	416
89	11.12	Pad clamps for lynx ACSR		Nos.	575
90	11.13	Pad clamps for Coyote ACSR		Nos.	516
91	11.14	C- Type wedge connector + 2 hole pad for Rabbit ACSR		Nos.	391
92	11.15	C- Type wedge connector + 2 hole padle for Coyote ACSR		Nos.	1624
93	11.16	C- Type wedge connector + 4hole padle for Coyote ACSR		Nos.	1865
94	11.17	C- Type wedge connector +2 hole padle for Lynx ACSR		Nos.	2467

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
95	11.18	C- Type wedge connector +4 hole padle for Lynx ACSR		Nos.	2707
	12	<u>C- Type wedge connector</u>			
96	12.1	Rabbit to Rabbit ACSR		Nos.	135
97	12.2	Rabbit to Coyote		Nos.	702
98	12.3	Rabbit to Lynx		Nos.	702
99	12.4	Coyote To Coyote		Nos.	702
100	12.5	Rabbit to 240 Sq.mm lead wire		Nos.	702
101	12.6	Coyote to 240 Sq.mm lead wire		Nos.	702
102	12.7	Coyote to Lynx		Nos.	1238
103	12.8	Lynx to Lynx		Nos.	1238
104	12.9	C wedge connector for connecting main wire of size 2.5/4.0/6.0/10.00 Sq.mm from OH Squirrel / Weasel line to AFB/ Cutouts		Nos.	74
105	12.10	C wedge connector for connecting main wire of size 16/25 Sq.mm from OH Rabbit line to AFB/ Cutouts		Nos.	94
	13	<u>Distribution Transformers-3Phase, 11kV/433V - Stacked core</u>			
106	13.1	Distribution Transformer-15kVA, Copper Winding	321301	Nos.	50000
107	13.2	Distribution Transformer-25kVA, Almunium Wdg. (Conventional)	321304	Nos.	50330
108	13.3	Distribution Transformer-25kVA, Almunium Wdg.(BEE 3-star rated)		Nos.	72640
109	13.4	Distribution Transformer-63kVA, Almunium Wdg.	321306	Nos.	78100
110	13.5	Distribution Transformer-63kVA, Almunium Wdg.(BEE 3 STAR RATED)		Nos.	114660
111	13.6	Distribution Transformer-100kVA, Almunium Wdg.	321310	Nos.	97400
112	13.7	Distribution Transformers 100kVA, Aluminium Wdg. (BEE 3 Star Rated)	321435	Nos.	178480
113	13.8	Distribution Transformer-250kVA, Almunium Wdg.	321325	Nos.	233000
114	13.9	Distribution Transformer-500kVA, Almunium Wdg.	321350	Nos.	470800

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
115	13.10	Special design transformer 354kVA for Niranthara Jyothi Works(11KV AUTO Transformer)			157555
	14	<u>Distribution Transformer- Amorphous Core 11kV/433V</u>			
116	14.1	Distribution Transformer-25kVA	321376	Nos.	102414
117	14.2	Distribution Transformer-63kVA	321377	Nos.	157121
118	14.3	Distribution Transformer-100kVA	321380	Nos.	157121
	15	<u>Distribution Transformer Self Protected 11kV/433V</u>			
119	15.1	100 kVA	321365	Nos.	127430
120	15.2	250 kVA	321370	Nos.	253882
	16	<u>DTs-Single phase, 11kV/250V</u>			
121	16.1	Distribution Transformer-15 kVA, 11kV,with MCCB Copper Wound.	321302	Nos.	66200
122	16.2	Distribution Transformer 15 kVA, 11kV/0.25kV Amorphouse core copper winding with MCCB	321303	Nos.	76600
123	16.3	Distribution Transformer-10 kVA, Copper winding, 11kV/250V	321300	Nos.	46860
	17	<u>11 KV Dry Type Transformers</u>			
124	17.1	100KVA		Nos.	453000
125	17.2	250KVA		Nos.	841000
126	17.3	500KVA		Nos.	1423400
	18	<u>Transformer Oil</u>			
127	18.1	EHV Grade Transformer oil -new	601400	k.Ltr	74000
128	18.2	Reclaimed oil	601410	k.Ltr	40700
129	18.3	Contaminated oil	601420	k.Ltr	26640

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	19	<u>L.T.Protection</u>			
130	19.1	L.T.Protection kit	301107	Nos.	2360
	20	<u>L.T.Distribution Box</u>			
131	20.1	L.T.Distribution Box for 100 / 250 kVA DTC with MCCB's(Sheet Metal)	301230	Nos.	15625
132	20.2	L.T.Distribution Box for 100 / 250 kVA DTC with MCCB's(SMC)		Nos.	23742
	21	<u>L.T.Wiring kit for LT protection kit</u>			
133	21.1	For 25 kVA DTC single circuit	301151	Set	1478
134	21.2	For 63 kVA DTC single circuit		Set	3841
135	21.3	For 63 kVA DTC double circuit	301152	Set	7681
	22	<u>L.T.Wiring kit through Distribution Box</u>			
136	22.1	For 100 kVA DTC Single circuit			6041
137	22.2	For 100 kVA DTC double circuit	301153	Set	12082
138	22.3	For 250 kVA DTC Single circuit	301154	Set	11279
139	22.4	For 250KVA DTC Double circuit		Set	22558
140	22.5	LT Wiring kit for 63kVA Transformers (MESCOM Specification)		Set	2839
141	22.6	LT Wiring kit for 25kVA Transformers (MESCOM Specification)		Set	1139
	23	<u>Lightning Arresters</u>			
142	23.1	L.A. 9kV, 5kA, Metal Oxide	303200	Nos.	653
143	23.2	L.A. 9kV, 5kA, Polymeric type	303205	Nos.	1164
	24	<u>H.G.Fuse Unit</u>			
144	24.1	11kV Class, H.G. FUSE UNIT WITH Solid core Insulators	302122	Set/3 nos.	832

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	25	<u>Double Pole T.C.Sets</u>			
145	25.1	25/63kVA T.C.Sets	279110	Set	9040
146	25.2	25/63kVA T.C.Sets (for star rated Transformer) with H Frame.		set	13035
147	25.3	100/300 kVA T.C.Sets	279120	Set	15565
148	25.4	Single Pole Mounted Transformer kit for 250 kVA on 11 mtr spun poles	279125	Set	25050
		<u>SPMT Materials</u>		Nos.	
149	25.5	Single Pole Mounted Transformer kit for 25/63 kVA on 9 mtr RCC Poles (square section)	279115	Set	5000
150	25.6	Single Pole Mounted Transformer kit for 100 kVA on 9 mtr RCC Poles	279125	Set	7505
	26	<u>G.O.S</u>			
151	26.1	11kV G.O.S 200A Single break	304212	Set	7580
152	26.2	11kV G.O.S 200A Single break, vertically operated	304213	Set	10157
153	26.3	11kV G.O.S 400A Double break	304224	Set	15732
154	26.4	11kV G.O.S.Mounting H-Frame set for 200A Single break	279149	Set	3600
155	26.5	Male and Female contacts with B&N for 11kV 200A GOS(3 Male & 3 Female contacts each)		Set	2518
156	26.6	Insulated GOS Rods			342
	27	<u>DOLO cutouts</u>			
157	27.1	11 kV DOLO Cutouts Conventional to erstwhile KEB Specification.	302011	Set /3nos.	4446
158	27.2	11 kV DOLO Cutouts REC specification.		Set /3nos.	3176
159	27.3	11 kV 400A Special Roaster GOS	304204	Set	12050

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	28	<u>D.P.Sets (2 Pole Strucrure kit)</u>			
160	28.1	D.P.Sets	279100	Set	4755
	29	<u>3 Pole Structure Kit</u>			
161	29.1	3 Pole Structure material	279015	Set	11420
		<u>C-Type wedge connectors (Fired)</u>			
162	29.2	Rabbit to Rabbit ACSR conductor		set	371
163	29.3	Coyote to Coyote ACSR conductor		set	919
164	29.4	Rabbit to Coyote ACSR conductor		set	926
	30	<u>H-Clamps</u>			
165	31.1	Rabbit to Rabbit	285585	Nos.	76
166	31.2	Coyote to Coyote	285587	Nos.	378
167	31.3	Rabbit to Coyote	285586	Nos.	357
167	31.4	Two hole paddle(Rabbit ACSR)	285590	Nos.	295
169	31.5	Microweg Connector	285594	Nos.	96
	31	<u>L.T.Feeder piller box</u>			
170	32.1	LT Feeder Piller box 8 way with cutouts	300308	Nos.	37880
171	32.2	LT Feeder Piller box 12 way with cutouts	300312	Nos.	44025
	33	<u>L.T.Spacers</u>			
172	33.1	L.T.Line Spacers	284502	Nos.	41
173	33.2	LT Spacer for TC Wiring	284503	Nos.	24
	34	<u>Armoured L.T.UG Cable 1.1kV Class</u>			
174	34.1	6 Sq.mm, 2 Core	287054	km	39094
175	34.2	10 Sq.mm, 2Core	287055	km	49244
176	34.3	10 Sq.mm, 4Core	287205	km	64585
177	34.4	16 Sq.mm, 2Core	287056	km	50994

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
178	34.5	16 Sq.mm, 4 Core	287206	km	81465
179	34.6	25 Sq.mm, 2Core	287057	km	74075
180	34.7	25 Sq.mm, 4 Core	287207	km	97300
181	34.8	50 Sq.mm, 4 core	287209	km	130262
182	34.9	70 Sq.mm, 3.5 core	287210	km	218430
183	34.10	95 Sq.mm, 3.5 core	287211	km	309456
184	34.11	120Sq.mm , 3.5 core	287212	km	343060
185	34.12	150 Sq.mm, 3.5 core	287213	km	387670
186	34.13	185Sq.mm, 3.5 core	287214	km	494188
187	34.14	240 Sq.mm, 3.5 core	287216	km	683665
188	34.15	400 Sq. mm 3.5 Core	287218	km	941077
	35	<u>Compression type Aluminium Tubular in line connector for Aluminium conductor</u>			
189	35.1	10 sq. mm	288605	Nos.	2
190	35.2	16 sq. mm	288606	Nos.	2
191	35.3	25 sq. mm	288607	Nos.	4
192	35.4	35 sq. mm	288608	Nos.	4
193	35.5	50 sq. mm	288609	Nos.	6
194	35.6	70 sq. mm	288610	Nos.	10
195	35.7	95 sq. mm	288611	Nos.	11

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
196	35.8	120 sq. mm	288612	Nos.	16
197	35.9	150 sq. mm	288613	Nos.	23
198	35.10	185 sq. mm	288614	Nos.	28
199	35.11	240 sq. mm	288616	Nos.	46
200	35.12	400 sq. mm	288617	Nos.	95
	36	<u>Epoxy Straight through jointing kits suitable for 1.1 kV class LT UG Cables Size in sq. mm</u>			
201	36.1	10 Sq.mm, 2 Core	288170	Set	553
202	36.2	10 Sq.mm, 4 Core	288174	Set	553
203	36.3	16 Sq.mm, 2 Core	288171	Set	553
204	36.4	16 Sq.mm, 4 Core	288175	Set	553
205	36.5	25 Sq.mm, 2 Core	288172	Set	553
206	36.6	25 Sq.mm, 4 Core	288176	Set	595
207	36.7	50 Sq.mm, 4 core	288178	Set	678
208	36.8	70 Sq.mm, 3.5/4 core	288179	Set	836
209	36.9	95 Sq.mm, 3.5/4 core	288180	Set	836
210	36.10	120 Sq mm 3.5/4 core	288181	Set	1319
211	36.11	185 Sq mm 3.5/4 core	288183	Set	1362
212	36.12	240 Sq.mm,3.5/4 core	288185	Set	1737
213	36.13	400 Sq. mm 3.5/4 Core	288187	Set	2573

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	37	<u>Epoxy Terminating kit (pothead) suitable for 1.1 kV class LT UG Cables</u>			
214	37.1	Up to 4C x 50 sq.mm	288150	Set	307
215	37.2	3.5 x 70/95/120 sq. mm	288159	Set	362
216	37.3	3.5 x 150/185 sq. mm	288163	Set	455
217	37.4	3.5 x 225/240/300 sq. mm	288165	Set	557
218	37.5	3.5 x 400/500 sq. mm	288166	Set	678
	38	<u>Cast Iron Terminating kit (pothead) suitable for 1.1 kV class LT UG Cables</u>			
219	38.1	2.5 to 25 sq.mm	288168	Set	186
220	38.2	35 to 95 sq.mm	288169	Set	289
	39	<u>11kV 3 Core XLPE UG Cable (Flat armoured)</u>			
221	39.1	11kV 3 Core XLPE UG Cable-95Sq.mm	287340	km	494000
222	39.2	11kV 3 Core XLPE UG Cable-120 Sq.mm	287342	km	775500
223	39.3	11kV 3 Core XLPE UG Cable-240Sq.mm	287345	km	945000
224	39.4	11kV 3 Core XLPE UG Cable-400Sq.mm	287350	km	1501000
	40	<u>11kV 3 Core XLPE UG Cable (ROUND Armoured)</u>			
225	40.1	11kV 3 Core XLPE UG Cable-95Sq.mm		km	617500
226	40.2	11kV 3 Core XLPE UG Cable-120 Sq.mm		km	969375
227	40.3	11kV 3 Core XLPE UG Cable-240Sq.mm		km	1181250
228	40.4	11kV 3 Core XLPE UG Cable-400Sq.mm		km	1876250
229	40.5	11 kV Cables faulty locating equipments		Nos.	4222800

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	41	<u>LT XLPE UG Cable</u>			
230	41.1	3.5x25 Sq.mm		km	96140
231	42.2	3.5x95 Sq.mm		km	238057
	42	<u>11kV Auto reclosures and Sectionalizers with remote communication facility</u>			
232	42.1	11KV,630 A 12.5KA Auto reclosures with control pannel including necessary hardware structure protection system etc., as per specification (MESCOM)		Set	918356
233	42.2	11kV, 12.5KA Sectionalizer with control box having control logic with necessary hardware etc., as per		Set	677499
234	42.3	11kV, 230V, 2 Phase, 300VA control transformer for providing auxillary power		Set	12945
235	42.4	11kV/ $\sqrt{3}$ /110V/ $\sqrt{3}$, 1 Phase metering PT class - 1, 100VA per Phase for measurement of voltage		Set	35303
236	42.5	GSM modem with connecting cable for remote communicating capabilities		Set	14121
237	42.6	Fabrication & supply of structrual steel including painting etc.,		Set	7825
238	42.7	9.6 kV, 200A long duration porcelien housed Surge arrestors		each	1569
	43	<u>Conventional RMUs (VCB Type) DAS Compatable.</u>			
239	43.1	Conventional RMU (2OD + 1VL) with DAS Specification		Set	1255150
240	43.2	Conventional RMU (2OD + 2VL) with DAS Specification		Set	1642550
241	43.3	Conventional RMU (2OD + 3VL) with DAS Specification		Set	2029960
242	43.4	Conventional RMU (2OD + 4VL) with DAS Specification		Set	2417360
243	43.5	Single I/C. Panel Conv. RMU with DAS Specification		Set	340660
244	43.6	RMU, One In comer + 3 Breakers +one out going (2OD + 3VL), 350 MVA, 800A with Cu Bus	302310	Set	1544045
245	43.7	RMU, One In comer + 3 Breakers +one out going (2OD + 3VL), 350 MVA, 800A with Al Bus	302311	Set	1482283.2
246	43.8	Conventional RMUs (2OD + 2 VL)		Sets	1231830

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	44	<u>Conventional RMUs OD</u>		Nos.	294877
247	44.1	One Breaker (VL) panel with Cu Busbar	302315	Nos.	312215
248	44.2	One Breaker (VL) panel with Al Busbar	302316	Nos.	299727
249	44.3	RMU, One In comer + One Breakers +one out going(2OD + 1 VL), 350 MVA, 800A with Cu Bus	302320	Set	919615
250	44.4	RMU, One In comer + One Breakers +one out going(2OD + 1 VL), 350 MVA, 800A with Al Bus	302321	Set	882830
251	44.5	RMU (2OD + 1 VL), 250 MVA, 400A, VCB Type with Cu Busbar	302325	Set	849761
252	44.6	RMU (2OD + 1 VL), 250 MVA, 400A, VCB Type with Cu Busbar	302326	Set	819658
253	44.7	Retrofitting of MEI make oil switch type OD with VCB		Nos.	160497
	45	<u>Conventional RMU Spares(VCB Type)</u>			
254	45.1	Bus support insulator with stem	506505	Nos.	1095
255	45.2	CTs trom bone type, 11kV Class, 200-100/5A, VA-15, Class 5P-10	506520	Nos.	18755
256	45.3	CTs resin cast, 11kV Class,400-200/5A, UA15, Class 5P-10	506525	Nos.	18755
257	45.4	Spout grid Insulator assembly (Back)	506530	Nos.	4247
258	45.5	Spout grid Insulator assembly (Front)	506535	Nos.	4247
259	45.6	PT Insulator (Spout) 3 Nos	506540	Nos.	448
260	45.7	Shunt trip coil	506545	Nos.	757
261	45.8	Closing coil	506550	Nos.	757
262	45.9	Plug assembly for grid 800A, 6 Nos	506555	Nos.	1579

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
263	45.10	Para plast compound	506560	Nos.	750
264	45.11	PT Fuse(NT) 11kV/V3 Amps with out stem, VTF Type-11	506565	Nos.	2837
265	45.12	Insulated housing	506510	Nos.	27386
266	45.13	Switch insulators left/ right/ centre	506515	Nos.	5963
267	45.14	Vacuum interruptor 20 kA	506570	Nos.	23958
268	45.15	Flower contact	506580	Nos.	1065
	46	<u>For Schneider make RMU</u>			
269	46.1	Tripping Coil		Nos.	9345
270	46.2	VIP Relay		Nos.	51398
271	46.3	Live Cable indicator		Nos.	3894
272	46.4	11KV fault passage indicator for overhead line		Nos.	14810
	47	<u>Compact RMUs, (VCB / SF6 Type) with AI Busbar</u>			
273	47.1	RMU (3 way), One In comer + One Breaker +one out going (2OD + 1 VL), 350 MVA, 650A	302340	Unit	542587
274	47.2	RMU(4way), One In comer + Two Breakers +one out going (2OD + 2 VL), 350 MVA, 650A	302345	Unit	918076
275	47.3	RMU(5way), One In comer + Three Breakers +one out going (2OD + 3 VL), 350 MVA, 650A	302350	Unit	1269282
276	47.4	RMU (6Way), One In comer + Four Breakers +one out going (2OD + 4 VL), 350 MVA, 650A	302355	Unit	1559825
277	47.5	1OD for RMU		Unit	152109
278	47.6	1VL for 350MVA,650A RMU		Unit	306898
	48	<u>Load Break Switches</u>			
279	48.1	Load Break Switches only without pannel		Unit	38549

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
280	48.2	Load Break Switches with pannel		Unit	84017
281	48.3	3Way Load Break Switch		Unit	271820
	49	<u>Aerial Bunched Cable(ABC)</u>			
		<u>11kV HT Aerial Bunched Cable</u>			
282	49.1	11kV 3x95 +1x70 (Bare / Insulated messenger wire)		km	639788
283	49.2	11kV 3x120+1x95 (Bare / Insulated messenger wire)		km	756250
	50	<u>LT Aerial Bunched Cable</u>			
284	50.1	3x95+1x70+1x16 street light (Insulated messenger cum Neutral)		km	292270
285	50.2	3x95+1x70+1x25 street light (Insulated messenger cum Neutral)		km	299735
286	50.3	3x95+1x70+1x35 street light (Insulated messenger cum Neutral)		km	300992
	51	<u>Accessories for ABC Cables</u>			
287	51.1	11kV AB Cable Straight thru' joint kit suitable for 95-120 sqmm	284853	set	2962.58
288	51.2	11kV ABC-T Jointing kit 95-120 sqmm	284863	set	3757
289	51.3	11kV ABC Termination kit 95-120 sqmm	284873	set	1879
290	51.4	Surge Arrester	303100	Nos.	692
291	51.5	Ground connection for messenger wire	284880	Nos.	117
292	51.6	Anchor sleeve for messenger wire	284885	Nos.	22
293	51.7	Single phase Distribution box for 20 connections	284820	Nos.	1806
294	51.8	Three phase Distribution box for 6 connections	284821	Nos.	1987
295	51.9	Single phase Distribution box for 10 connections		Nos.	2065
296	51.10	Three phase Distribution box for 5 connections		Nos.	2065
297	51.11	Piercing connector suitable for 16 Sq.mm-95 Sq.mm AB Cable- Service connections	284822	Nos.	217

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
298	51.12	Piercing connector suitable for 16 Sq.mm- 95 Sq.mm AB Cable- Street light connections	284223	Nos.	152
299	51.13	Piercing connector suitable for 25 Sq.mm- 95 Sq.mm AB Cable- main to main connections	284855	Nos.	253
300	51.14	Piercing connector suitable for 50 Sq.mm- 150 Sq.mm AB Cable- main to main connections	284865	Nos.	253
301	51.15	Universal hook & Bolts & nuts	284284	Nos.	289
302	51.16	Dead end clamp / Anchor clamp assembly 25 to 95 sq.mm bare messenger	284825	Nos.	145
303	51.17	Suspension clamp assembly 25 to 95 sq.mm bare messenger	284826	Nos.	289
304	51.18	Pre-Insulated lugs-CPTAU for 120 Sq.mm		Nos.	423
305	51.19	Pre-Insulated lugs-CPTAU for 95 Sq.mm		Nos.	372
306	51.20	Pre-Insulated lugs-CPTAU for 70 Sq.mm	284827	Nos.	325
307	51.21	Pre-Insulated lugs-CPTAU for 50 Sq.mm	284828	Nos.	289
308	51.22	Pre-Insulated lugs-CPTAU for 25 Sq.mm	284834	Nos.	271
309	51.23	Pre-Insulated lugs-CPTAU for 16 Sq.mm	284835	Nos.	134
310	51.24	Tee-connectors- KZ3 95	284829	Nos.	372
311	51.25	Straight joints suitable for 95 Sq.mm, LT ABC -MJPT type	284832	Nos.	310
312	51.26	Straight joints suitable for 70 Sq.mm, LT ABC -MJPT type	284830	Nos.	289
313	51.27	Straight joints suitable for 50 Sq.mm, LT ABC-MJPT type	284831	Nos.	271
314	51.28	Straight joints suitable for 16 Sq.mm,LT,ABC-MJPT type	284832	Nos.	181
315	51.29	End cap for 50/70 Sq.mm	284833	Nos.	19

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	52	<u>11kV Jointing and Cable termination kits</u>			
	52.1	<u>Heat Shrinkable type transition jointing kit for XLPE cable</u>			
316	52.1.1	3X95 Sq.mm	288312	Set	7666
317	52.1.2	3X240 Sq.mm	288314	Set	9473
318	52.1.3	3x400 Sq.mm	288315	Set	9648
	52.2	<u>Heat Shrinkable indoor type cable termination kit for XLPE cable</u>			
319	52.2.1	3X95 Sq.mm	288332	Set	2394
320	52.2.2	3X240 Sq.mm	288334	Set	3000
321	52.2.3	3x400 Sq.mm	288336	Set	3078
	52.3	<u>Heat Shrinkable outdoor type cable termination kit for XLPE cable</u>			
322	52.3.1	3X95 Sq.mm	288302	Set	2600
323	52.3.2	3X240 Sq.mm	288304	Set	3400
324	52.3.3	3x400 Sq.mm	288305	Set	3426
	52.4	<u>Heat Shrinkable indoor type cable termination kit for PILC cable</u>			
325	52.4.1	3X95 Sq.mm	288462	Set	2006
326	52.4.2	3X240 Sq.mm	288464	Set	2155
327	52.4.3	3x400 Sq.mm	288465	Set	2200
	52.5	<u>Heat Shrinkable outdoor type cable termination kit for PILC cable</u>			
328	52.5.1	3X95 Sq.mm	288456	Set	2543
329	52.5.2	3X240 Sq.mm	288458	Set	3191
330	52.5.3	3x400 Sq.mm	288460	Set	3204

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	52.6	<u>Heat Shrinkable Straight through jointing kits for XLPE cable with Copper lugs & Al ferrules</u>			
331	52.6.1	3X95 Sq.mm	288322	Set	4674
332	52.6.2	3X240 Sq.mm	288324	Set	5700
333	52.6.3	3x400 Sq.mm	288329	Set	7000
	52.7	<u>Heat Shrinkable Straight through jointing kits for PILC cable with Copper lugs & Al ferrules</u>			
334	52.7.1	3X95 Sq.mm	288450	Set	4986
335	52.7.2	3X240 Sq.mm	288452	Set	5634
336	52.7.3	3x400 Sq.mm	288453	Set	6806
	53	<u>Service Connection accessories</u>			
337	53.1	Pole mounted fibre glass reinforced aerial fuse board 60A -3 way	612614	Nos.	1022
338	53.2	Pole mounted fibre glass reinforced aerial fuse board 30A -3way	612615	Nos.	730
339	53.3	FGRP Aerial fuse boards 30A -4 way	612617	Nos.	952
340	53.4	FGRP Aerial fuse boards 30A -5 way	612618	Nos.	1077
341	53.5	FGRP Aerial fuse boards 30A -6way	612616	Nos.	1180
	54	<u>LT Service connector</u>			
342	54.1	For Weasel	288502	Nos.	31
343	54.2	For Rabbit	288503	Nos.	31
	55	<u>PVC Pipes</u>			
344	55.1	PVC Pipe-20 mm dia	778020	Mtr	15
345	55.2	PVC Pipe-25 mm dia	778025	Mtr	22
346	55.3	PVC Pipe-32 mm dia	778032	Mtr	30
347	55.4	PVC Pipe-40 mm dia	778040	Mtr	36

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
348	55.5	PVC Pipe-50 mm dia	778050	Mtr	45
349	55.6	PVC Pipe-63 mm dia	778063	Mtr	59
350	55.7	PVC Pipe-75 mm dia	778075	Mtr	70
351	55.8	PVC Pipe-80 mm dia	778080	Mtr	98
352	55.9	PVC Pipe-100 mm dia	778100	Mtr	112
353	55.10	PVC Pipe-150 mm dia	778105	Mtr	233
354	55.11	PVC Pipe-200 mm dia	778110	Mtr	352
	56	<u>GI Pipes B-Class</u>			
355	56.1	GI Pipe-20 mm dia	768040	Mtr	105
356	56.2	GI Pipe-25 mm dia	768042	Mtr	148
357	56.3	GI Pipe-32 mm dia	768043	Mtr	200
358	56.4	GI Pipe-40 mm dia	768044	Mtr	211
359	56.5	GI Pipe-50 mm dia	768046	Mtr	275
360	56.6	GI Pipe-63 mm dia	768047	Mtr	298
361	56.7	GI Pipe-65 mm dia	768048	Mtr	393
362	56.8	GI Pipe-100 mm dia	768052	Mtr	1097
363	56.9	GI Pipe-150 mm diaA CI	768058	Mtr	1098
	57	<u>PVC Insulated & Sheathed Aluminium Wires, Single core multi strand 1.1 kV class</u>			
364	57.1	PVC Wire-2.5 Sq.mm	289022	100mtr	710
365	57.2	PVC Wire-4 Sq.mm	289023	100mtr	860
366	57.3	PVC Wire-6 Sq.mm	289024	100mtr	1058
367	57.4	PVC Wire-10 Sq.mm	289025	100mtr	1467

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	58	<u>PVC Insulated & Un-Sheathed Aluminium Wires, Single core multi strand 1.1 kV class</u>			
368	58.1	PVC Wire-16 Sq.mm	289026	100mtr	1987
369	58.2	PVC Wire-25 Sq.mm	289027	100mtr	2775
370	58.3	PVC Wire-35 Sq.mm	289028	100mtr	3082
371	58.4	PVC Wire-50 Sq.mm	289029	100mtr	3809
372	58.5	PVC Wire-70 Sq.mm	289030	100mtr	5851
373	58.6	PVC Wire-95 Sq.mm	289031	100mtr	7191
374	58.7	PVC Wire-120 Sq.mm	289032	100mtr	9489
375	58.8	PVC Wire-150 Sq.mm	289033	100mtr	11716
376	58.9	PVC Wire-185 Sq.mm	289034	100mtr	13472
377	58.10	PVC Wire-240 Sq.mm	289036	Coil	17543
	59	<u>Fuse wires</u>			
378	59.1	Tinned Copper Fuse wire, 5A	625020	kg	773
379	59.2	Tinned Copper Fuse wire, 10A	625230	kg	773
380	59.3	Tinned Copper Fuse wire, 20A	625250	kg	773
381	59.4	Tinned Copper Fuse wire, 100A	625075	kg	773
	60	<u>Porcelain cut outs (500volts)</u>			
382	60.1	15A	300003	Nos.	38
383	60.2	30A	300005	Nos.	53
384	60.3	60A	300007	Nos.	158
385	60.4	100A	300010	Nos.	283
386	60.5	200A	300020	Nos.	450
387	60.6	300A	300030	Nos.	825

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	61	<u>Grounding Materials for RMUs & Transformers</u>			
		<u>Pipe Grounding</u>			
388	61.1	G.I.Grounding pipe, B-Class, 40 mm dia,2.5 mtrs long, 2.9mm thick with bolts nuts,GI Strips and washers complete	281674	Nos.	599
389	61.2	Good Quality well burnt Charcoal for grounding purposes packed in non returnable gunny bags of 30kg each	600095	Nos.	400
390	61.3	Good Quality Salt for grounding purposes packed in 50kg gunny bags	607054	Bag	300
	62	<u>Rod Earthing</u>			
391	62.1	Rod type of earthing using 40 mm dia, 3 mtr long MS rod as ground rod, in earth pit of 300 mm width and 3300mm depth and using 50x6mm flat welded to ground rod as terminal & connected to equipment ground terminal using pvc Al wire as specified	281685	Nos.	2000
392	62.2	Bentonite clay slurry for earthing in 50 kg bags	607220	50 kg Bag	400
	63	<u>Alkathine tube</u>			
393	63.1	Transparent Alkathine tube 19mm dia, 2mm thick in coils of 30 mtrs	821900	Coil	500
	64	<u>Measuring Equipments</u>			
394	64.1	High precision Single phase Electromechanical meters with magnetic suspension 2.5-10A, class-2 accuracy	357001	Nos.	836
395	64.2	High precision 3 phase. Electromechanical meters with magnetic suspension 5-20A, Class-2 accuracy	357021	Nos.	3933
396	64.3	L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	357511	Nos.	4245
397	64.4	H.T. Electronic Tri-Vector Meter 5A, Class-0.5 accuracy	357512	Nos.	6891
398	64.5	H.T. Electronic Tri-Vector Meter 5A, Class-0.2 accuracy with ABT features	357500	Nos.	15750
399	64.6	Electronic Meter, 5-10A/5-20A, S.Ph Class-1 Accuracy	357003	Nos.	1190
400	64.7	Electronic Meter, 2.5 -10A/5-20A, 3 Ph Class-1 Accuracy	357200	Nos.	3820
401	64.8	Electronic Meter, 10-40A, 3 Ph Class-1 Accuracy		Nos.	4275

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
402	64.9	Electronic Meter, 5-20/ 30A, 3 Ph 4 wire Class-1 Accuracy (whole current)	357200	Nos.	4075
403	64.10	Electronic Meter, 10-40/ 60A, 3 Ph Class-1,4 wire Accuracy (whole current)	357201	Nos.	4275
404	64.11	Electromechanical Energy Meter-3 Ph, 5-20A, Class-2 Accuracy, for I.P. Sets	357122	Nos.	1200
405	64.12	LT,S.Ph,5-30 A. Static Energy Meter of Accuracy Class in retail out lets of BESCO		Nos.	4075
406	64.13	Pre-paid Energy meter single phase	357580	Nos.	4100
407	64.14	Pre-paid Energy meter three phase	357585	Nos.	12750
408	64.15	3 phase 4 wire static meter (CT, PT operated) 3 x 63.5 V, 5 phase or 1 Amps class 0.2s with Rs-485 & ABT features		Nos.	14745
	65	<u>Meter Protection/Tamper Proof Boxes(M.S.) for L.T.Installations above 40 H.P</u>			
409	65.1	Meter Protection/Tamper Proof box with busbar, for L.T. 3 Ph with C.T. Ratio 50/5A, Class-1 Accuracy	358040	Nos.	6720
410	65.2	Meter Protection /Tamper Proof box with busbar, for L.T. 3 Ph with C.T. Ratio 75/5A, Class-1 Accuracy	358023	Nos.	6240
411	65.3	Meter Protection/Tamper Proof box with busbar, for L.T. 3 Ph with C.T. Ratio 100/5A, Class-1 Accuracy		Nos.	5952
412	65.4	LT Metering Box for housing the ETV Meters without CT's busbar wiring etc;	358050	Nos.	4000
413	65.5	Pillfer proof box for below 40HP Installations	612655	Nos.	322
414	65.6	SMC Meter protection box		Nos.	317
415	65.7	Numerical poly carbonate seals		Nos.	10

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
416	65.8	Meter Sealing Wire	626500	Nos.	160
417	65.9	High security lable seal	357590	Nos.	6
418	65.10	Poly carbonate sealing bits with out number		Nos.	3
	66	<u>L.T.Current Transformers</u>			
419	66.1	CT Ratio-25/5A, Class-1 accuracy, 3.75 VA Ring type		Nos.	613.2
420	66.2	CT Ratio-30/5A, Class-1 accuracy, 3.75 VA Ring type		Nos.	613
421	66.3	CT Ratio-50/5A, Class-1 accuracy, 3.75 VA Ring type	336010	Nos.	609
427	66.4	CT Ratio-75/5A, Class-1 accuracy, 3.75 VA, Ring type	336015	Nos.	507
428	66.5	CT Ratio-100/5A, Class-0.5 accuracy, 3.75 VA, Ring type	336020	Nos.	449
422	66.6	CT Ratio-150/5A, Class-0.5 accuracy, 3.75 VA, Ring type	336025	Nos.	337
423	66.7	CT Ratio-200/5A, Class-0.5 accuracy, 3.75 VA, Ring type	336030	Nos.	337
424	66.8	CT Ratio-300/5A, Class-0.5 accuracy, 3.75VA, Ring type	336035	Nos.	337
425	66.9	CT Ratio-400/5A, Class-0.5 accuracy, 3.75 VA, Ring type	336040	Nos.	337
426	66.10	CT Ratio-600/5A, Class-0.5 accuracy, 3.75VA, Ring type	336046	Nos.	337
427	66.11	CT Ratio-800/5A, Class-0.5 accuracy, 3.75 VA, Ring type	336050	Nos.	337
	67	<u>Instrument Transformers(P.Ts & C.Ts)</u>			
		<u>11KV P.Ts</u>			
428	67.1	P.T 11kV/110V, 50VA, Insulation level 15/35/95 kV as per IS 3156, Accuracy class 0.5	335230	Nos.	7658
429	67.2	P.T 11kV Station Type			21393

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	68	<u>11KV CTs</u>			
430	68.1	C.T- 11kV, 2.5/5A, Accuracy class 0.5	336292	Nos.	3510
431	68.2	C.T- 11kV, 5/5A, Accuracy class 0.5	336294	Nos.	3510
432	68.3	C.T- 11kV, 7.5/5A, Accuracy class 0.5	336296	Nos.	3510
433	68.4	C.T- 11kV, 10/5A, Accuracy class 0.5	336302	Nos.	3510
434	68.5	C.T- 11kV, 12.5/5A, Accuracy class 0.5	336303	Nos.	3510
435	68.6	C.T- 11kV, 15/5A, Accuracy class 0.5	336304	Nos.	3510
436	68.7	C.T- 11kV, 20/5A, Accuracy class 0.5	336306	Nos.	3510
437	68.8	C.T- 11kV, 25/5A, Accuracy class 0.5	336308	Nos.	3510
438	68.9	C.T- 11kV, 30/5A, Accuracy class 0.5	336310	Nos.	3510
439	68.10	C.T- 11kV, 40/5A, Accuracy class 0.5		Nos.	3510
440	68.11	C.T- 11kV, 50/5A, Accuracy class 0.5	336309	Nos.	3510
441	68.12	C.T- 11kV, 60/5A, Accuracy class 0.5		Nos.	3510
442	68.13	C.T- 11kV, 75/5A, Accuracy class 0.5	336315	Nos.	3510
443	68.14	C.T- 11kV, 100/5A, Accuracy class 0.5	336321	Nos.	3510
444	68.15	C.T- 11kV, 150/5A, Accuracy class 0.5	336025	Nos.	3510
445	68.16	C.T- 11kV, 200/5A, Accuracy class 0.5	336325	Nos.	3510
446	68.17	C.T- 11kV, 400/5A, Accuracy class 0.5	336335	Nos.	3510

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
		<u>H.T.Metering Equipments</u>			
	69	<u>HT Metering cubicle, 11kV Class, All single ratio CTs including ETVMeter</u>			
447	69.1	without load breakswitch	358350	Nos.	63840
448	69.2	with load breakswitch	358320	Nos.	124500
	70	<u>UPS on Line</u>			
449	70.1	1KVA	344901	Set	24821
450	70.2	5KVA	344905	Set	91050
	71	<u>Heavy duty Copper terminals</u>			
451	71.1	25 Sq.mm Copper terminals	288507	Nos.	22
452	71.2	35 Sq.mm Copper terminals	288508	Nos.	23
453	71.3	50 Sq.mm Copper terminals	288509	Nos.	34
454	71.4	70 Sq.mm Copper terminals	288510	Nos.	54
455	71.5	95 Sq.mm Copper terminals	288511	Nos.	79
456	71.6	120 Sq.mm Copper terminals	288512	Nos.	85
457	71.7	150 Sq.mm Copper terminals	288513	Nos.	112
458	71.8	185 Sq.mm Copper terminals	288514	Nos.	157
459	71.9	225 Sq.mm Copper terminals	288515	Nos.	202
460	71.10	240 Sq.mm Copper terminals	288516	Nos.	204
461	71.11	300 Sq.mm Copper terminals	288517	Nos.	295
462	71.12	400 Sq.mm Copper terminals	288518	Nos.	496

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	72	<u>Heavy duty Copper terminals long barrel</u>			
463	72.1	25 Sq.mm Copper terminals	288527	Nos.	22
464	72.2	35 Sq.mm Copper terminals	288528	Nos.	34
465	72.3	50 Sq.mm Copper terminals	288529	Nos.	53
466	72.4	70 Sq.mm Copper terminals	288530	Nos.	81
467	72.5	95 Sq.mm Copper terminals	288531	Nos.	123
468	72.6	120 Sq.mm Copper terminals	288532	Nos.	169
469	72.7	150 Sq.mm Copper terminals	288533	Nos.	213
470	72.8	185 Sq.mm Copper terminals	288534	Nos.	305
471	72.9	225 Sq.mm Copper terminals	288535	Nos.	425
472	72.10	240 Sq.mm Copper terminals	288536	Nos.	448
473	72.11	300 Sq.mm Copper terminals	288537	Nos.	496
474	72.12	400 Sq.mm Copper terminals	288538	Nos.	1009
	73	<u>Al end terminals (Lugs)</u>			
475	73.1	10 Sq mm	288605	Nos.	2
476	73.2	16 Sq mm	288606	Nos.	2
477	73.3	25 Sq mm	288607	Nos.	4
478	73.4	32 Sq mm	288608	Nos.	5
479	73.5	50 Sq mm	288609	Nos.	9
480	73.6	70 Sq mm	288610	Nos.	12
481	73.7	95 Sq mm	288611	Nos.	16
482	73.8	120 Sq mm	288612	Nos.	21
483	73.9	150 Sq mm	288613	Nos.	25
484	73.10	185 Sq mm	288614	Nos.	38
485	73.11	225 Sq mm	288615	Nos.	42

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
486	73.12	240 Sq mm	288616	Nos.	62
487	73.13	300 Sq mm	288617	Nos.	73
488	73.14	400 Sq mm	288618	Nos.	95
	74	<u>TOOLS AND PLANT</u>			
489	74.1	Battery Hydrometer	429810	Nos.	100
490	74.2	Multimeter ElectronicType	359215	Nos.	900
491	74.3	Multimeter electromechanical type		Nos.	1619
492	74.4	Rubber Hand gloves 15kV, SEAMLESS Confirming to ISS. (Sample to be verified for seamless before approval).	427252	Pair	will be intimated after BESCOM tender is opened.
493	74.5	Thermometer (Wall Mounted)	430395	Nos.	231
494	74.6	Portable drilling machine	410020	Nos.	2150
495	74.7	Megger 500 V	359400	Nos.	2250
496	74.8	Megger 2.5kV-5kV	359450	Nos.	4500
497	74.9	Silica gel	607056	kg	170
498	74.10	Grounding Sticks / rods (Earthing Rods)	427210	Set	1710
499	74.11	<u>Telescopic Earthing Rods.</u>			1254
500	74.12	Panel Indication lamps		Nos.	12
501	74.13	Ring Spanners		Set	1577
502	74.14	Tube Spanners		Set	600
503	74.15	Pipe Wrentch 24 inches size		Nos.	788
504	74.16	Pipe wrentch 18 inches size		Nos.	300
505	74.17	Double end spanner		Set	283
506	74.18	Hack saw frames + B185		Nos.	100
507	74.19	Hand Torch 5 celled		Nos.	120
508	74.20	Hand Torch 3 celled		Nos.	60

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
509	74.21	Rechargeable LED Hand Torch		Nos.	681
510	74.22	portable inflatable emergency lighting system		Nos.	1898135
511	74.23	Insulated cutting pilers 12 inches size		Nos.	200
512	74.24	Insulated cutting pilers 8 inches size		Nos.	152
513	74.25	Live line tester(HT)		Nos.	70
514	74.26	LT Line Tester		Nos.	38
515	74.27	High Voltage Detector		Nos.	15863
516	74.28	Screw driver 18 inches size		Nos.	80
517	74.29	Screw driver 12 inches size		Nos.	69
518	74.3	Screw driver 8 inches size		Nos.	72
519	74.31	Hammer 8 Lbs		Nos.	200
520	74.32	Hammer 2 Lbs		Nos.	150
521	74.33	Allen keys		Nos.	192
522	74.34	Adjustable Screw Spanner 8 Inches			142
523	74.35	Adjustable Screw Spanner 12 Inches		Nos.	227
524	74.36	Box spanners		Set	2000
525	74.37	Transil oil Dielectric Breakdown testkit		Nos.	63000
526	74.38	SF6 gas leak detector		Nos.	31539
527	74.39	D.C.Volt meter range - 3V to +5V		Nos.	450
528	74.4	Hydrometer syring suitable for vent holes		Nos.	150
529	74.41	Specific gravity correction chart		Nos.	150
530	74.42	Wall mounting type holder for Hydrometer		Nos.	100
531	74.43	Earth resistance tester		Nos.	5400
532	74.44	Rubber apron		Nos.	185
533	74.45	Pipette		Nos.	350

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
534	74.46	Protective Goggle		Nos.	350
535	74.47	Acid Resisting jars (4 Pint capacity)		Nos.	375
536	74.48	Rain Coats with Hoods		Nos.	439
537	74.49	Rubber shoes knee height		Nos.	504
538	74.50	Glass Funnel		Nos.	105
539	74.51	Hickery rods		Nos.	957
540	74.52	Manilla rope 1"		Mts.(100)	2200
541	74.53	Manilla rope 3/4"		Mts.(100)	1800
542	74.54	Polypropylene Rope of 26mm dia		Kgs.	211
543	74.55	Files of sizes		Set	250
544	74.56	Safety belts		Nos.	610
545	74.57	Safety helmets		Nos.	112
546	74.58	Safety Helmets attached with electronic induction tester.			811
547	74.59	Hand operated crimping tool 25sq.mm to 400sq.mm		Nos.	7870
548	74.60	Common meter reading instrument		Nos.	25925
549	74.61	Thermal Imaging Camera		Nos.	357000
	75	<u>Miscellaneous Materials</u>			
550	75.1	Cable covering tiles 125x250x40 mm	801035	Per 1000	10000
551	75.2	Cable covering tiles 125x125x40 mm	801034	Per 1000	5000
552	75.3	RCC hume pipes 200mm long 150mm dia	820672	Nos.	300
553	75.4	RCC hume pipes 2000mm long 200mm dia	820673	Nos.	380
554	75.5	Collars for RCC hume pipe 150mm dia	820703	Nos.	80
555	75.6	Collars for RCC hume pipe 200mm dia	820704	Nos.	100
556	75.7	M.S.Pipe 200mm dia with collars	765050	Mtr	937
557	75.8	Burnt Bricks (class 35 modular)		Nos.	5

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
558	75.9	Wire cut bricks (Class 75 Modular)		Nos.	10
559	75.10	Pre-cast hollow blocks (40x20x20 cms) grade 30		Nos.	26
560	75.11	River sand	800650	cmt	1640
561	75.12	Artificial Sand / manufacture sand		cmt	950
562	75.13	Cement in 50kg bags	800030	Bags	330
563	75.14	Ready Mix concrete M20 (1:1.5:3)		cum	3450
564	75.15	Ready Mix concrete M25 (1:1:2)		cum	3850
565	75.16	Spall (Jelly used for packing)		cum	50
566	75.17	Stone spalls		cum	130
567	75.18	Stone boulders		cum	200
568	75.19	Route & joint indicating stone with M. s Anchor rod	802460	Nos.	115
569	75.2	Black Cambric tape 25 mm wide 10mil thick and in rolls of 50 Mtr		Roll	120
570	75.21	Yellow Cambric tape 25 mm wide 7mil thick and in rolls of 50 Mtr		Roll	110
571	75.22	PVC Insulation Tapes 19 mm wide and in rolls of 10 Mtrs	622720	Roll	10
572	75.23	ACB Paint	632030	Ltr	120
573	75.24	Aluminium Paint	632013	Ltr	180
574	75.25	Grey Enamel Paint smoke/battle ship	632050	Ltr	250
575	75.26	Red Oxide Paint	632020	Ltr	90
576	75.27	Cotton Tapes 19 mm wide and in rolls of 50 Mtrs		Roll	35
577	75.28	Cotton Waste	627520	kg	50
578	75.29	Hack saw blade 300x12.5 mm	418185	Nos.	7
579	75.30	T.W plate 300x300x25 mm with 20mm dia holes at the corners and coated with two coats of varnish on one side / SMC board.	612621	Nos.	230
580	75.31	T.W.Meter Board, 300x300x75mm, coated with varnish/ SMC board	612623	Nos.	110

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
581	75.32	Monoplast	506559	100 Gms.	55
582	75.33	Bitumen compound		kg	65
	76	<u>Copper Control cables 1.1 kV Class</u>			
583	76.1	a) 2 Core 2.5 Sq.mm	289352	km	41180
584	76.2	b) 4 Core 2.5 Sq.mm	289354	km	73260
585	76.3	c) 10 Core 2.5 Sq.mm	289360	km	161220
586	76.4	d) 14 Core 2.5 Sq.mm	289364	km	234490
587	76.5	e) 19 Core 2.5 Sq.mm	289369	km	314530
588	76.6	f) 2 Core 6 Sq.mm	289452	km	91950
589	76.7	g) 2 Core10 Sq.mm			117730
590	76.8	h) 4 Core 4 Sq.mm	289404	km	151830
591	76.9	i) 4 Core 6 Sq.mm	289454	km	154910
592	76.10	j) 4 Core 10 Sq.mm	289474	km	252240
593	76.11	k) 4 Core 16 Sq.mm	289484	km	375150
594	76.12	Flurocent light fitting	446024	Nos.	255
595	76.13	Flurocent tube	611530	Nos.	40
596	76.14	T- 5 tubelight fitting complete 28 watts with tube - 4 feet		Nos.	440
597	76.15	floracent lamp for above			102
598	76.16	T -5 tubelight fitting complete 14 watts with tube - 2 feet		Nos.	425
599	76.17	floracent lamp for above			90
600	76.18	Sodium Vapour lamp(250W)	611730	Nos.	650
601	76.19	Automatic Switches for Street lights	612645	Nos.	1850
602	76.2	GI Bracket for Flurocent tube	446044	Nos.	300

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
603	76.21	Sodium Vapour lamp ignitors	612240	Nos.	225
604	76.22	Caution / Danger board	278832/278811	Nos.	108
605	76.23	Standard Torch cell 1.5V	613050	Nos.	11
606	76.24	Street light metering box made of MS sheet steel	612660	Nos.	1913
607	76.25	Street light metering box made of SMC		Nos.	1400
	77	<u>Compact Fluorescent Lamps</u>			
608	77.1	5 watts		Nos.	100
609	77.2	8 Watts		Nos.	104
610	77.3	11 watts	611551	Nos.	120
611	77.4	14 watts	611554	Nos.	116
612	77.5	18 watts	611558	Nos.	148
613	77.6	23 watts	611563	Nos.	168
	78	<u>M.S.Bolts & Nuts</u>			
614	78.1	B & N Size 16X40mm	733612	MT	75500
615	78.2	B & N Size 16X50mm	733613	MT	75500
616	78.3	B & N Size 16X65mm	733616	MT	75500
617	78.4	B & N Size 16X75mm	733618	MT	75500
618	78.5	B & N Size 16X85mm	733620	MT	75500
619	78.6	B & N Size 16X100mm	733623	MT	75500
620	78.7	B & N Size 16X125mm	733625	MT	75500
621	78.8	B & N Size 16X150mm	733628	MT	75500

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
622	78.9	B & N Size 16X175mm	733630	MT	75500
623	78.10	B & N Size 16X200mm	733633	MT	75500
624	78.11	B & N Size 16X225mm	733634	MT	75500
	79	<u>LT Brass Terminal Connector for Transformer (630Amps, approx. Weight 0.790kg.)</u>			
625	79.1	250 kVA	542180	Nos.	748
626	79.2	500 kVA	542185	Nos.	748
	80	<u>Brass Cable Glands</u>			
627	80.1	25 mm	542190	Nos.	62
628	80.2	32 mm	542192	Nos.	75
629	80.3	40 mm	542194	Nos.	117
630	80.4	45 mm	542196	Nos.	156
	81	<u>LT Capacitor 3 Ph. Housed in a encloser with necessary fusses, wiring, mounting arrangement as per tech. Spec.</u>			
631	81.1	3 kVAr	333103	Set	525
632	81.2	9 kVAr	333109	Set	931
633	81.3	18 kVAr	333118	Set	1733
634	81.4	27 kVAr	333127	Set	2758
635	81.5	54 kVAr	333154	Set	4883

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	82	<u>FOR DISTRIBUTION TRANSFORMER CENTRES</u> MS Box for housing the ETV Meter 3 phase 4 wire 5A, with associated LT CTs class 0.5 accuracy, ring type, with wiring clamps, B&N and all other accessories required. (EXCLUDING ETV METER)			
636	82.1	With CT ratio 50/5 for 15/25 kVA Distribution Transformer Centre	358055	Set	5827
637	82.2	With CT ratio 100/5 for 50/63 kVA Distribution Transformer Centre	358060	Set	5347
638	82.3	With CT ratio 150/5 for 100 kVA Distribution Transformer Centre	358065	Set	5011
639	82.4	With CT ratio 400/5 for 250 kVA Distribution Transformer Centre	358070	Set	5011
640	82.5	With CT ratio 800/5 for 500 kVA Distribution Transformer Centre	358075	Set	5011
641	82.6	SMC metering box as above		Set	4545
	83	<u>Installing RLMU for the existing Distribution Transformer Center</u>			
642	83.1	Providing RLM Unit with necessary wiring for housing PLC,MCCB,MCB,Energy Meter, CTs, Cotactors etc., as per specification in Metallic Enclosure	358086	Nos.	10752
643	83.2	Programmable Logic Controllers with communication ports	358098	Set	19339
644	83.3	GSM Modem	447662	Nos.	7642
645	84	<u>MCCB</u>			
646	84.1	for 25 kVA, 40 /60 Amps	358088	Nos.	1485
647	84.2	for 63 kVA, 100 Amps	358090	Nos.	1500
648	84.3	for 100 kVA,160 Amps		Nos.	1700
649	84.4	for 100 kVA,250 Amps			5486
650	84.5	for 250 kVA,400 Amps			9752
651	84.6	for 500 kVA,630 Amps			16450

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
652	84.7	MCB 6 Amps	358094	Nos.	210
	85	<u>Contactors</u>			
653	85.1	for 25 kVA, 40 Amps	352440	Nos.	2010
654	85.2	for 63 kVA, 100 Amps	352460	Nos.	3280
655	85.3	for 100 kVA,160 Amps	352480	Nos.	5775
656	85.4	for 100 kVA,225 Amps			11390
	86	<u>Compact Pre-fabricated Packaged Sub-station 11kV / 433 V</u>			
		<u>Packaged Sub-station 11kv/433V consisting of 3 way SF6/VCB insulated compact RMU, oil cooled/dry type copper wound transformer and L.T. section with one ACB as incoming and 7 no. outgoing MCCB feeders, and with encloser made of electronically Galvanized</u>			
657	86.1	With 500 kVA oil cooled transformer	276550	Nos.	1579163
658	86.2	With 750 kVA oil cooled transformer	276575	Nos.	1824000
659	86.3	With 990 kVA oil cooled transformer	276590	Nos.	2280000
660	86.4	With 500 kVA dry type transformer	276560	Nos.	1997538
661	86.5	With 750 kVA dry type transformer	276585	Nos.	2507446
662	86.6	With 990 kVA dry type transformer	276599	Nos.	2908949
	87	Breakup prices			
	87.1	<u>Copper wound Oil Cooled Distribution Transformer</u>			
663	87.1.1	500 kVA	321450	Nos.	760099
664	87.1.2	750 kVA	321475	Nos.	941028
665	87.1.3	990 kVA	321490	Nos.	1255765
666	87.1.4	LT ACB 2000A	310520	Nos.	115716
667	87.1.5	MCCB 400A	358097	Nos.	14100

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	88	<u>SCRAP MATERIALS</u>			
		Note: The rates are indicative and the respective zones are authorized to fix the floor price suitably as approved in the Common SR 2012-13 meeting held on 09.11.2012 and confirmed vide proceedings			
668	88.1	Copper wire	791210	kg	421
669	88.2	Released Copper winding released from failed distribution transformers		kg	158
670	88.3	Copper conductor	791200	kg	421
671	88.4	Copper Ingots	791205	kg	294
672	88.5	Copper Cable with Leads		kg	216
673	88.6	Aluminium	791010	kg	120
674	88.7	Aluminium wire in pieces		kg	83
675	88.8	Released Aluminium winding released from failed distribution transformers		kg	81
676	88.9	ACSR conductor	791100	kg	87
677	88.10	Aluminium UG cable		Kg	105
678	88.11	Scrap Al Released From UG Cable	791530	kg	86
	89	<u>Iron Items</u>			
679	89.1	a) SM Rail pole, I beam	790100	kg	28
680	89.2	b) Ladder pole, Tower parts, Tubular poles	790101	kg	26
681	89.3	c) Cross arms, Clamps etc	790104	kg	26
682	89.4	d) Released steel from RCC Poles (Skeleton rods)	790104	kg	26
683	89.5	e) Barbed/Ground wire /Zinc sheet etc		kg	20
684		Transformer Empty tanks of different capacity	790300	Nos.	1704

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
685	89.7	Scrap GOS with insulators		kg	25
686	89.8	Broken steel furniture		kg	26
687	89.9	Brass	791300	kg	176
688	89.10	Baliga Poles	793510	Rmtr	72
689	89.11	Scrap wooden furniture		kg	16
690	89.12	Empty barrel of 210 litres capacity-Good	442120	Nos.	452
691	89.13	Empty barrel of 210 litres capacity-Bad	795030	Nos.	300
692	89.14	Lead	791400	kg	85
693	89.15	HT Metering cubicle,Distribution boxes, feeder pillar boxes etc	795240	Kg	22
694	89.16	Energy meters(Electro mech) Single phase	795910/20	Kg	77
695	89.17	Energy meters(Electro mech) 3 phase		Kg	
696	89.18	Single / 3 phase electronic meters		Kg	
697	89.19	CTs & PTs	795500	Kg	478
	90	<u>Scrap Distribution Transformer of Aluminium winding (without oil)</u>			
681	90.1	1) 15kVA		Each	9000
698	90.2	1) 25kVA	795104	Each	10503
699	90.3	2) 63kVA	795106	Each	16600
700	90.4	3) 100kVA	795110	Each	22880
701	90.5	4) 200kVA	795120	Each	50000
702	90.6	5) 250kVA	795125	Each	52000
703	90.7	6) 300kVA	795130	Each	55000
704	90.8	7) 500kVA	795150	Each	66500

Sl. NO.	Item No.	Name of the Material	Material Code	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	91	<u>Scrap Distribution transformer of Copper winding (without oil)</u>			
705	91.1	1) 15kVA		Each	9740
706	91.2	1) 25kVA	795160	Each	26066
707	91.3	2) 50kVA	795165	Each	25126
708	91.4	2) 63kVA	795166	Each	35000
709	91.5	3) 100kVA	795170	Each	45402
710	91.6	4) 200kVA	795180	Each	76004
711	91.7	5)250KVA		Each	85000
712	91.8	6) 300kVA	795190	Each	91767
713	91.9	7) 500kVA	795195	Each	152393
714	91.10	8) 5 MVA			915000
	92	<u>Scrap C.S.P. 11kV Distribution Transformer</u>			
715	92.1	1)15kVA		Each	9736
716	92.2	2) 25 kVA	795158	Each	6000
717	92.3	3) 63 kVA	795160	Each	10000
	93	<u>Scrap Wooden Reels</u>			
718	93.1	1) In good condition		Kg	14
719	93.2	2) MT Wooden Reel Deteriorated and with iron Rods	790103	Nos.	77

Rates for COMMON SR - 2012-13 for 33kV System (Labour)

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	1	Detailed Surveying on Turn-Key:		
	i)	Reconnaissance Survey-cum-walk over Survey along with Departmental Staff to determine the feasible route of the line on topo sheet. An alternate route if available should be indicated. The route of the line is to be indicated and got approved by the competent authority (Rates include the cost of Toposheet and Transportation)		
1	a)	Hilly terrain	km	636
2	b)	Plain terrain	km	618
	ii)	Detailed Survey, fixing anchor points and taking levels at 20 mtrs intervals drawing route profile on Graph paper indicating geographical features like Nalas, Rivers, Gardens, P&T Lines, Railway-crossings etc., and enroute villages.		
3	a)	Hilly terrain	km	3147
4	b)	Plain terrain	km	2101
5	iii)	Fixing marking stones with approved marks including painting above the ground level and Yellow Lettering and marking the direction of incoming line and out going lines are to be clearly marked on the top with red colour. If the distance between two anchor points is more than 1 km, one more directional stone is to be fixed. So also for the road crossing, railway crossing ,River crossing , HT crossing and nala crossing for all on both the sides.	Per Stone	313
6	iv)	Burgie details for identification for all Anchor towers with existing permanent marks like poles, telephone lines, buildings, etc.,	Per Anchor Tower	283
7	v)	v) Conducting soil resistivity tests	Per Test	542
	vi)	Clearing of bushes, tree branches of trees crops and shrubs wherever encountered for detailed survey to enroute the corridor width of 3 mtrs (including viewing for fixing anchor towers etc.,)		
8	a)	Hilly terrain	km	939
9	b)	Plain terrain	km	627

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
10	vii)	a) Submission of reports in the form of good binding including the preparation of sketches for burgie details for each anchor points, scheduling of line details, S.R. values, soil classification reports, tower schedule, abstract of towers etc., complete.	Per Set	191
11		b) Drawing the route profile on graph sheet, including geographic feature like Nalas, rivers, gardens, P&T lines railway crossing etc, inclusive of all stationaries. (Normal requirement is 5 Sets)		191
12	Viii) a)	Preparing the Schedules: PTCC Proposal : Containing PTCC questionnaire, topo sheet extracts with marking of the proposed line, S.R. Report, tower sketch, station single line diagram etc.,(30 Copies/Sets)	set	757
13	b)	Railway Crossing proposal with drawing are inclusive of graph sheets and other stationery materials, labour etc., (10 Sets)	Per Crossing	757
14	c)	Tree Schedule Containing the details like name of tree, girth size of tree, distance from central line of the alignment, approximate height of the tree etc., complete	Per Hectare	542
15	d)	Forest proposals : Inclusive of all works like fixing of stones at every 20 mtrs in the centre line and both ends of the corridor, painting of each tree after chipping, writing the numbers on the tree, taking girth size of all the trees coming in the corridor at 1 mtr height from GL, approximate height of the tree and forest clearance proposals etc., complete (10 Sets).	km	3529
	2	Check Survey by using their own Equipment		
16		a) Hilly terrain	km	1627
17		b) Plain Terrain	km	1089
	3	Taking block levels for Sub-staitons:		
18	a)	Running Peripheral Theodolite traverse along periphery and coordinating and heightening of all corners/turning points, establishing permanent co-ordinate axis formation of grids at 50m intervals for northing and easting with reference to already established permanent co-ordinate axis levels at 50m grid intersection for preparing plot plan of the entire area with contours. Including existing structure location.	Acre	1047

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
19	b)	Establishing datum level and bench marks at every 100m/50m intervals both longitudinal and laterally and all corners/turning points with stone pillars of size not less than 0.2mx2mx1.0m buried on the ground and exposed top engraved for painting RL, and coordinates of that point.	No.	1047
20	c)	Taking level at 5M suitable grid interval in the sub-station area for plotting block levels, contour map.	No.	23
21	d)	Preparation of CAD drawings, generating the contours using appropriate software and submission of 6 sets of blue prints and one tracing sheet (original) and one soft copy etc. Complete.	Per Project	10464
22	e)	Furnishing cutting and filling quantities using appropriate software for earth work calculation.	Per Project	3139
23	f)	Super imposing GA drawings on contour maps in Co-ordination with departmental engineers and supply of 12 sets of blue print drawings etc., complete.	Project	8370
	4	Geo Technical Investigations:		
24	a)	Making 150mm nominal diameter bore holes at various locations in soil using suitable approved method of boring including, cleaning providing Bore holes at interval and at change of strata, collections of water samples, observation such as ground water etc., Collection of undisturbed soil samples at ever 2.0m/3.0m interval and at change of strata, transportation of all the collected samples to the laboratory and back filling of bore holes on completion of the work, complete as per specification and instruction of the engineers, for depths up to 6.0 m below natural ground level or refusal strata.	mtr	1566
	b)	Conducting various laboratory tests on soil samples at approved laboratory including preparation of soil samples for determination of soil, Properties etc., Complete as per specification. Note: Laboratory identified shall be approved by ESCOM Engineers not below the rank of EE(Civil).		
25	i)	Bulk density and moisture content	Each	627
26	ii)	Sieve analysis	Each	627
27	iii)	Hydrometer Analysis	Each	627
28	iv)	Liquid limit and plastic limit	Each	627

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
29	v)	Shrinkage limits	Each	733
30	iv)	Specific gravity	Each	733
31	vii)	Standard proctor density test	Each	733
32	viii)	Swell pressure	Each	840
33	ix)	Free swell index	Each	840
34	x)	Uncombined Compressive strength	Each	840
35	xi)	Triaxial shear test	Each	840
36	xii)	One dimensional consolidation test	Each	840
37	xiii)	California bearing ratio	Each	840
38	C)	Submitting final report in 6 copies including all field records and laboratory test results, graphs and recommendations etc., complete as per specifications.	Per Job	12558
		Note: The above rates are inclusive of mobilization of Plant Equipment & Materials for , Topographical survey, block leveling and Geotechnical investigation works, and Demobilization. No extra rate is admissible for mobilization & Demobilization		
	5	Excavation for station structure:		
		Excavation of pits as per specifications for lattice type of station structures, Tr. Plinth, control panels, mounting structures for breakers, CT's, PT's Isolators, LA's etc., Excavation of trenches for control cables, U.G. Cables, Groundmat etc.,		
39	i)	Normal Soil	cmt	As per KPWD SR applicable to respective area
40	ii)	B.C. Soil	cmt	
41	iii)	Partially Submerged soil	cmt	
42	iv)	Fully submerged soil	cmt	
43	v)	Wet black cotton soil	cmt	
44	iv)	Dry fissured/Ordinary rock	cmt	
45	vii)	Latterite soil	cmt	
46	viii)	Hard rock with blasting/Hard latterite	cmt	
		Note 1: For Excavation purposes measurement shall be as per actuals. 2: For foundation purposes predominant soil shall be considered.		
	6	Excavation (For Tr. Line Tower)		
47	i)	Normal Soil	cmt	
48	ii)	B.C. Soil	cmt	

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
49	iii)	Partially Submerged soil	cmt	Rates as per item 5 + 50% extra
50	iv)	Fully submerged soil	cmt	
51	v)	Wet black cotton soil	cmt	
52	vi)	Dry fissured/Ordinary rock	cmt	
53	vii)	Latterite soil	cmt	
54	viii)	Hard rock with blasting/Hard latterite	cmt	
	7	Back Filling :		
55	i)	Back filling with excavated earth available near the tower and consolidation layer by layer of 150 mm depth with adequate quantity of water.	cmt	As per KPWD SR applicable to respective area + 10% extra
56	ii)	Supplying and back filling with external hard murrum soil with proper consolidation including lead and lift.	cmt	As per KPWD SR applicable to respective area + 10% extra
		Note: This item is applicable only when Black cotton soil, wet black cotton soil, dry fissured rock, ordinary rock, Hard rock are encountered.		
	8	Concreting and curing (For Both Transmission lines and station structures)		
	a)	Concreting and curing as per specifications including the cost of materials, T&P materials and labour charges with all lead and lift, for lattice type station structures, Tr. Plinth, control panels, mounting structures for Breakers, CT's PT's Isolators, LA's, etc.,		
57	i)	1:4:8 concrete	cmt	As per KPWD SR applicable to respective area
58	ii)	1:3:6 concrete	cmt	
59	iii)	1:2:4 concrete	cmt	
60	iv)	1:1.5: 3 concrete (M-20)	cmt	
61	b)	Concreting and curing as per specifications including the cost of materials, T&P materials and labour charges with all lead and lift, for Tr. line towers.	cmt	For arriving at the rates for concrete items for transmission lines add 25% weightage to the basic rates of different proportion of concrete proposed above

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
		Note : a) Extra rate of Rs. 20 per cmt may be allowed for providing concrete in watery situation including cost of bailing out water and removing slush. b) Only machine mixing is to be used for concreting. c) Jelly to be used is 20mm and down size for 1:1.5:3, 1:2:4 and 1:3:6 concrete and 40mm and down		
	9	Towers		
62	a)	Sorting of tower parts made of fabricated angle iron	MT	245
63	b)	Setting up of stubs templates and from one location to another location	Per Locn	318
64	c)	Assembling and erection of towers including tightening of bolts and nuts including loading,unloading at store and site (Including the Wt. of stubs)	MT	1779
65	d)	Rivetting of tower bolt ends by heating using dry-Acetylene gas and hammering to destroy threads so as to make the tower members theft - proof (Bolts at nodal points only to be selected and rivetted up to height of bottom cross arm, as per the directions of the field engineer)	Per Bolt	8
66	e)	Welding of bolts and nuts	Per Bolt	8
		Note: For tower erections requiring shutdown 25% above S.R. for item 5c to 5e only are to be adopted.		
	10	Supplying and fixing A.C. devices:		
67	a)	Supplying and fixing G.I. Angle iron 45x45x5 mm (1mtr length) with cleats, bolt & nuts as per specification and fixing above 0.5 mtrs length each at inner and outer surface of the tower to facilitate running of barbed wire.	Per Set	1741
68	b)	Supplying and fixing barbed wire as per specification	Rmtr	33
	11	Fixing of Boards		
69	a)	Fixing Danger Board	No	34
70	b)	Fixing Number Plate	No	34
70	c)	Fixing Phase plate	Set (3Nos.)	100
72	d)	Fixing Circuit Plates	No	34
	12	Stringing Conductors for short lengths: These Rates are applicable only when total Length of the entire Line is less than 3 spans (River crossing, railway crossing Etc.,).		

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
		A) Stringing of conductors in special conditions where normal 5 spans between anchor to anchor are not encountered, whereas anchors are provided at single/two/three spans with average span intervals of 267/320 Mtrs, (rate for spans of single conductor)		
		i) For hilly terrian		
73		a) Anchoring single span upto 320 mtrs.	With Coyote	4102
			With Rabbit	2009
74		b) Anchoring 2 span interval upto 640 mtrs with 1 tangent tower only	With Coyote	5086
			With Rabbit	2429
75		c) Anchoring 3 span interval up to 960 mtrs with two tangent towers only	With Coyote	5966
			With Rabbit	2871
		ii) For plain terrian		
76		a) Anchoring single span up to 320 Mtrs	With Coyote	3077
			With Rabbit	1482
77		b) Anchoring 2 span interval upto 640 Mtrs with 1 tangent tower only	With Coyote	3941
			With Rabbit	1818
78		c) Anchoring 3 span interval up to 960 mtrs with two tangent towers only	With Coyote	4414.47
			With Rabbit	2132
	13	Rates for Short span stringing in Normal length of the line of more than 3 spans comprising of short spans		
		A) Stringing of conductors in special conditions where normal 5 spans between anchor to anchor are not encountered, where as anchors are provided at single/two/three spans with average span intervals of 275/320 Mtrs, (rate for spans of single conductor)		
		i) For hilly terrian		

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
79		a) Anchoring single span upto 320 Mtrs	With Coyote	611
			With Rabbit	299
80		b) Anchoring 2 span interval upto 640 Mtrs with 1 tangent tower only	With Coyote	1016
			With Rabbit	490
81		c) Anchoring 3 Span interval up to 960 Mtrs with two tangent towers only	With Coyote	1490
			With Rabbit	718
		ii) For Plain terrain		
82		a) Anchoring single span upto 320 Mtrs	With Coyote	459
			With Rabbit	223
83		b) Anchoring 2 span interval upto 640 Mtrs with 1 tangent tower only	With Coyote	748
			With Rabbit	367
84		c) Anchoring 3 Span interval upto 960 Mtrs with two tangent towers only	With Coyote	1107
			With Rabbit	557
	14	Grounding of towers/Equipments		
85		a) Grounding of towers including cost of 40mm dia 2.5 mm thick, class 'C' G.I. Pipe of 3 Mtrs length as per specifications, with 50X6 mm GI Flats 3 Mtr long, salt charcoal, including excavation charges.	Set	2777
86		b) Grounding of towers/Equipments excluding the cost of G.I. Pipe/C.I. Pipe as per specifications with 50X6 mm G.I. Flat 3 Mtr Long (to be supplied departmentally). But salt & Charcoal to be supplied by contractor. The rates include excavation charges.	Set	1336

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
87		c) Grounding of equipments by providing cast iron pipe of 100mm ID 13mm thickness, 2.75 Mtrs long with 2 part clamp out of G.I.Flat 50X6mm continuously welded around the pipe using cast iron welding electrodes as per drawing including the cost of excavation (All materials to be supplied by the contractor)	Set	1867
		Note : All the leads from earthmat & equipment should be connected to earth electrode through the GI Flat 50 x 6 mm of suitable length and welded as per specifications.		
88	15	Supplying and fixing of counter poise earthing with G.I. Stranded wire where hard rock is encountered as per specifications. (including excavation charges).	Per Loc	3668
	16	Station Structures		
89	a)	Erection, assembly and alignment of Station structure as per the directions of site Engineer.	MT	
90	b)	Erection, alignment & assembly of fabricated steel lattice structure, pedestal structures & Mounting structures, for G.O.S., CT's, PT's LA's etc.,	MT	1565
	17	Erection of Transformers		
91	a)	Moving the Transformer on to the plinth (Maximum allowable distance is 50 mtrs.) more than 50 mtrs. approval of the CEE, O&M Zone has to be obtained)	Per MT/mtr	33
92	b)	Assembly of Transformer parts like bushings, radiators, filling oil into Tr. etc., (for the total wt. of the Tr.)	MT	750
93	c)	Filling oil to the power Tr., Conservator and radiator (for maintenance purpose only).		
94	i)	For 5 MVA to 20MVA Tr.	Litre	1
95	d)	Filtration of oil using filter set of the contractor, to bring the insulation value to I.E. Specifications.	Litre	3
96	e)	Filtering Oil as above but with the filter set supplied by the company.	Litre	1
	18	Wiring of Transformer marshalling box, bucholtz relay, fixing Thermometer, OLTC upto control panel and assisting in testing and commissioning by RT/MT/Firm Engineers.		

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
97	i)	5 MVA to 6.3/8 MVA Tr.	L/S	3451
98	19	Fabrication of Transformer railing and embedding in Transformer plinth. (Rails to be supplied by the HESCOM)	L/S	693
99	20	Fixing of H.T. fuse units & wiring	Per Set (3 Nos)	806
	21	Wiring Testing & Commissioning of 5 MVA 33/11 kV Power Transformers		
100		a) Wiring: Identification of wires, Ferruling crimping and termination of wires. Wiring of Protective Devices, Cooling fans, Oil flow Pumps, OLTC, RTCC	5917	8370
101		b) Testing: 1. Ratio Test 2. SC test 3. Excitation test 4. Magnetic Balance test 5. Vector group test. 6. induced high voltage test. 7. OLTC operation. 8. Protective devices operation checks. 9. stability checks:- for differential and REFR protection	Each	33481
	22	Erection of Breakers / 11kV Kiosks with CTs on Mounting Structures		
	a)	BREAKERS		
102	i)	Erection, assembly, alignment & interpole wiring of breakers with its connected equipments including movement from the point of unloading to the point of erection.	Per Set	4880
103	ii)	Assisting in Testing and Commissioning	Each	976
104	iii)	Testing & Commissioning: Wiring: Identification, of wires Ferruling crimping and termination of wires in Breaker & Wiring up to control panel / Relay panels. Testing: Test for insulation level, gas leakage, Testing for travel time, Trip and close timings. Local Trip close Test, Remote trip and close test, Tripping through relays, operation of interlocks etc.,	Each	41848
	23	Erection of CTs and PTs		
105	a)	Erection of CTs and PTs and wiring including movement from the point of unloading to the point of erection.	Set (3 Nos.)	1224

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
106	b)	Assisting in Testing and Commissioning	Set (3 Nos.)	368
	c)	Testing & Commissioning		
107	i)	Current transformers: Wiring: Identification of wires Ferruling Crimping of lugs Connections up to marshalling box and Control panel. Tests: Insulation, Polarity , Ratio, Excitation	Set (3 Nos.)	13947
108	ii)	Potential Transformers: Wiring: Identification of wires Ferruling Crimping of lugs Connections up to marshalling box Tests: Insulation , Polarity, Ratio.	Set (3 Nos.)	13947
	24	Erection of NCTS		
109	a)	Erection of NCTs with ground including movement from the point of unloading to the point of erection	Set	354
110	b)	Assisting in Testing and Commissioning	Set	45
	25	Erection of Isolators		
111	a)	Assembly, Erection alignment and wiring including movement from the point of unloading to the point of erection. (Upright)	Set	736
112	b)	Assisting in Testing and Commissioning (Upright)	Set	75
		Note : 1) Assisting in testing and commissioning for item no. 13 to 18 means contractors should provide labourers for testing and commissioning by RT/MT/Firm engineers. 2) Testing & Commissioning in item 13 & 18 means the testing will be carried out by the firms themselves using their own testing equipments and staff in presence of the MRT staff who will witness the tests.		
	26	Erection of Lightning Arresters		
113		Erection of Lightning arrestors and wiring including movement from the point of unloading to the point of erection	Set	184
114	27	Fixing of Solid Core insulator	Per Stack	61
115	28	Test ing & Commissioning: Capacitor Bank with reactors	Each	15064
		Control Cables and U.G. Cables		

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	29	Formation of Cable Duct		
116	a)	Burnt brick/size stone/RCC Cable duct including form box, back filling the sides, removing the excess excavated soil, duct covering with RCC slabs.	cmt	As per KPWD SR applicable to respective area
117	b)	Supplying 300 mm dia 1.5" to 2" thick RCC Hume pipes including loading unloading, and transportation charges and laying at required level and gradient as per the direction of field engineer	Rmtr	As per KPWD SR applicable to respective area
	c)	Providing, laying and jointing PVC pipes conforming to IS 4085-1960, & 7634-1975, and approved makes with necessary specials such as collars, bends, Elbows, Tee, nipples, plugs with cuts and threads using jointing ring with solutions, wherever necessary as per the directions of the field Engineer including all lead and lift.		
118	i)	25 mm dia (outer) 2mm to 2.5mm thick	mtr	As per KPWD SR applicable to respective area
119	ii)	32 mm dia (outer) 2mm to 2.5mm thick	mtr	
120	ii)	63 mm dia (outer) 2mm to 2.5mm thick	mtr	
121	iv)	75 mm dia (outer) 2mm to 2.5mm thick	mtr	
122	v)	90 mm dia (outer) 2mm to 2.5mm thick	mtr	
123	vi)	110 mm dia (outer) 2mm to 2.5mm thick	mtr	
124	vii)	140 mm dia (outer) 2mm to 2.5mm thick	mtr	
125	vii)	160 mm dia (outer) 2mm to 2.5mm thick	mtr	
	d)	Supplying & Laying cable trays including welding fixing of supports		
126	i)	Cable tray of 600mm width (suitable for cable ducts of A,B & C type)	Rmtr	429
127	ii)	Cable tray of 300mm width (suitable for cable ducts of A,B & C type)	Rmtr	306
128	e)	Laying of control cables from equipments to control panels.	Rmtr	6
	30	Control Panels		
129	a)	Erection of control panels, auxiliary panels, carrier cabinets etc., alignment and fixing properly to foundation base including movement from the point of unloading to the point of erection.	Per Panel	2444
130	b)	Wiring & assisting in testing and commissioning of panels.	Per Panel	3819

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
131	C)	Test & Commissioning: i)C& R Panels Wiring & Testing: Wiring: Identification, Ferruling, Crimping, termination of wires in C&R panels. Testing: Testing for insulation level, Testing of relays, control operations for closing tripping etc., interlocks Alarm, Annunciation and Indication Checks.	Each	41848
	31	11 kV Switchgear		
	a)	Erection, alignment and fixing to the foundation, indoor/outdoor 11kV switchgear Panel/unit including movement from the point of unloading to the point of erection.		
132		i) 11kV Indoor/out door switchgear	Per panel	1471
133		ii) 11kV Kiosk	Per Panel	1224
134	b	Wiring & assisting in testing & Commissioning		
135		i) 11 kV indoor/ outdoor switchgear	Per Panel	488
136		ii) 11kV Kiosk	Per Panel	488
	c	Testing & Commissioning: Wiring: Identification of wires, Ferruling Crimping & Termination of wires for annunciation, etc., Testing of Relays, CTs, PTs, & Breaker for operation		
137	i)	For indoor/outdoor panel comprising of 2I+8F+1BC+1AP3	Per set	55802
138	ii)	For single 11kV panel indoor/outdoor type /Kiosk	No.	11160
139	iii)	For additional 11kV panel indoor	No.	5580
140	iv)	For each additional 11kV panel out door type/Kiosk	No.	8529
		Note: Assisting in testing & Commissioning for item 19,20 & 21 mean contractors should provide labourers for wiring & Commissioning by RT/MT/Firm Engineers.		
	32	Busbar Formation		
		Main bus/cross bus (all the three phases in a segment) of using Coyote-single/double conductors with fixing of insulator spacers, levelling of string conductors to the required height above the equipment, including providing jumps to interconnect different segments of the main bus.		
141	a)	Main Bus as above using Lynx/Coyote Conductor	Per Bay	2369

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
142	b)	Formation of cross bus in each individual bay using Lynx/Coyote - Single/Double conductor with fixing of insulators, spacers, levelling the strung conductors to the required height above the equipment including providing jumps to inter-connect different segments of the main bus.	Per Bay	4512
143	33	Faradays Cage Formation as per specification:	Per Bay	180
	34	Groundmat		
144	a)	Laying of M.S. Flats, welding, applying ACB paint to welded portion and covering with sodium bentonite clay	Rmtr	24
145	b)	Supplying and laying of MS flats, of various sizes, welding and applying ACB paint to welded portion and covering with sodium bentonite clay, as per the drawing/standard specifications and consolidation.	Rmtr	50x6mm - 233 50x8mm - 249 75x6mm - 432 75x8mm - 457 75x12mm - 484
146	c)	Same as above but without sodium bentonite clay	Rmtr	50x6mm - 115 50x8mm - 130 75x6mm - 314 75x8mm - 338 75x12mm- 367
147	d)	Grounding of equipment with various sizes, G.I. Flat and connecting Equipment to the earthmat/ground pit. Each point of earthing with all formation works like bending, twisting, drilling of holes and connecting by welding (inclusive of all T&P and consumables) to the earthmat/ ground pit/ point of earth connection,all the materials supplied by the contractor.	Per Point	50x6mm - 193 50x8mm - 215 75x6mm - 462 75x8mm - 488 75x12mm - 528
148	e)	Providing 25mm dia M.S.rod 1.05 Mtr. Long earthmat spikes including heating, bending top 50mm over lap flattening and making spike edge at one end driving into the earth below the ground level and welding the rod with ground mat flat.	Each	191
149	f)	Supplying & Providing 450 mm dia 450 mm height 1.5" to 2" thick hume pipe collar (non pressure type) for earth pits including all lead and lifts etc.,	Each	551
	35	Providing Deep Bore earthing		
		"Sinking bore of 150mm clear dia using fast rig including fixing of 40mm dia MS rod, including jointing the pipes as per KPTCL standard and providing sodium bentonite treatment in the annular space, including transportation of rig and other supporting vehicles etc., complete, as per the directions of engineer in charge, including cost of MS rod & sodium bentonite".		

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
150		a) Drilling 150mm dia bore	Rmtr	438
151		b) 40 mm dia MS rod	Rmtr	346
152		c) Bentonite Clay	Kgs	11
153		d) Cost of GI flat for joining two rods by welding to obtain continuous length	Per Joint	420
	36	Spreading of Jelly		
		Supplying and spreading 100mm thick with 20/25mm jelly with all lead and lifts.		
154		i) 20/25 mm Jelly	cmt	925
		Note : Only 20/25mm jelly shall be used.		
	37	Station Yard Lightning		
155		a) Supplying and erection of fabricated supporting structures including foundation.	Per set	As per Latest KPWD electrical SR applicable to respective areas.
156		b) Supplying and fixing of Sodium Vapour lamp fittings of 250 watts.	Per fitting	As per Latest KPWD electrical SR applicable to respective areas.
157		c) Supplying and laying of 1.1KV, 6 Sqmm PVC cable or any other specified size, testing and commissioning of yard lights.	Rmtr	As per Latest KPWD electrical SR applicable to respective areas.
158		d) Erection of RCC poles with stringing of O.H. conductor/Laying of cable for yard lights.	Rates for different items as per part 2 & 3 SR to be applied	Furnished in 11kV Works
	38	Painting of structures	Material+Labour	Material+Labour
159		a) Supplying and painting of two coats of good quality Red Oxide primer after cleaning and scrapping the surface.	Sqmtr	49
160		b) As above with 2 coats of good quality Aluminium paint after 2 coats of good quality Red Oxide primer.	Sqmtr	85
161		c) Supplying and painting two coats of aluminium paint after cleaning and scraping the surface without applying Red Oxide primer	Sqmtr	44
162		d) As per (b) but with synthetic enamel paint	Sqmtr	97

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
163		e) Supplying and painting two coats of Synthetic enamel paint after cleaning and scraping the surface without applying red oxide primer.	Sqmtr	49
	39	Battery Set and charger		
	a)	Installing, assembling, filling of acid, wiring, assisting, test-charging and discharging Battery set.		
164	i)	110 Volts	Set	6111
165	ii)	48/24 Volts	Set	2447
166	b)	Erection of Battery Charger and wiring		
167	i)	110 Volts	Set	976
168	ii)	48/24 Volts	Set	976
	c)	Testing & Commissioning of Battery Charger: Wiring: Identification, Ferruling, Crimping & connecting i) AC Supply cable upto 2 sources ii) Load cables, connection at charger end upto 10 load points Testing: i) AC supply Voltage Phase Sequence. ii) Testing of Output DC Voltages in Boost/Float/Trickle/Variations as per the order/requirement . iii) Testing for Ripple Factor. Commissioning: i) Fixing of Boost Voltage level ii) Fixing of Float Voltage level iii) Fixing of Trickle Voltage level iv) Testing of alarm, indication and load ckts, Auto /Manual change overs etc. v) Full load test in Boost & Trickle modes.		
169	i)	110V DC: (1 set for 33kV Stations)	Per set	21300
	40	Fencing :		
		Colony and Station yard Boundary fencing including erection of supports		
170		a) Security fencing using 8SWG chainlink/50mm Mesh	As per KPWD SR applicable to respective	As per KPWD SR applicable to respective area
171		b) Barbed wire fencing		
	41	PLCC Equipments		
172	a)	Erection of mounting structures for coupling capacitors	Set	4347
173	b)	Erection of Coupling capacitors/wave traps/LMU.	Set	1634
174	c)	Wiring , testing and commissioning	Set	486

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
	42	Yard Levelling		
175		Yard Levelling and filling up of soil and consolidation.	cmt	As per KPWD SR applicable to respective area
	43	Watch and Ward		
176		Emoluments for watch and ward including pay and DA for 8 hours duty	Per Shift	171
	44	Transportation		
		Transportation of Transformer, CT's, PT's, Breakers, C&R Panels, 11KV Switchgears and EHT LA's only.		
	a)	Using 10 MT Lorry		
177		i) 1 to 50 KMs		Rs46/- per KM, subject to a Min. of Rs.10000/-
178		ii) 51 to 100 KMs		Min + Rs36/- per KM
179		iii) 101 to 150 KMs		Min + Rs27/- per KM
180		iv) Beyond 150 KMs		Min + Rs.17/- per KM
	b)	Using 10 MT Truck & Trailor		
181		i) 1 to 50 KMs		Rs.46/- per KM, subject to a Min. of Rs. 20000/--
182		ii) 51 to 100 KMs		Min + Rs 36/- per KM
183		iii) 101 to 150 KMs		Min + Rs27/- per KM
184		iv) Beyond 150 KMs		Min + Rs17- per KM
	c)	Using 11 to 20 MT Truck & Trailor.		
185		i) 1 to 50 KMs		Rs.365/- per KM, subject to a Min. of Rs. 25000/-
186		ii) 51 to 100 KMs		Min + Rs 318 /- per KM
187		iii) 101 to 150 KMs		Min + Rs172/- per KM
188		iv) Beyond 150 KMs		Min + Rs154/- per KM
189		Mobilisation charges of IDLE Transportation applicable for places where heavy duty trucks are not available, is admissible in addition to (a) as far as possible full load shall be transported.		21

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
190		b) Transportation of other materials		25% of the above
191		c) Using light vehicle including fuel, oil, lubricants and crew subject to a minimum of 100 Kms per day in case of break down/ subject to prior approval of CEE.	Per Day	Prevailing Board approved Rates
	45	Loading and Unloading		
192		a) Loading of Power Trs, CT's, PT's Breakers, C&R Panels, 11KV Switchgears, wavetrap, coupling capacitors, HT UG Cables, Insulators, ACSR Conductor, Ground Conductors, etc.,	MT	1291
193		b) Unloading of power Transformers, CT's PT's Breakers, C&R Panels, 11 KV Switchgears, Wavetrap, coupling capacitors, HT UG Cables, Insulators, ACSR conductor, Ground conductors, etc.,	MT	1291
194		c) Loading of other materials like structural steel, building materials etc.,	MT	229
195		d) Unloading of other materials like structural steel, building materials etc.,	MT	229
	46	Benching, Revetment and Pitching		
196		Providing granite rough stone 30 to 50 cms thick dry packing of revetments and pitching side slopes of quadrant including providing the walls, jelly packing, 0.15 cms thick and wedging etc., Complete including cost of conveyance of all materials.	Cmt	As per KPWD SR applicable to respective area
	47	Labour for 33KV lines using 9/9.5 Mtrs Long RCC Poles		
197		a) Erection of 9/9.5 Mtrs RCC Poles 300 Kg working load, in the excavated pit as per the approved drawing specification (excluding the cost of excavation, backfilling and concreting) Note: The rates of excavation, Backfilling and concreting are to be adopted as noted in SL nos 1.3 to 1.8 of 11KV system respectively.	Nos.	As provisioned in 11kV works.
198		b) Erection of DP structure including fixing of braces insulators etc., as per the approved drawings and specifications (excluding the cost of excavation, backfilling and concreting). Note: The rates of excavation, Backfilling and concreting are to be adopted as noted under 1.3 to 1.8 of 11KV system respectively.	Set	1553

Sl.No.	Item No.	Description	Unit	COMMON SR RATES 2012-13 (Labour Charges)
199		c) Fixing of V-Shape cross arms, single top supports and insulators.	Set	68
200		d) Fixing of spiral earth electrodes	Nos.	25
201		e) Road/P&T Guarding	Set	672
202		f) Stringing Rabbit conductor, fixing disc insulator to cross arms etc.,	KM	1622
203		g) Stringing Coyote conductor, fixing disc insulator to cross arms etc.,	KM	2607
204		h) supplying and fixing of AC devices as per specification	RMtr	As provisioned in 11kV works
	48	Dismantling		
205		i) Dismantling of Power Transformer		Same rate as that of erection of Power Transformer
206		ii Dismantling charges for concrete with steel reinforcement	Cmt	566
207		iii) Dismantling of concrete only	Cmt	276
208		iv) Dismantling charges in all other cases		75% of erection charges in general

Schedule of Rates for COMMON SR 2012-13 **for 33kV Materials**

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
1	1.1	5 MVA, 33/11 kV Transformer with all fittings and accessories, OLTC, RTCC, First filling of oil and 10 % Spare oil	No.	4129300
2	1.2	10 MVA, 33/11 kV Transformer with all fittings and accessories, OLTC, RTCC, First filling of oil and 10 % Spare oil	No.	9235300
	2	Circuit Breakers		
3	2.1	33 kV Circuit Breaker SF6 type 800A, 25kA	No.	326940
	3	11kV Switch Gear		
4	3.1	11KV 500MVA (1600A, for two incomer & two capacitor bank and 1250A for eight feeders) indoor type switchgear comprising 2IC+10F+1BC+2AP VCB's all of 25KA rupturing capacity as per technical specification	Set	7123629
5	3.2	11KV 500MVA (1600A, for one incomer & one capacitor bank and 1250A for four feeders) indoor type switchgear comprising 1IC+5F+1BC+1AP VCB's all of 25KA rupturing capacity as per technical specification	Set	3760685
6	3.3	11 kV, 500 MVA, (1600A, for incomer & 1250 A for feeder) outdoor Switch gear, comprising of 2I+1BC+12 f + 1 AP3 VCBs	Set	7918842
7	3.4	11 kV, 500 MVA, (1600A, for incomer & 1250 A for feeder) outdoor Switch gear, comprising of 2I+1BC+10 f + 1 AP3 VCBs	Set	6894963
8	3.5	11 KV, 500 MVA, 1250 A, (I/C) and 800 A (feeder), outdoor Switch Gear, comprising of 2I+1BC+8F+1AP3 VCBs	Set	5803156
9	3.6	11 kV Switch gear, 350 MVA, 800 Amps Outdoor MCVCB comprising of 1 I + 5 f + 1 AP3	Set	3174149
10	3.7	11 KV 500 MVA 1250 Amps 25 KA feeder panel	No.	528802
11	3.8	11 KV 500 MVA 1250 Amps SWG 11+5F+1AP3 MCVCB	Set	3227925
	4	11kV Kiosk		
12	4.1	11 kV 350 MVA, 800A Outdoor Type, kiosk comprising of 1 I + 4 f + 1 AP3 PCVCB	Set	2012000
13	4.2	11 kV, 350 MVA, 800A Outdoor type, kiosk PCVCB	No.	297000

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	5	Instrument Transformers		
	5.1	Current Transformers		
14	5.1.1	220kV CT's	No.	269490
15	5.1.2	110 kV 0.2 class accuracy CT with all accessories for metering purpose		
16		a. CT ratio 100-75-1A	No.	102917
17		b. CT ratio 100-50-75-5A	No.	103590
18		c. CT ratio 100-5A	No.	102920
19	5.1.3	33 kV class CT With 0.2 accuracy class 400 - 200/1-1A for lines	No.	25960
20	5.1.4	33 kV class CT With 0.2 accuracy class 200 - 100/1-1-1A for Transformer	No.	25960
21	5.1.5	33 kV class CT 30/5A	No.	16230
22	5.1.6	11kV NCTs 800-400/1-1-1A (for 350 MVA SWG)	No.	16230
23	5.1.7	11kV NCTs 600-300/1-1-1A (for PCVCBs)	No.	16230
	6	Potential Transformers		
24	6.1	220kV PT's	No	607520
25	6.2	110 KV 0.2 class accuracy PT with all accessories for metering purpose	Nos.	137000
26	6.3	33kV Voltage Transformer 33kV $\sqrt{3}$ 110 $\sqrt{3}$ - 110 $\sqrt{3}$	No.	34650
27	6.4	11kV Voltage Transformer 11kV / 110V-110V	No.	7780
	7	Lightning Arrester		
28	7.1	a) 30 kV Lightning Arrester Normal Duty Metal oxide (Discharge Class-2)	No.	11050
29	7.2	b) 30 kV Lightning Arrester Normal Duty Metal oxide (Discharge Class-3)	No.	7940
30	7.3	30 kV Lightning Arrester Normal Duty polymeric	No.	10030
	8	Isolators		
31	8.1	Isolators 33kV 800A, 25kA Upright with Earth Switch complete metallic portion with insulator	Set	73300
32	8.2	Isolators 33kV 800A, 25kA Upright without Earth Switch complete metallic portion with insulator (live point height 3750mm)	Set	68260
33	8.3	Isolators 33kV 800A, 25kA Upright without Earth Switch complete metallic portion with insulator (live point height 4750mm)	Set	73320

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	9	Battery Set/ Battery Charger		
34	9.1	Battery Set (Tubular) 48 V, 100 Ah	Set	75600
35	9.2	Battery Set (Tubular) 110 V, 100 Ah	Set	165600
36	9.3	Battery Set (Maintenance free VRLA) 48 V, 100 Ah	Set	38400
37	9.4	Battery Set (Maintenance free VRLA) 110 V, 100 Ah	Set	82800
38	9.5	Battery Charger 48 V, 100 Ah	Set	39700
39	9.6	Battery Charger 110V, 100 Ah (with float cum boost charger working on 230V 1ph AC supply along with integral DCDB consisting 4 nos. O/G feeders as per specifications)	Set	74200
40	9.7	Capacitor Bank with 0.2% Series reactor & NCT 12.1kV 2.5 MVAR star connected Capacitor Bank	Set	403200
	10	Panel		
41	10.1	33 kV Line Panel (Simplex)	No.	402800
42	10.2	33/11kV Transformer Panel (Simplex)	No.	584000
43	10.3	33 kV Capacitor Bank Panel	No.	321900
	11	Towers		
44	11.1	a) Design, fabrication, galvanizing and supply of transmission line tower materials including stubs	M.T.	98450
45	11.2	b) Fabrication, galvanization and supply of mild steel tower materials	M.T.	83664
46	11.3	c) Supply of galvanised Bolts & Nuts	M.T.	98450
47	11.4	d) Supply of stub templates	M.T.	98450
	12	Outdoor type meter box to house ETV meters, made of CRCA steel mounted on angle iron frame work		
48	12.1	Meter box suitable for fixing 6 ETV meters	No.	13973
49	12.2	Meter box suitable for fixing 4 ETV meters	No.	8541
50	12.3	Meter box suitable for fixing 3 ETV meters	No.	5979
	13	Insulators		
51	13.4	Solid Core Insulator 33kV	No.	2894
52	13.2	33 kV Pin Insulator (Shell only)	No.	388
53	13.3	33 kV Pin Insulator (Pin only)	No.	155
54	13.4	33kV Composite Disc Insulator	No.	647

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	14	HARDWARE CLAMPS FOR STATION MATERIALS		
55	14.1	Bolted Type Tension Clamp		
56	14.1.1	Single Lynx ACSR conductor 70/90 kN 16mm	No.	963
57	14.1.2	Single Coyote ACSR conductor 70/90 kN 16mm	No.	866
58	14.1.3	Single Rabbit ACSR conductor 70/90 kN 16mm	No.	662
	14.2	Bolted Type Suspension Clamp		
59	14.2.1	Single Lynx ACSR conductor 70/90 kN 16mm	No.	758
60	14.2.2	Single Coyote ACSR conductor 70/90 kN 16mm	No.	686
61	14.2.3	Single Rabbit ACSR conductor 70/90 kN 16mm	No.	541
	14.3	Ground Wire Clamp 7/3.15mm 2 bolt	No.	686
	14.4	Post Insulator Clamp		
62	14.4.1	Single Lynx ACSR conductor 127/76mm	No.	566
63	14.4.2	Single Coyote ACSR conductor 127/76mm	No.	517
64	14.4.3	Single Rabbit ACSR conductor 76mm	No.	481
	14.5	"T" Clamp for ACSR Conductor		
65	14.5.1	Single Lynx to Single Lynx	No.	325
66	14.5.2	Single Coyote to Single Coyote	No.	301
	14.6	Terminal connector clamp for ACSR Conductor		
67	14.6.1	Single Lynx	No.	511
68	14.6.2	Single Coyote	No.	439
	15	STATION STRUCTURES		
69	15.1	Fabrication, galvanization and supply of Station Structures	MT	136208
70	15.2	Supply of galvanized Bolts & Nuts	MT	123931
71	15.3	Double pole structure for 33kV	Set	5515
72	15.4	V-Shape X arm for 33 kV	No.	823
73	15.5	HT ST Support for 33 kV	No.	343
74	15.6	Clamp 9.5M RCC Pole for 33kV	No.	93

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	16	33 kV 3 Core XLPE UG Insulated Aluminium Cable		
75	16.1	33 kV 3 Core XLPE UG Cable- 95 Sq.mm	km	2102240
76	16.2	33 kV 3 Core XLPE UG Cable- 150 Sq.mm	km	2470100
77	16.3	33 kV 3 Core XLPE UG Cable-240Sq.mm	km	2720400
78	16.4	33 kV 3 Core XLPE UG Cable-300Sq.mm	km	3621840
79	16.5	33 kV 3 Core XLPE UG Cable-400Sq.mm	km	4185000
	17	33kV Jointing and Cable termination kits for XLPE cable		
	17.1	Heat Shrinkable type transition jointing kit		
80	17.1.1	33 kV 3 Core XLPE UG Cable- 95 Sq.mm	No.	23100
81	17.1.2	33 kV 3 Core XLPE UG Cable- 150 Sq.mm	No.	23100
82	17.1.3	33 kV 3 Core XLPE UG Cable-240Sq.mm	No.	34060
83	17.1.4	33 kV 3 Core XLPE UG Cable-300Sq.mm	No.	34060
84	17.1.5	33 kV 3 Core XLPE UG Cable-400Sq.mm	No.	39500
	17.2	Heat Shrinkable indoor type cable termination kit		
85	17.2.1	33 kV 3 Core XLPE UG Cable- 95 Sq.mm	No.	5840
86	17.2.2	33 kV 3 Core XLPE UG Cable- 150 Sq.mm	No.	5840
87	17.2.3	33 kV 3 Core XLPE UG Cable-240Sq.mm	No.	7990
88	17.2.4	33 kV 3 Core XLPE UG Cable-300Sq.mm	No.	7990
89	17.2.5	33 kV 3 Core XLPE UG Cable-400Sq.mm	No.	8740
	17.3	Heat Shrinkable outdoor type cable termination kit		
90	17.3.1	33 kV 3 Core XLPE UG Cable- 95 Sq.mm	No.	7255
91	17.3.2	33 kV 3 Core XLPE UG Cable- 150 Sq.mm	No.	7255
92	17.3.3	33 kV 3 Core XLPE UG Cable-240Sq.mm	No.	9030
93	17.3.4	33 kV 3 Core XLPE UG Cable-300Sq.mm	No.	9030
94	17.3.5	33 kV 3 Core XLPE UG Cable-400Sq.mm	No.	10730

Sl. No.	Item No.	Materials	UoM	COMMON SR RATES 2012-13 in Rs. FORD Rates inclusive of duties taxes & F&I
	17.4	Heat Shrinkable Straight through jointing kits with Aluminum lugs& ferrules		
95	17.4.1	33 kV 3 Core XLPE UG Cable- 95 Sq.mm	No.	18920
96	17.4.2	33 kV 3 Core XLPE UG Cable- 150 Sq.mm	No.	18920
97	17.4.3	33 kV 3 Core XLPE UG Cable-240Sq.mm	No.	25320
98	17.4.4	33 kV 3 Core XLPE UG Cable-300Sq.mm	No.	25320
98	17.4.5	33 kV 3 Core XLPE UG Cable-400Sq.mm	No.	30160

COST DATA SHEET - 47

Estimate for carrying out 1 to 2 three poles works in respect of Ganga Kalyana and Drinking Water Supply Works only					
(Not applicable for any other type of work)					
SL. No	Particulars	Unit	Qty	Consolidated Amount in Rs.	
	PART A (Materials)				
1	Material cost Estimate shall be prepared as per site requirement				
	PART-B (Labour)				
2	Consolidated labour charges involving 1 to 2 pole works for Ganga Kalyana and Drinking Water supply works only.	Nos	1	6250	
	Note:-				
1	The labour charges includes all works such as digging of pits, Errection of Poles, Fixing of Cross Arms, insulators, Stringing of wire, providing guy sets.				
2	No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.				
3	Estimates coverig more than 2 pole works shall not split to bring them into this catageory.				
4	Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges				

COST DATA SHEET - 48

Estimate for carrying out 3 to 5 three poles works in respect of Ganga Kalyana and Drinking Water Supply Works only					
(Not applicable for any other type of work)					
SL. No	Paritculars	Unit	Qty	Consolidated Amount in Rs.	
	PART A (Materails)				
1	Material cost Estimate shall be prepared as per site requirement				
	PART-B (Labour)				
2	Consolidated labour charges involving 3 to 5 pole works for Ganga Kalyana and Drinking Water supply works only.	Nos	1	9875	
	Note:-				
1	The labour charges includes all works such as digging of pits, Errection of Poles, Fixing of Cross Arms, insulators, Stringing of wire, providing guy sets.				
2	No other labour charges or any other charges towards special locality allowance LC Charges, additional labour charges, transportation charges etc., are payable.				
3	Estimates coverig more than 3 pole works shall not split to bring them into this catageory.				
4	Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges				

**A. Typical Cost Data Sheet for preparation of estimates on
LABOUR CONTRACT**

Sl. No.	Particulars	Amount (in Rs.)
1	Materials Cost	
2	Labour Charges	
3	Special Locality Allowance @% on labour charges on Sl. No. 2 above (applicable for areas mentioned in page no. Part-6)	
4	Break Down Charges at 25% on labour for speedy restoration of power on Sl. No. 2 as above. (To be incorporated after competent approval).	
5	Additional labour charges at 10% on Sl. No. (2) for working on Hazardous installations. (To be incorporated after competent approval).	
6	Service Tax @ 12.36.% on Total labour charges.	
7	Contribution towards employees provident fund charge @ 13.61% & ESI @ 4.75% (wherever applicable) on Total labour charges	
8	**Transportation cost from stores to site (wherever applicable at 2 % on material cost)	
9	*Contingencies @ 2% on Total material & labour	
10.	Employees cost @ 20% on total labour Charges (2+3+4+5)	
11	Statutory charges as per actuals (Inspectorate charges, civic body charges etc.,)	
12	Compensation cost for tree cutting etc., as per approved norms.	
13	Total Cost of Estimate in Rs.	

Note:-

- 1) All the materials required for execution of works are included in the cost data sheet. The contingency at 2% provisioned is only to take care of unforeseen material and labour and when applicable shall be paid after the specific approval of the Executive Engineer by way of issue of an O.M.
- 2) **This is to cover the admissible transportation charges, Labour for loading and unloading and for carrying the materials by head load, which shall be paid as per actuals.
- 4) It shall not be construed that all the above amounts mentioned in the estimates has to be paid to the contractor. The payment shall be arranged as per actuals.**
- 5) The LEC's carrying out works on labour contract basis are authorized to purchase small items other than poles, Conductors, Transformers, Lightning Arrestors H.T. Insulators, Meters and GOS at SR rates wherever the execution of the work is held up due to non availability of such materials provided the cost of such purchase is limited to 10% of the total estimate cost and after the specific approval of the Executive Engineer by the way of an OM.

**B. Typical Cost Data Sheet for preparation of Estimates for
TOTAL TURNKEY**

Sl. No.	Particulars	Amount in Rs.
1	Materials cost	
2	Labour charges	
3	Service Tax @ %on Total labour charges.	
4	Contribution towards employees provident fund charge @ 13.61% & ESI @ 4.75% (wherever applicable) on Total labour charges	
5	Transportation cost from stores to site @ 2% on material cost	
6	Contingencies @ 2% on material + labour cost	
7	Watch and ward cost @ 1% on material cost	
8	Insurance cost against theft & accident @ 1% on material cost	
9	Performance guarantee and loss of interest on margin money for BG @ 2.5% of the value of BG	
10	Statutory charges as per actual (Inspectorate charges, civic body charges etc.,)	
11	Compensation cost for tree cutting etc., as per approved norms	
12	Total Cost in Rs.	

Note:-

- 1) While preparing the estimate provision has to be made specifically for the conductor accessories such as Wedge/ PG clamps, Alkathene Tube, etc., duly assessing the quantity.
- 2) The contingency at 2% provisioned is only to take care of unforeseen material and labour. This has to be paid only for any additional work carried out and as per actual.
- 3) The materials to be procured by the agency shall conform to ESCOM's specifications and got inspected before execution of work. The material shall be procured by the agencies from the approved vendors.

**C. Typical Cost Data Sheet for preparation of Estimates for
PARTIAL TURNKEY**

Sl. No.	Particulars	Amount in Rs.
1	Materials cost a. ESCOM's portion b. Agency portion	
2	Labour charges	
3	Service Tax @ %on Total labour charges.	
4	Contribution towards employees provident fund charge @ 13.61% & ESI @ 4.75% (wherever applicable) on Total labour charges	
5	Transportation cost from stores to site @ 2% on material cost	
6	Contingencies @ 2% on material + labour cost	
7	Watch and ward cost @ 1% on material cost	
8	Insurance cost against theft & accident @ 1% on material cost	
9	Performance guarantee and loss of interest on margin money of BG @ 2.5% of the value of BG	
10	Statutory charges as per actuals (Inspectorate charges, civic body charges etc.,)	
11	Compensation cost for tree cutting etc., as per approved norms	
12	Total Cost in Rs.	

Note:

- 1) While preparing the estimate provision has to be made specifically for the conductor accessories such as Wedge/ PG clamps, Alkathene Tube, etc., duly assessing the quantity.
- 2) The contingency at 2% provisioned is only to take care of unforeseen material and labour and is not payable to the contractor at 2% but payable at actuals.
- 3) The materials to be procured by the agency shall conform to ESCOM's specifications and got inspected before execution of work. The material shall be procured by the agencies from the approved vendors.

**D. Typical Cost Data Sheet for preparation of estimates on
Deposit Contribution work**

Sl. No.	Particulars	Amount (in Rs.)
1	Materials Cost	
2	Labour Charges	
3	Locality allowance at % on labour charges (applicable for areas mentioned in page No. Part-6)	
4	Service Tax @ 12.36% on Total labour charges.	
5	Contribution towards employees provident fund charge @ 13.61% & ESI @ 4.75% (wherever applicable) on Total labour charges	
6	Transportation cost from stores to site @ 2% on material cost wherever applicable	
7	% *Contingencies @ 2% on Total material & labour	
8	Employees cost @ 20% on total material + labour Charges (1+2+3)	
9	Statutory charges such as Road cutting charges payable to BBMP or local authorities as per actuals	
10	Government electrical inspectorate charges as per actuals	
11	Compensation cost for tree cutting etc., as per approved norms	
12	Total Cost of Estimate in Rs.	

Note:

- 1) The estimate is only provisional.
- 2) The final cost of the work shall be worked out after completion of the work and difference amount has to be collected from the applicant before commissioning.

**E. Typical Cost Data Sheet for preparation of estimates on
Self execution work**

Sl. No.	Particulars	Amount (in Rs.)
1	Materials Cost	
2	Labour Charges	
3	Locality Allowance @% on Labour Charges (Applicable for areas mentioned in Page No. Part-6)	
4	*Contingencies @ 2% on Total material & labour	
5	Employees cost @ 10% on total labour Charges (2+3)	
6	Statutory charges such as Road cutting charges payable to BBMP or local authorities as per actuals.	
7	Government electrical inspectorate charges as per actuals.	
8	Compensation cost for tree cutting etc., as per approved norms	
9.	Total Cost of Estimate in Rs.	

Note:- Supervision charges shall be collected at 10% on all the items from 1 to 4 .

- 1) All the materials required for execution of works have to be arranged by the agencies.
- 2) No material shall be supplied by ESCOMs.
- 3) The materials shall conform to ESCOMs specifications and shall be got inspected before execution of work. The material shall be procured by the agencies from the BESCO approved vendors. Bills and Test Certificate in respect of the materials procured shall be furnished to BESCO (Please see circular No. BESCO/BC-20/F-1111/2008-09/Dated 24.06.2010).

**F. Typical Cost Data Sheet for preparation of Estimates for
TOTAL TURNKEY (33kV System)**

Sl. No.	Particulars	Amount in Rs.
1	Materials cost	
2	Labour charges	
3	Civil Engineering Charges	
4	Locality Allowance @% on Labour Charges + 30% of Civil Engineering Charges (Applicable for areas mentioned in Page No. Part-6)	
5	Total Material Cost = Material cost + 70% of civil Engineering Charges.	
6	Total Labour Charges = Labour charges + 30% Civil Engineering charges + locality allowance.	
7	Employees cost at 20% of the labour charges.	
8	Service Tax @ %on Total labour charges.	
9	Work Contract Tax @ 12.5% on 70% of Civil Engineering Charges.	
10	Contribution towards Employee Provident Fund Charges & ESI @ 4.75% (wherever applicable) on Total labour charges at 13.61%	
11	Transportation cost from stores to site @ 2% on material cost	
12	Contingencies @ 2% on material + labour cost	
13	Watch and ward cost @ 1% on material cost	
14	Insurance cost against theft & accident @ 1% on material cost	
15	Performance guarantee and loss of interest on margin money for BG @ 2.5% of the value of BG [Value of the BG = Sum of item Nos. (5) to (14)]	
16	CESS at the rate of 1% on the cost of construction.	
17	Statutory charges as per actual (Inspectorate charges, civic body charges etc.,)	
18	Compensation cost for tree cutting etc., as per approved norms	
19	Total Cost in Rs. (Sum of item N. (5) to (18))	

Note:-

- 1) While preparing the estimate provision has to be made specifically for the conductor accessories such as Wedge/ PG clamps, Alkathene Tube, etc., duly assessing the quantity.
- 2) The contingency at 2% provisioned is only to take care of unforeseen material and labour. This has to be paid only for any additional work carried out and as per actual.
- 3) The materials to be procured by the agency shall conform to ESCOMs specifications and got inspected before execution of work. The material shall be procured by the agencies from the approved vendors.

ABSTRACT OF COMMON 2012-13 COST DATA SHEETS

Cost Data Sheet No.	PARTICULARS	Unit	Total cost of Estimate (In Rs.)	Labour Charges only casual (In Rs.)
			Material + Labour (Both casual and Regular)	Labour
1	11 kV 3-Ph SC line with 40 mtrs span on 9 mtr supports using Rabbit conductor	Km	307489	32590
2	11 kV 3-Ph SC line with 50 mtrs span on 9 mtr supports using Rabbit conductor	Km	276457	27855
3	11 kV 3-Ph SC line with 50 mtrs span on 8 mtr supports using Rabbit conductor	Km	250406	24874
4	11 kV 3-Ph SC line with 40 mtrs span on 9 mtr supports using coyote conductor	Km	513972	38337
5	11 kV 3 Ph. SC Line and 3 phase - 4 wire LT line on 9.0 mtr supports with an average span of 50mtrs using Rabbit Conductor for H.T. and WEASEL for L.T Lines	Km	468130	48802
6	11 kV 3 Ph. SC Line and 3 phase - 4 wire LT line on 9.0 mtr supports with an average span of 40 mtrs using Rabbit Conductor for H.T. and L.T Lines	Km	561176	51234
7	3 Ph. 4 wire LT line on 8 mtr supports with 60 mtrs span using Rabbit Conductor (IP Set installations)	Km	187810	20573
8	3 Ph. 4 wire LT line on 8 mtr Supports with 40 mtrs span using Rabbit Conductor	Km	282910	27653
9	3 Ph. 4 wire LT line on 9 mtr Supports with 40 mtrs span using Rabbit Conductor	Km	312835	31378
10	3 Ph. 5 wire LT line on 9.0 mtr supports Using Rabbit conductor with a span of 40mtrs (For Cities, Towns and Residential layouts)	Km	369471	37791
11	3 Ph. 5 wire LT line with 8.0 mtr Supports Using Rabbit conductor with a span of 50 mtrs	Km	311867	29260
12	3 Ph. 5 wire LT line with 8.0 mtr Supports Using Weasel with a span of 40 mtrs	Km	191179	22588
13	L.T 3 Ph. 5 wire LT line with continuous earth wire on 9.0 mtr supports using RABBIT for phase, neutral and street light control and 8 SWG G.I. wire for continuous ground wire with 40 mtrs span in vertical configuration	Km	390462	39757
14	11 kV 3 ph. SC line on 9 mtr supports using Rabbit conductor with 40 mtrs span with vertical configuration in congested area	Km	320039	39263

Cost Data Sheet No.	PARTICULARS	Unit	Total cost of Estimate (In Rs.)	Labour Charges only casual (In Rs.)
			Material + Labour (Both casual and Regular)	Labour
15	Providing 2 pole structure at the tapping point using RCC pole			
	a) 8 mtr RCC	Per unit	47321	3900
	b) 9 mtr RCC	Per unit	50449	3798
16	Providing 3 Pole Structure using 9 Mtrs RCC Poles	Per unit	42773	5430
17	Providing Metering to IP Set installations using SMC Box	Nos	8187	700
18	Laying of 1km length of 11kV 3 core 95 Sq.mm XLPE UG Cable using Horizontal drilling method	Km	1352081	137977
19	Laying of 1km length of 11kV 3 core 95 Sq.mm XLPE UG Cable using Conventional laying involving excavation of soil	Km	850406	146957
20	Laying of 1km length of 11kV 3 core 240 Sq.mm XLPE UG Cable using Horizontal drilling method	Km	1837822	689958
21	Laying of 1km length of 11kV 3 core 240 Sq.mm XLPE UG Cable using Conventional laying involving excavation of soil	Km	1307822	148365
22	Laying of 1km length of 11kV 3 core 400 Sq.mm XLPE UG Cable using Horizontal drilling method	Km	2367879	690028
23	Laying of 1km length of 11kV 3 core 400 Sq.mm XLPE UG Cable using Conventional laying involving excavation of soil	Km	1869462	149772
	a) Erection of 3-ph, 11 kV/433V Distribution Transformer center using 8 Mtrs. DPTs. (for conventional Transformers).			
24	i) 25 kVA	Per unit	111299	7006
25	ii) 63 kVA	Per unit	145478	7311
26	iii) 100 kVA (with Distribution Box)	Per unit	189949	8348
	iv) 100kVA (with LT protection kit)	Per unit	179006	8316
27	v) 250 kVA	Per unit	336918	9092
	b) Erection of 3-ph, 11 kV/433V Distribution Transformer center using 9mtr DPTs (For conventional Transformers)			
24	i) 25 kVA	Per unit	114773	7396
25	ii) 63 kVA	Per unit	148952	7701
26	iii) 100 kVA (with Distribution Box)	Per unit	193310	8644
	iv) 100kVA (with LT protection kit)	Per unit	182367	8612

Cost Data Sheet No.	PARTICULARS	Unit	Total cost of Estimate (In Rs.)	Labour Charges only casual (In Rs.)
			Material + Labour (Both casual and Regular)	Labour
27	v) 250 kVA	Per unit	189949	8348
	b) Erection of 3-ph, 11 kV/433V Distribution Transformer center using 8mtr DPTs (For BEE Star Rated Transformers)			
28	i) 25 kVA	Per unit	142523	7012
29	ii) 63 kVA	Per unit	188570	7399
30	iii) 100 kVA (with Distribution Box)	Per unit	270867	8213
	iv) 100kVA (with LT protection kit)	Per unit	259924	8181
	b) Erection of 3-ph, 11 kV/433V Distribution Transformer center using 9mtr DPTs (For BEE Star Rated Transformers)			
28	i) 25 kVA	Per unit	145997	7404
29	ii) 63 kVA	Per unit	192044	7789
30	iii) 100 kVA (with Distribution Box)	Per unit	274228	8509
	iv) 100kVA (with LT protection kit)	Per unit	263285	8477
31	Erection of 25 kVA , 11kV/433V , Single pole mounted transformer centre on 9mtr RCC pole Square section	Per unit	103197	5707
32	Erection of 63 kVA , 11kV/433V , Single pole mounted transformer centre on pmtr RCC pole Square section	Per unit	139890	6000
33	Erection of 100 kVA , 11kV/433V , Single pole mounted transformer centre on 9mtr RCC pole Square section			
	a) With LT Distribution Box	Per unit	177253	6209
	b) With LT Protection Kit	Per unit	166310	6177
34	Erection of 250 kVA, 11kV/433V, Single pole mounted Distribution Transformer on 11mtrs spun pole with 3 GOS system	Per unit	399602	9937
35	Providing Compact RMU 11kV class VCB/SF6 Type (1 Incomer+2 Breakers+1 Outgoing)			
a	Schenider Make	Per unit	963785	8205
b	ABB Make	Per unit	951843	8478
c	Seimens Make	Per unit	954394	8384
d	MEI	Per unit	940411	8798
36	Providing Compact RMU 11kV class VCB/SF6 Type (1 Incomer+1Breakers+1 Outgoing)			
a	Schenider Make	Per unit	577375	6120
b	ABB Make	Per unit	568835	6359
c	Seimens Make	Per unit	571040	6292
d	MEI	Per unit	560586	6607

Cost Data Sheet No.	PARTICULARS	Unit	Total cost of Estimate (In Rs.)	Labour Charges only casual (In Rs.)
			Material + Labour (Both casual and Regular)	Labour
37	Providing Compact RMU 11kV class VCB/SF6 Type (1 OD)			
a	Schenider Make	Per unit	167552	2084
b	ABB Make	Per unit	163831	2119
c	Seimens Make	Per unit	164496	2092
d	MEI	Per unit	160967	2192
38	Providing Compact RMU 11kV class VCB/SF6 Type (1VL)			
a	Schenider Make	Per unit	322341	2084
b	ABB Make	Per unit	318620	2119
c	Seimens Make	Per unit	319285	2092
d	MEI	Per unit	315756	2192
39	Running Single Circuit 11 kV 3 Phase Power line on 9 mtr RCC supports with average span of 30 mtrs using 3x95 Sqmm+1x70Sqmm Aerial Bunched Cables (ABC)	Km	1044624	115393
40	Running Single Circuit 1.1 kV 3 Phase 5 wire Power line on 9 mtr RCC supports with average span of 40 mtrs using 3x95 +1x16 +1x70 Sqmm Aerial Bunched Cables (ABC)	Km	580095	56401
41	Installing RLMU for the existing 15/25 KVA Distribution Transformer Center	Per unit	53027	2466
42	Installing RLMU for the existing 63 KVA Distribution Transformer Center	Per unit	59674	2466
43	Installing RLMU for the existing 100 KVA Distribution Transformer Center	Per unit	70540	2466
44	Erection of Compact Pre-fabricated Packaged Sub-station 11kV / 433 V			
	a) With 500 kVA oil cooled transformer	Per unit	579163	8467
	b) With 750 kVA oil cooled transformer	Per unit	1824000	
	c) With 990 kVA oil cooled transformer	Per unit	2280000	
	d) With 500 kVA dry type transformer	Per unit	1997538	
	e) With 750 kVA dry type transformer	Per unit	2507446	
	f) With 990 kVA dry type transformer	Per unit	2908949	
45	providing Electronic Trivector Meters with associated CT's Metering Box etc., on LT side of Distribution Transformer Center			
a)	i) 15/25 kVA (with meter)	Per unit	10072	811
	ii) 15/25 kVA (without meter)		5827	365

Cost Data Sheet No.	PARTICULARS	Unit	Total cost of Estimate (In Rs.)	Labour Charges only casual (In Rs.)
			Material + Labour (Both casual and Regular)	Labour
b)	i) 50/63 kVA (with meter)	Per unit	9592	811
	ii) 50/63 kVA (without meter)		5347	365
c)	i) 100 kVA (with meter)	Per unit	9256	811
	ii) 100 kVA (without meter)		5011	365
d)	i) 250 kVA (with meter)	Per unit	9256	811
	ii) 250 kVA (without meter)		5011	365
e)	i) 500 kVA (with meter)	Per unit	9256	811
	ii) 500 kVA (without meter)		5011	365
46	providing LT Capacitors to the Distribution Transformers			
	a) 3 kVAr	Per unit	995	270
	b) 9 kVAr	Per unit	1401	270
	c) 18 kVAr	Per unit	2251	318
	d) 27 kVAr	Per unit	3330	372
	e) 54 kVAr	Per unit	5472	389
47	For carrying out 1 to 2 three poles works in respect of Ganga Kalyana and Drinking Water Supply Works only.	Nos.	Material cost as per site requirement	6250
48	For carrying out 3 to 5 three poles works in respect of Ganga Kalyana and Drinking Water Supply Works only.	Nos.		9875

COST DATA SHEET - 1

Running Single circuit 11 kV , 3-Phase power line on 9.0 mtr supports with an average span of 40 mtrs using Rabbit ACSR conductor							
SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9.0M Long, 145 kg WL	Nos.	1	5941	5941	750	750
2	PSC pole - 9.0 M Long, 200 kg WL	Sets	23	3607	82961	750	17250
3	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for RCC poles	Set	1	475	475	70	70
4	Horizontal cross arms with clamps, HTST supports, bolts, nuts and washers for PSC poles	Set	23	468	10764	70	1610
5	D.P.Structure with 9 mtr RCC Poles	Set	1	16949	16949	2301	2301
6	11 kV Pin insulators with GI pins	Nos.	72	95	6840	0	0
7	45 kN Disc insulators	Nos.	6	400	2400	0	0
8	Guy sets	Set	6	857	5142	251	1506
9	Rabbit ACSR Conductor	kms	3.045	38500	117233	1846	5621
10	PG Clamps for Rabbit conductor	Nos.	6	84	504	0	0
11	Spiral earth electrode	Nos.	26	228	5928	39	1014
12	EG Stirrups with G.I. wire lacing	Set	24	412	9888	70	1680
13	Concreting materials for guy sets without cement	Nos.	6	112	672	0	0
14	Caution / Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	Nos.	8	108	864	40	320
15	Anti - Climbing Device (10mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	26	70	1820	18	468
	Total				268381		32590
16	Labour charges						
	a) Casual				32590		
	b) Regular				6518		
	Total cost / km in Rs.				307489		
Note:	1) RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports						
	2) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 2

Running Single circuit 11 kV , 3-Phase power line on 9.0 mtr supports with an average span of 50 mtrs using Rabbit ACSR conductor

[illegible]

COST DATA SHEET - 3

Running Single circuit 11 kV , 3-Phase power line on 8.0 mtr supports with an average span of 50 mtrs using Rabbit ACSR conductor

[illegible]

COST DATA SHEET - 4

Running Single circuit 11 kV , 3-Phase power line on 9.0 mtr supports with an average span of 40 mtrs using COYOTE ACSR conductor

[illegible]

COST DATA SHEET - 5

Running single circuit 11 kV 3 Phase Power Line and 3 phase - 4 wire secondary line on 9 mtr supports with an average span of 50 mtrs using Rabbit Conductor for H.T. and WEASEL for L.T Lines

[illegible]

COST DATA SHEET - 6

Running Single circuit 11 kV , 3-Phase power line & 3 phase 4 wire secondary line on 9.0 mtr supports with an average span of 40 mtrs using Rabbit ACSR conductor for HT & LT lines

[illegible]

COST DATA SHEET - 7

Running LT , 3-Phase 4 wire power line on 8.0 mtr supports using WEASEL ACSR conductor with an average span of 60 mtrs (IP Installations)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8.0M Long, 145 kg WL	Nos.	1	4438	4438	601	601
2	PCC pole - 8.0 M Long, 200 kg WL	Sets	17	2613	44421	601	10217
3	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	313	313	68	68
4	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PCC poles)	Set	17	302	5134	68	1156
5	Pin Insulators 1.1. kV class with GI Pins	No	64	37	2368	0	0
6	No.8 Strain Insulators	No	8	12	96	0	0
7	Guy sets	Set	8	839	6712	251	2008
8	Weasel ACSR Conductor	kms	4.06	23000	93380	1354	5497
9	Spiral earth electrode	No	18	228	4104	39	702
10	Concreting materials for guy sets without cement	No	8	112	896	0	0
11	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	18	70	1260	18	324
	Total				163122		20573
12	Labour charges						
	a) Casual				20573		
	b) Regular				4115		
	Total cost / km in Rs.				187810		
Note:	1) RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports						
	2) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 8							
Running LT , 3-Phase 4 wire power line on 8.0 mtr supports using RABBIT ACSR conductor with an average span of 40 mtrs							
SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	RCC Pole - 8.0M Long, 145 kg WL	Nos.	1	4438	4438	601	601
2	PCC pole - 8.0 M Long, 200 kg WL	Sets	24	2613	62712	601	14424
3	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	1	313	313	68	68
4	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PCC poles)	Set	24	302	7248	68	1632
5	Pin Insulators 1.1. kV class with GI Pins	No	96	37	3552	0	0
6	No.8 Strain Insulators	No	8	12	96	0	0
7	Guy sets	Set	8	839	6712	251	2008
8	Rabbit ACSR Conductor	kms	4.06	38500	156310	1846	7495
9	Spiral earth electrode	No	25	228	5700	39	975
10	Concreting materials for guy sets without cement	No	8	112	896	0	0
11	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	25	70	1750	18	450
	Total				249727		27653
12	Labour charges						
	a) Casual				27653		
	b) Regular				5531		
	Total cost / km in Rs.				282910		
Note:	1) RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports						
	2) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET - 9

Running LT , 3-Phase 4 wire power line on 9.0 mtr supports using RABBIT ACSR conductor with an average span of 40 mtrs

[illegible]

COST DATA SHEET - 10

Running LT , 3-Phase 5 wire for power line on 9.0 mtr supports using RABBIT ACSR conductor for phase and neutral, and weasel conductor for street light with an average span of 40 mtrs (For Cities,Towns and Residential Layouts)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	RCC Pole - 9.0M Long, 145 kg WL (for Deadend, Anchor points.)	Nos.	6	5941	35646	750	4500
2	PSC pole - 9.0 M Long, 200 kg WL (for Intermediate Poles)	Nos.	19	3607	68533	750	14250
3	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for RCC poles)	Set	7	313	2191	68	476
4	L.T.4 Pin cross arms, with pole clamps, bolts, nuts and washers (for PSC poles)	Set	22	306	6732	68	1496
5	L.T.2 Pin cross arms, with pole clamps, bolts, nuts (for RCC poles)	Set	7	187	1309	68	476
6	L.T.2 Pin cross arms, with pole clamps, bolts, nuts (for PSC poles)	Set	18	180	3240	68	1224
7	Pin Insulators 1.1. kV class with GI Pins	Nos.	95	37	3515	0	0
8	No.8 Strain Insulators	Nos.	50	12	600	0	0
9	Guy sets	Set	10	839	8390	296	2960
10	Rabbit ACSR Conductor	kms	4.06	38500	156310	2176	8835
11	Weasel ACSR Conductor	Kms	1.015	23000	23345	1596	1620
12	Spiral earth electrode	Nos.	25	228	5700	46	1150
13	Concreting Materials for guy sets (without Cement)	Nos.	8	112	896	0	0
14	Street light meter housing box (SMC)with CT Ratio 50/5A, Accuracy class-2	Nos.	1	2009	2009	245	245
15	Static Energy meter Single phase 5-20A	Nos.	1	1190	1190	34	34
16	Automatic control switch for switching ON/OFF of St.Lights	Nos.	1	1850	1850	0	0
17	PVC Pipe 40 mm dia	mtrs	6	36	216	0	0
18	PVC Insulated wire 25 Sq.mm Single core multi stranded	mtrs	25	28	700	0	0
19	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	25	70	1750	21	525
	Total				324122		37791

Note: The no. of RCC poles and PCC poles have to be used as per field conditions and hence estimates have to be prepared accordingly.

20	Labour charges						
	a) Casual				37791		
	b) Regular				7558		
	Total cost / km in Rs.				369471		

Note: 1) RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports

2) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet

COST DATA SHEET - 11

Running LT , 3-Phase 5 wire for power line on 8.0 mtr supports using RABBIT ACSR conductor for phase and neutral, and weasel conductor for street light with an average span of 50 mtrs

[illegible]

COST DATA SHEET - 12

Running LT , Single Phase 3 wire power line on 8.0 mtr supports with an average span of 40 mtrs using WEASEL ACSR Conductor

[illegible]

COST DATA SHEET - 13

Running LT , 3-Phase 5 wire power line with continuous Earth wire on 9.0 mtr supports using RABBIT ACSR for phase and neutral, and weasel conductor for street light and 8 SWG G.I. wire for continuous Earth wire with an average span of 40 mtrs in Vertical configuration

[illegible]

COST DATA SHEET - 14

Running Single Circuit 11 KV , 3-Phase power line on 9.0 mtr supports using RABBIT ACSR conductor with an average span of 40 mtrs in Vertical Configuration in Congested areas.

[illegible]

COST DATA SHEET -15

Providing 2 pole structure at the tapping point using RCC poles

[illegible]

<u>COST DATA SHEET -16</u>

ERECTION OF 3 POLE STRUCTURE with 9Mtr. RCC Pole

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
	Part- A. Lines			Rate	Amt	Rate	Amt
1	3 Pole Structure complete using 9 mtrs RCC Poles	Set	1	29555	29555	4438	4438
2	Spiral Earth Electrode	No	3	228	684	39	117
3	Guy Set	Set	3	857	2571	251	753
4	45 kN Disc Insulators	No	6	400	2400	0	0
5	11 KV Pin Insulators with GI Pins	No	3	95	285	0	0
6	Concrete for Guy set (without cement)	No	3	112	336	0	0
7	Caution / Danger Board as per Drawing No. BESCO/GM/CP/40/Dt: 24.10.07	No	2	108	216	34	68
8	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	3	70	210	18	54
9	Labour Charges						
	a) Casual						5430
	b) Regular						1086
	Total cost / Unit				42773		
Note:	1) RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports						
	2) Other charges such as service tax, ESI, PF and other applicable charges shall be loaded as per typical cost data sheet						

COST DATA SHEET -17

Estimate for Providing Metering to IP Set installations using SMC Box

SL. No	Paritculars	Unit	Qty	Material cost	
				Rate	Amt
1	Threee Phase Whole Current Meter 10-40A (Electronic Meter).	Nos	1	4275	4275
2	SMC meter housing box with 6mm hylam sheet	Nos	1	2100	2100
4	10/16 sq.mm alluminium single core/multi core of grade 650/1100V(16 Mts)	Set	1	318	318
5	PVC pipe of 2mm thick 40mm dia	Mtrs	4	36	144
6	3 Nos. Porcelain Cutouts 60A with wooden plank	Set	1	500	500
7	Misc materials such as water tight bends and aluminium pins/bullets	LS	LS	-	150
8	Labour Charges (Lump sum)	LS	LS	-	700
	Total				8187

COST DATA SHEET - 18

**For laying of 1 Km length of 11 KV 3 core 95 sq.mm XLPE UG Cable
using Horizontal Drilling**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
	Material Cost				
1	11 kV Class 3X 95 Sq.mm XLPE UG Cable	Kms	1	494000	494000
2	Straight through jointing kits HS Type suitable for 95 Sq.mm Cable	Nos.	3	4674	14022
3	Cable termination kit Out door / In door HS Type Suitable for 95 Sq.mm	Per Kit	2	2600	5200
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	3	300	900
7	Collars for RCC Hume pipe	Nos.	2	80	160
8	GI Pipe, 100 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1098	8784
9	Route and joint indicating stones	Nos.	10	115	1150
	Total				524216
10	Labour charges				
	b) Laying of cable in trench in wherever necessary	Mtrs	50	25343	1267
	d) Labour chargers for horizontal drilling with 6 inches bore size				
	i) Without HDPE Pipe	Rmtr	50	500	25000
	ii) With HDPE pipe	Rmtr	900	730	657000
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	h) Laying of RCC Hume pipes	Nos.	3	28	84
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	10	48	480
	Total Labour Charges	689887			
	a) Casual				689887
	b) Regular				137977
	Total cost / km in Rs.				1352081
11	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
Note:					
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisionshall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 19

**For laying of 1 Km length of 11 KV 3 core 95 sq.mm XLPE UG Cable
using Conventional laying with excavation in soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Material Cost 11 kV Class 3X 95 Sq.mm XLPE UG Cable	Kms	1	494000	494000
2	Straight through jointing kits HS Type suitable for 95 Sq.mm Cable	Nos.	3	4674	14022
3	Cable termination kit Out door / In door HS Type Suitable for 95 Sq.mm	Per Kit	2	2600	5200
4	Cable covering tiles 250X125X40 mm or 125x125x40 mm	Nos.	4000/ 8000	10/5	40000
5	Sand	Cmt	60	1640	98400
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	30	300	9000
7	Collars for RCC Hume pipe	Nos.	30	80	2400
8	GI Pipe, 150 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1092	8736
9	Route and joint indicating stones	Nos.	20	115	2300
	Total				674058
10	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	145	87000
	b) Laying of cable in trench	km	1	25343	25343
	c) Refilling and consolidation	Cmt	550	32	17600
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	f) Covering the cable with tiles	km	1	1843	1843
	g) Spreading Sand and forming with Sand round the cable	km	1	6475	6475
	h) Laying of RCC Hume pipes	mtr	60	28	1680
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	20	48	960
	Total Labour Charges				146957
	a) Casual				146957
	b) Regular				29391
	Total cost / km in Rs.				850406
11	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/ VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCOM/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 20

For laying of 1 Km length of 11 KV 3 core 240 sq.mm XLPE UG Cable using Horizontal Drilling

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
	Material Cost				
1	11 kV Class 3X 240 Sq.mm XLPE UG Cable	Kms	1	975000	975000
2	Straight through jointing kits HS Type suitable for 240 Sq.mm Cable	Nos.	3	5700	17100
3	Cable termination kit Out door / In door HS Type Suitable for 240 Sq.mm	Per Kit	2	3400	6800
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	3	300	900
7	Collars for RCC Hume pipe	Nos.	2	80	160
8	GI Pipe, 100 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1098	8784
9	Route and joint indicating stones	Nos.	10	115	1150
	Total				1009894
10	Labour charges				
	b) Laying of cable in trench in wherever necessary	Mtrs	50	26751	1338
	d) Labour chargers for horizontal drilling with 6 inches bore size				
	i) Without HDPE Pipe	Rmtr	50	500	25000
	ii) With HDPE pipe	Rmtr	900	730	657000
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	h) Laying of RCC Hume pipes	Nos.	3	28	84
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	10	48	480
	Total Labour Charges	689958			
	a) Casual				689958
	b) Regular				137992
	Total cost / km in Rs.				1837843
11	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies(Corporation/municipalities/VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCOM/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisionshall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 21

**For laying of 1 Km length of 11 KV 3 core 240 sq.mm XLPE UG Cable
using Conventional laying with excavation in soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	11 kV Class 3X 240Sq.mm XLPE UG Cable	Kms	1	945000	945000
2	Straight through jointing kits HS Type suitable for 3X240 Sq.mm Cable	Nos.	3	5700	17100
3	Cable termination kit Out door / In door HS Type Suitable for 3X240 Sq.mm	Per Kit	2	3400	6800
4	Cable covering tiles 250X125X40 mm or 125x125x40 mm	Nos.	4000/ 8000	10/5	40000
5	Sand	Cmt	60	1640	98400
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	30	300	9000
7	Collars for RCC Hume pipe	Nos.	30	80	2400
8	GI Pipe, 150 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1098	8784
9	Route and joint indicating stones	Nos.	20	115	2300
	Total				1129784
10	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	145	87000
	b) Laying of cable in trench	km	1	26751	26751
	c) Refilling and consolidation	Cmt	550	32	17600
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	f) Covering the cable with tiles	km	1	1843	1843
	g) Spreading Sand and forming with Sand round the cable	km	1	6475	6475
	h) Laying of RCC Hume pipes	mtr	60	28	1680
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	20	48	960
	Total Labour Charges				
	a) Casual				148365
	b) Regular				29673
	Total cost / km in Rs.				1307822
11	Add Rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations / Municipalities / VPS as applicable)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisionshall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 22

For laying of 1 Km length of 11 KV 3 core 400 sq.mm XLPE UG Cable using Horizontal Drilling

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
	Material Cost				
1	11 kV Class 3X 400 Sq.mm XLPE UG Cable	Kms	1	1501000	1501000
2	Straight through jointing kits HS Type suitable for 400 Sq.mm Cable	Nos.	3	7000	21000
3	Cable termination kit Out door / In door HS Type Suitable for 95 Sq.mm	Per Kit	2	3426	6852
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	3	300	900
7	Collars for RCC Hume pipe	Nos.	2	80	160
8	GI Pipe, 150 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1098	8784
9	Route and joint indicating stones	Nos.	10	115	1150
	Total				1539846
10	Labour charges				
	b) Laying of cable in trench in wherever necessary	Mtrs	50	28158	1408
	d) Labour chargers for horizontal drilling with 6 inches bore size				
	i) Without HDPE Pipe	Rmtr	50	500	25000
	ii) With HDPE pipe	Rmtr	900	730	657000
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	h) Laying of RCC Hume pipes	Nos.	3	28	84
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	10	48	480
	Total Labour Charges	690028			
	a) Casual				690028
	b) Regular				138006
	Total cost / km in Rs.				2367879
11	Add rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/VPs)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCOM/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisionshall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET - 23

**For laying of 1 Km length of 11 KV 3 core 400 sq.mm XLPE UG Cable
using Conventional laying with excavation in soil**

SL. No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	11 kV Class 3X400 Sq.mm XLPE UG Cable	Kms	1	1501000	1501000
2	Straight through jointing kits HS Type suitable for 3X400 Sq.mm Cable	Nos.	3	7000	21000
3	Cable termination kit Out door / In door HS Type Suitable for 3X400 Sq.mm	Per Kit	2	3426	6852
4	Cable covering tiles 250X125X40 mm or 125x125x40 mm	Nos.	4000 / 8000	10/5	40000
5	Sand	Cmt	60	1640	98400
6	RCC Hume pipe, 2000 mm long, 150 mm dia	Nos.	30	300	9000
7	Collars for RCC Hume pipe	Nos.	30	80	2400
8	GI Pipe, 150 mm dia for drain crossing, cable raising etc.,	Mtrs	8	1098	8784
9	Route and joint indicating stones	Nos.	20	115	2300
	Total				1689736
10	Labour charges				
	a) Cable trench excavation, 1000x0.6x1=600, Ordinary soil	Cmt	600	145	87000
	b) Laying of cable in trench	km	1	28158	28158
	c) Refilling and consolidation	Cmt	550	32	17600
	d) Making of straight through joints	No	3	1200	3600
	e) Making of cable terminations	No	2	1100	2200
	f) Covering the cable with tiles	km	1	1843	1843
	g) Spreading Sand and forming with Sand round the cable	km	1	6475	6475
	h) Laying of RCC Hume pipes	mtr	60	28	1680
	i) Laying of GI Pipe	mtr	8	32	256
	j) Laying of Route and Joint indicating stones	No	20	48	960
	Total Labour Charges				
	a) Casual				149772
	b) Regular				29954
	Total cost / km in Rs.				1869462
11	Add rates for Reinstatements of Roads	As per prevailing rates prescribed by local bodies (Corporations/Municipalities/VPs)			
	NOTE				
1)	While preparing estimates for turnkey / total tunkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.				
2)	When multiples cables have to be laid in the common trench the following excavation is to be followed: a) 0.75 Mtrs x 1 Mtrs for 2 cables. b) 1 Mtr x 1 Mtr for 3 cables. c) 1.25 Mtr x 1 Mtr for 4 nos. of cables and so on (As per Ltr No. BESCO/BC-14/F-45				
3)	Where cables are laid using trenchless technology, there may be a necessity to lay the cable in open trench excavation. Hence provisions shall be made for both in the estimate and the bills shall be paid as per actual inventory taken.				

COST DATA SHEET -24

ERECTION OF 3 PHASE 11 KV/433 V 25KVA DISTRIBUTION TRANSFORMER CENTRE USING DPTS							
Sl.No	Particulars	Unit	Qty	25 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	20922	20922	2912	2912
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	17916	17916	2522	2522
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433 V 3 phase 50 Cys 25kVA Distribution Transformer with oil Off Load Tap changer	Set	1	50330	50330	483	483
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	18	36
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	311.5	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				82013		5684
	Total using 8 mtr Poles				79007		5294
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						5684
	b) Regular						1137
	ii) using 8 mtr poles						
	a) Casual						5294
	b) Regular						1059
12	Total for A						
	I) Using 9 mtr Poles				88833		
	ii) using 8 mtr poles				85359		
	Part - B						
13	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		

Sl.No	Particulars	Unit	Qty	25 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	C-Switch gear						
16	a) LT Protection kit for 25 kVA	Nos	1	2360	2360	145	145
	b) LT wiring kit for LT protection kit (Please see B.o.M - 8 & 9)	Nos	1	1566	1566	402	402
	c) LT Metering box for housing ETV Meter with CT(Please see C.D.S -24)	Nos	1	5347	5347	365	365
	d) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	524
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
	Total Cost (Material)				21930		
19	Labour Charges						
	a) Casual						1662
	b) Regular						332
20	Total for C				23924		
21	Total (A+B+C)						
	1) Using 9 mtr Poles				114773		
	Labour Charges: Casual						7396
	Regular						1479
	2) Using 8 mtr Poles				111299		
	Labour Charges: Casual						7006
	Regular						1401

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

1 While preparing estimates for turnkey / total turnkey projects please refer to Sl. No. of General Guidelines vide a to in Page No.

COST DATA SHEET -25

ERECTION OF 3 PHASE 11 kV/433 V 63KVA DISTRIBUTION TRANSFORMER CENTRE USING DPTS

Sl.No	Particulars	Unit	Qty	63 KVA		
				Material cost		Labour Cost
				Rate	Amt	Amt
1	A. Transformer					
	a) 9 mtr RCC DP Transformer Structure	Kms	1	20922	20922	2912
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	17916	17916	2522
2	11 kV Pin insulators	Set	3	95	285	0
3	45 kN disc insulators	Set	3	400	1200	0
4	Guy set	No	4	857	3428	1004
5	11 kV/433 V 3 phase 50 Cys 63kVA Distribution Transformer with oil Off Load Tap changer	Set	1	78100	78100	483
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	1215
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	36
8	Concreting for Guy sets without cement	Nos.	4	112	448	0
9	GI Wire 8 SWG	Kgs	5	62.3	311.5	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0
	Total using 9 mtr Poles				109783	5684
	Total using 8 mtr Poles				106777	5294
11	Labour Charges					
	I) using 9 mtr Poles					
	a) Casual					5684
	b) Regular					1137
	ii) using 8 mtr poles					
	a) Casual					5294
	b) Regular					1059
12	Total for A					
	I) Using 9 mtr Poles				116603	
	ii) using 8 mtr poles				113129	

Sl.No	Particulars	Unit	Qty	63 KVA		
				Material cost		Labour Cost
				Rate	Amt	Amt
	Part - B					
13	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set of 3 Nos	1	1955	1955	50
14	Labour Charges					
	a) Casual					50
	b) Regular					10
15	Total for B				2015	
	C-Switch gear					
16	a) LT Protection kit for 63 kVA	Nos	2	2360	2288	208
	b) LT wiring kit for LT protection kit D C (Please see B.o.M - 8 & 9)	Nos	1	7681	7681	644
	c) LT Metering box for housing ETV Meter with CT(Please see C.D.S -24)	Nos	1	5347	5347	365
	d) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300
18	GOS 200 A single break	Nos	1	7580	7580	450
	Total Cost (Material)				27973	
19	Labour Charges					
	a) Casual					1967
	b) Regular					393
20	Total for C				30333	
21	Total (A+B+C)					
	1) Using 9 mtr Poles				148952	
	Labour Charges: Casual					7701
	Regular					1540
	2) Using 8 mtr Poles				145478	
	Labour Charges: Casual					7311
	Regular					1462

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET -26

ERECTION OF 3 PHASE 11 kV/433 V 100KVA DISTRIBUTION TRANSFORMER CENTRE USING DPTS

Sl.No	Particulars	Unit	Qty	100 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	27447	27447	2999	2999
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	24441	24441	2703	2703
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433 V 3 phase 50 Cys 100 kVA Distribution Transformer with oil Off Load Tap changer	Set	1	97400	97400	644	644
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	450	1350
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	18	36
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	312	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				135607.5		6067
	Total using 8 mtr Poles				132601.5		5771
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						6067
	b) Regular						1213
	ii) using 8 mtr poles						
	a) Casual						5771
	b) Regular						1154
12	Total for A						
	I) Using 9 mtr Poles				142888		
	ii) using 8 mtr poles				139527		

Sl.No	Particulars	Unit	Qty	100 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	Part - B						
13	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		
	C-Switch gear						
16	a) LT Protection kit	Nos	2	2360	4720	145	290
	b) LT Distribution box for 100 kVA with MCB	Nos.	1	15625	15625	322	322
	c) LT wiring kit for LT protection kit (Please see B.o.M - 8 & 9)	Nos	1	12082	12082	644	644
	d) LT Metering box for housing ETV Meter with CT(Please see C.D.S -24)	Nos	1	5011	5011	365	365
	e) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
		With LT Protection kit		With Distribution Box			
	Total Cost (Material)		34470		45375		
19	Labour Charges						
	a) Casual		2495		2527		
	b) Regular		499		505		
20	Total for C		37464		48407		
21	Total (A+B+C)						
	1) Using 9 mtr Poles		182367		193310		
	Labour Charges: Casual		8612		8644		
	Regular		1722		1729		
	2) Using 8 mtr Poles		179006		189949		
	Labour Charges: Casual		8316		8348		
	Regular		1663		1670		

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET -27

ERECTION OF 3 PHASE 11 kV/433 V 250KVA DISTRIBUTION TRANSFORMER CENTRE USING DPTS

Sl.No	Particulars	Unit	Qty	250 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	27447	27447	2999	3535
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	24441	24441	2703	3185
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433 V 3 phase 50 Cys 250 kVA Distribution Transformer with oil Off Load Tap changer	Set	1	233000	233000	966	966
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	450	1350
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	18	36
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	312	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				271208		6925
	Total using 8 mtr Poles				268202		6575
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						6925
	b) Regular						1385
	ii) using 8 mtr poles						
	a) Casual						6575
	b) Regular						1315
12	Total for A						
	I) Using 9 mtr Poles				279518		
	ii) using 8 mtr poles				276092		

Sl.No	Particulars	Unit	Qty	250 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	Part - B						
13	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		
	C-Switch gear						
16	a) LT Distribution box for 250kVA with MCCB	Nos	1	15625	15625	322	322
	b) LT wiring kit Double Circuit (Please see B.o.M - 8 & 9)	Nos	1	22558	22558	1030	1030
	c) LT Metering box for housing ETV Meter with CT(Please see C.D.S -24)	Nos	1	5011	5011	365	365
	d) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
	Total Cost (Material)				55851		
19	Labour Charges						
	a) Casual						2467
	b) Regular						493
20	Total for C				58811		
21	Total (A+B+C)						
	1) Using 9 mtr Poles				340344		
	Labour Charges: Casual						9442
	Regular						1888
	2) Using 8 mtr Poles				336918		
	Labour Charges: Casual						9092
	Regular						1818

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET -28

ERECTION OF 3 PHASE 11 kV/433 V 25KVA DISTRIBUTION TRANSFORMER CENTRE ON DPTS USING BEE-3STAR RATED TRANSFORMER

Sl.No	Particulars	Unit	Qty	25 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	24917	24917	2912	2912
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	21911	21911	2522	2522
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433V, 25KVA, 3 phase 50 Cys Distribution Transformer BEE-3Star Rated with oil Off Load Tap changer	Set	1	77640	77640	483	483
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	21	42
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	311.5	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				113318		5690
	Total using 8 mtr Poles				110312		5300
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						5690
	b) Regular						1138
	ii) using 8 mtr poles						
	a) Casual						5300
	b) Regular						1060
12	Total for A						
	I) Using 9 mtr Poles				120146		
	ii) using 8 mtr poles				116672		
	Part - B						
13	11 kV lightning Arrester , Metal oxide, kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		

Sl.No	Particulars	Unit	Qty	25 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	C-Switch gear						
16	a) LT Protection kit for 25 kVA	Nos	1	2360	2360	145	145
	b) LT wiring kit for LT protection kit (Please see B.o.M - 8 & 9)	Nos	1	1478	1478	402	402
	c) LT Metering box for housing ETV Meter with CT (Please see C.D.S -24)	Nos	1	5347	5347	365	365
	d) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
	Total Cost (Material)				21842		
19	Labour Charges						
	a) Casual						1662
	b) Regular						332
20	Total for C				23836		
21	Total (A+B+C)						
	1) Using 9 mtr Poles				145997		
	Labour Charges: Casual						7402
	Regular						1480
	2) Using 8 mtr Poles				142523		
	Labour Charges: Casual						7012
	Regular						1402

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET -29

ERECTION OF 3 PHASE 11 kV/433 V 63KVA DISTRIBUTION TRANSFORMER CENTRE ON DPTS USING BEE-3STAR RATED TRANSFORMER

Sl.No	Particulars	Unit	Qty	63 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	24917	24917	2912	2912
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	21911	21911	2522	2522
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433 V 63.KVA 3 phase 50 Cys Distribution Transformer BEE=3 Star Rated with oil Off Load Tap changer	Set	1	114660	114660	483	483
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	21	42
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	311.5	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				150338		5690
	Total using 8 mtr Poles				147332		5300
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						5690
	b) Regular						1138
	ii) using 8 mtr poles						
	a) Casual						5300
	b) Regular						1060
12	Total for A						
	I) Using 9 mtr Poles				157166		
	ii) using 8 mtr poles				153692		
	Part - B						
13	11 kV lightning Arrester , Metal oxide,9 kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		

Sl.No	Particulars	Unit	Qty	63 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	C-Switch gear						
16	a) LT Protection kit for 63 kVA	Nos	2	2360	4720	145	290
	b) LT wiring kit for LT protection kit (Please see B.o.M - 8 & 9)	Nos	1	7681	7681	644	644
	c) LT Metering box for housing ETV Meter with CT (Please see C.D.S -24)	Nos	1	5347	5347	365	365
	d) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
	Total Cost (Material)				30405		
19	Labour Charges						
	a) Casual						2049
	b) Regular						410
20	Total for C				32864		
21	Total (A+B+C)						
	1) Using 9 mtr Poles				192044		
	Labour Charges: Casual						7789
	Regular						1558
	2) Using 8 mtr Poles				188570		
	Labour Charges: Casual						7399
	Regular						1480

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET -30

ERECTION OF 3 PHASE 11 kV/433 V 100KVA DISTRIBUTION TRANSFORMER CENTRE ON DPTS USING BEE-3 STAR RATED TRANSFORMER

SI.No	Particulars	Unit	Qty	100 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	A. Transformer						
	a) 9 mtr RCC DP Transformer Structure	Kms	1	27447	27447	2999	2999
	b) 8 mtr RCC DP Transformer Structure	Nos.	1	24441	24441	2703	2703
2	11 kV Pin insulators	Set	3	95	285	0	0
3	45 kN disc insulators	Set	3	400	1200	0	0
4	Guy set	No	4	857	3428	251	1004
5	11 kV/433 V 100.KVA 3 phase 50 Cys Distribution Transformer BEE-3 Star Rated with oil Off Load Tap changer	Set	1	178480	178480	644	644
6	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
13	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
14	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	18	36
8	Concreting for Guy sets without cement	Nos.	4	112	448	0	0
9	GI Wire 8 SWG	Kgs	5	62.3	312	0	0
10	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
	Total using 9 mtr Poles				216688		5932
	Total using 8 mtr Poles				213682		5636
11	Labour Charges						
	I) using 9 mtr Poles						
	a) Casual						5932
	b) Regular						1186
	ii) using 8 mtr poles						
	a) Casual						5636
	b) Regular						1127
12	Total for A						
	I) Using 9 mtr Poles				223806		
	ii) using 8 mtr poles				220445		
	Part - B						
13	11 kV lightning Arrester , Metal oxide, kV, 5 kA	Set of 3 Nos	1	1955	1955	50	50
14	Labour Charges						
	a) Casual						50
	b) Regular						10
15	Total for B				2015		

Sl.No	Particulars	Unit	Qty	100 KVA			
				Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
	C-Switch gear						
16	a) LT Protection kit	Nos	2	2360	4720	145	290
	b) LT Distribution box for 100 kVA with MCB	Nos.	1	15625	15625	322	322
	c) LT wiring kit for LT protection kit (Please see B.o.M - 8 & 9)	Nos	1	12082	12082	644	644
	d) LT Metering box for housing ETV Meter with CT(Please see C.D.S -24)	Nos	1	5011	5011	365	365
	e) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	Nos.	1	4245	4245	446	446
17	HG Fuse, 11 kV Solid Core Type (3Nos)	Set/ 3 nos	1	832	832	300	300
18	GOS 200 A single break	Nos	1	7580	7580	450	450
		With LT Protection kit		With Distribution Box			
	Total Cost (Material)		34470		45375		
19	Labour Charges						
	a) Casual		2495		2527		
	b) Regular		499		505		
20	Total for C		37464		48407		
21	Total (A+B+C)						
	1) Using 9 mtr Poles		263285		274228		
	Labour Charges: Casual		8477		8509		
	Regular		1695		1702		
	2) Using 8 mtr Poles		259924		270867		
	Labour Charges: Casual		8181		8213		
	Regular		1636		1643		

Note: Provision for actual quantity of additional materials viz 45 kN disc insulator 11 kV pin insulators ACSR/AAA Conductor, Transparent Alkathin Tube, PG Clamps and Terminal Connectors etc. Whenever required may be made in the estimate separately for

COST DATA SHEET - 31

Erection of 25 kVA , 11kV/433V , Single pole mounted transformer centre on 9 Mtrs RCC Pole (Square Section)

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 mtr long RCC pole (Square Section)	Nos	1	7210	7210	750	750
2	11kV Pin insulators with pins	Nos	3	95	285	0	0
3	45 kN Disc insulator	Nos	3	400	1200	0	0
4	Guy set complete	Set	1	857	857	251	251
5	Single pole TC set suitable for 25 kVA Transformer	Set	1	5000	5000	720	720
6	25 kVA, 11kV/433Volts 3 phase 50 cycles Dist. Tr. with Oil	Nos	1	50330	50330	483	483
7	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
8	Concreting materials for 9 mtr RCC Pole						
	a) Base concreting 1:4:8, 650x650x150 mm	each	1	237	237	0	0
	b) Pole concreting 1:2:4, 500x500x1650	each	1	2079	2079	0	0
	c) Coping 1:2:4 (as per actuals)	each	1	256	256	0	0
9	Concreting materials for Guy sets (without cement)	Nos	1	112	112	0	0
10	GI Wire 8 SWG	Kgs	5	62.3	311.5	0	0
11	Guy wire 7/10 SWG	Kgs	10	64.0	640	0	0
12	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set / 3 nos	1	1955	1955	50	50
13	a) LT Metering Box for housing the ETV Meter with CT's	Set	1	5011	5011	365	365
	b) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No.	1	4245	4245	446	524
14	a) LT Protection kit	Kit	1	2360	2360	145	145
	b) LT Wiring kit	Kit	1	1470	1470	402	402
15	HG Fuse, 11 kV Solid Core Type	Set/ 3 nos	1	832	832	300	300
16	11 kV, 200 Amps, single break GOS	Nos	1	7580	7580	450	450
17	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
18	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	1	70	70	18	18
19	Total material cost				96348.5		
20	Labour Charges						
	a) Casual						5707
	b) Regular						1141
	Total cost for erection of a single pole mounted 25kVA Transformer in Rs				103197		

COST DATA SHEET - 32

Erection of 63 kVA , 11kV/433V , Single pole mounted transformer centre on 9 Mtrs RCC Pole (Square Section)

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 mtr long RCC pole (Square Section)	Nos	1	7210	7210	750	750
2	11kV Pin insulators with pins	Nos	3	95	285	0	0
3	45 kN Disc insulator	Nos	3	400	1200	0	0
4	Guy set complete	Set	1	857	857	251	251
5	Single pole TC set suitable for 63 kVA Transformer	Set	1	5000	5000	720	720
6	63 kVA,11kV/433Volts 3 phase 50 cycles Dist. Tr. with Oil	Nos	1	78100	78100	483	483
7	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
8	Concreting materials for 9 mtr RCC Pole						
	a) Base concreting 1:4:8, 500x650x150 mm	each	1	237	237	0	0
	b) Pole concreting 1:2:4, 500x500x1700	each	1	2079	2079	0	0
	c) Coping 1:2:4 (as per actuals)	each	1	256	256	0	0
9	Concreting materials for Guy sets (without cement)	Nos	1	112	112	0	0
10	GI Wire 8 SWG	Kgs	5	62.3	312	0	0
11	Guy wire 7/10 SWG	Kgs	10	64.0	640	0	0
12	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set / 3 nos	1	1955	1955	50	50
13	a) LT Metering Box for housing the ETV Meter with CT's	Set	1	5011	5011	365	365
	b) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No.	1	4245	4245	446	446
14	a) LT Protection kit	Kit	2	2360	4720	145	290
	b) LT Wiring kit (Double Circuit)	Kit	1	7681	7681	644	644
15	HG Fuse, 11 kV Solid Core Type	Set/ 3 nos	1	832	832	300	300
16	11 kV, 200 Amps, single break GOS	Nos	1	7580	7580	450	450
17	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	18
18	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	1	70	70	18	18
19	Total material cost				132690		
20	Labour Charges						
	a) Casual						6000
	b) Regular						1200
	Total cost for erection of a single pole mounted 63kVA Transformer in Rs				139890		

COST DATA SHEET - 33

Erection of 100 kVA , 11kV/433V , Single pole mounted transformer centre on 9 Mtrs RCC Pole (Square Section)

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	9 mtr long RCC pole (Square Section)	Nos	1	7210	7210	750	750
2	11kV Pin insulators with pins	Nos	3	95	285	0	0
3	45 kN Disc insulator	Nos	3	400	1200	0	0
4	Guy set complete	Set	1	857	857	251	251
5	Single pole TC set suitable for 100 kVA Transformer	Set	1	7507	7507	720	720
6	100 kVA,11kV/433Volts 3 phase 50 cycles Dist. Tr. with Oil	Nos	1	97400	97400	644	644
7	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Nos	3	1400	4200	405	1215
8	Concreting materials for 9 mtr RCC Pole			0	0	0	0
	a) Base concreting 1:4:8, 500x650x150 mm	each	1	237	237	0	0
	b) Pole concreting 1:2:4, 500x500x1700	each	1	2079	2079	0	0
	c) Coping 1:2:4 (as per actuals)	each	1	256	256	0	0
9	Concreting materials for Guy sets (without cement)	Nos	1	112	112	0	0
10	GI Wire 8 SWG	Kgs	5	62.3	311.5	0	0
11	Guy wire 7/10 SWG	Kgs	10	64.0	640	0	0
12	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set / 3 nos	1	1955	1955	50	50
13	a) LT Metering Box for housing the ETV Meter with CT's	Set	1	5011	5011	365	365
	b) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No.	1	4245	4245	446	446
14	a) LT Distribution Box	Kit	1	15625	15625	322	322
	b) LT Protection Kit	Kit	2	2360	4720	145	290
15	LT Wiring kit (Double Circuit)	Kit	1	12082	12082	644	644
16	HG Fuse, 11 kV Solid Core Type	Set/ 3 nos	1	832	832	300	300
17	11 kV, 200 Amps, single break GOS	Nos	1	7580	7580	450	450
18	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
19	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	1	70	70	18	18
20	Total Material Cost						
	a) With L.T.DistributionBox				169803		
	b) With L.T.Protection kit				158898		
21	Labour Charges						
	a) Casual				6177		6209
	b) Regular				1235		1242
	Total						
	Total cost for erection of a single pole mounted 100kVA Transformer with LT Distribution Box in Rs				177253		
	Total cost for erection of a single pole mounted 100kVA Transformer with LT Protection KIT in Rs				166310		

COST DATA SHEET-34

Erection of 250 KVA, 11kV/433V, Single pole mounted Distribution Transformer on 11.0 mtr spun pole with 3 GOS system

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	Spun pole 11.0 mtr long	Nos	1	14989	14989	1621	1621
2	Single pole transformer structure kit for 250kVA	Set	1	25050	25050	1439	1439
3	HT Single top support with bolts, nuts & washers	Set	9	98	882	45	405
4	11kV pin insulator with pins	Nos	9	95	855	0	0
5	Rabbit ACSR Conductor for jumps	Mtrs	50	38.50	1925	0	0
6	Alkathene tube 19mm dia and in coils of 30 mtrs	Coils	2	500	1000	0	0
7	Concreting materials for 11 Mtrs Spun Pole						
	a) Base concreting 1:4:8, 1000x1000x150mm	each	1	603	603	0	0
	b) Pole concreting 1:2:4, 1000x1000x2500 mm	each	1	11513	11513	0	0
	c) Coping 1:2:4 (as per actuals)	each	1	666	666	0	0
8	GI Wire 10 SWG	Kgs	5	62	312	0	0
9	Guy wire 7/10 SWG	Kgs	10	64	640	0	0
10	GI Pipe 100 mm dia	Mtrs	10	1097	10970	0	0
11	PVC Pipe 150 mm dia	Mtrs	20	233	4660	0	0
12	PVC bend 150 mm dia	Nos	8	32	256	0	0
13	PVC pipe (25mm dia)	Mtrs	40	22	880	0	0
14	250 kVA Distribution Transformer, 11kV/433V with Oil	Nos	1	233000	233000	966	966
15	200A Single break GOS	Nos	3	7580	22740	450	1350
16	HG Fuse unit 11kV Solid core type	Set/3 nos	1	832	832	300	300
17	Earthing materials pipe type for grounding as per Drawing No. BESCOM/GM/CP/15 & 34/Dt: 24.10.07.	Single Electrode with accessories	3	1400	4200	405	1215
18	a) LT Metering Box for housing the ETV Meter with CT's	Nos	1	5011	5011	365	365
	b) L.T. Electronic Tri-Vector Meter 5A, Class-0.5/1.0 accuracy	No.	1	4245	4245	446	446
19	LT Distribution box for 250 kVA including wiring	Nos	1	15625	15625	322	322
20	LT Wiring kit for 250 kVA	Kit	1	22558	22558	1030	1030
21	11 kV lightning Arrester , Metal oxide, 9 kV, 5 kA	Set / 3 nos	1	1955	1955	50	50
22	PVC Insulation tape in rolls of 10 mtrs	Roll	3	10	30	0	0
23	Horizontal cross arms	nos	4	380	1520	58	232
24	MS Fish plate	Nos	9	57	513	14	126
25	Caution / Danger Board as per Drawing No. BESCOM/GM/CP/40/Dt: 24.10.07	No	1	108	108	34	34
26	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	Kg	2	70	140	18	36
	Total cost of Material				387678		
27	Labour Charges						
	a) Casual						9937
	b) Regular						1987
	Total cost in Rs			399602			

COST DATA SHEET-35

Providing Compact RMU 11kV Class SF6/VCB Type (1 Incomer+2Breaker+1 Outgoing)

[illegible]

COST DATA SHEET-36

Providing Compact RMU 11kV Class SF6/VCB Type (1 Incomer+1 Breaker+1 Outgoing)

[illegible]

COST DATA SHEET-37

Providing Compact RMU 11kV Class SF6/VCB Type (10D)

[illegible]

COST DATA SHEET-38

Providing Compact RMU 11kV Class SF6/VCB Type (1VL)

[illegible]

COST DATA SHEET - 39

Running Single Circuit 11 kV 3 Phase Power Line on 9 mtr supports with average span of 30 mtrs using 3x95 Sqmm+1x70 Sqmm Aerial Bunched Cables (ABC)

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	R.C.C Poles 9.0 mtr long with 145 KG WL	Nos.	10	5941	59410	750	7500
	P.S.C Poles 9.0 mtr long with 200 kg WL	Nos.	24	3607	86568	750	18000
Note:	RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports and hence the quantity of RCC and PSC poles may be revised as per field condition.						
2	11kV Class 3phase Aerial Bunched Cable 3x95 Sq mm + 70Sq mm	kms	1.015	639788	649384.82	14461	14678
3	Cable Straight thru' joint kits suitable for 95 Sq mm	Sets	3	2963	8889	2198	6594
4	T-Jointing kits	Sets	12	3757	45084	2747	32964
5	Termination kits	Sets	15	1879	28185	1859	27885
6	Suspension clamp assembly including pole clamps	Sets	30	289	8670	102	3060
7	Dead end clamp / Anchor clamp assembly including brackets, pole clamps	Sets	12	145	1740	136	1632
8	End Caps	Nos.	10	19	190	4	40
8	11 kV lightning Arrester, Metal oxide,9 kV, 5 kA	Set (3Nos)	2	1955	3910	50	100
9	Guy sets	Sets	6	857	5142	251	1506
10	Concreting for Guy sets (without cement)	Sets	6	112	672		
11	Grounding connection for messenger wire	Nos.	4	117	468	23	92
12	Anchor sleeve for messenger wire	Nos.	4	22	88	4	16
13	Spiral earth electrodes	Nos.	34	228	7752	39	1326
14	Labour Charges						
	a) Casual						115393
	b) Regular						23079
	Total Cost of Materials				906153		
15	Total cost / km in Rs.				1044624		

COST DATA SHEET - 40

**Running Single Circuit 1.1 kV 3 Phase 5 Wire Power Line on 9 mtr supports with average span of 40 mtrs using
3x95+1x16+1x70Sqmm Aerial Bunched Cables (ABC)**

SL. No	Particulars	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	R.C.C Poles 9.0 mtr long with 145 KG WL	Nos.	10	5941	59410	750	7500
2	P.S.C Poles 9.0 mtr long with 200 kg WL	Nos.	15	3607	54105	750	11250
Note:	RCC Poles shall be used for dead ends, DP structure and PSC poles for intermediate supports and hence the quantity of RCC and PSC poles may be revised as per field condition.						
3	1.1kV Class 3phase Aerial Bunched Cable of size 3x95+1x16+1x70 Sq mm	kms	1.015	292270	296654.1	10753	10914
4	Three phase Distribution box for 6 connections	Nos.	20	1987	39740	476	9520
5	Piercing connector suitable for 16 Sq.mm-95 Sq.mm AB Cable- Service connections	Nos.	60	217	13020	68	4080
6	Piercing connector suitable for 16 Sq.mm-95 Sq.mm AB Cable- streetlight connections	Nos.	25	152	3800	48	1200
7	Suspension clamp assembly including pole clamps	Sets	20	289	5780	102	2040
8	Dead end clamp / Anchor clamp assembly including brackets, pole clamps	Sets	16	145	2320	136	2176
9	Universal hook, Bolts & nuts	Nos.	16	289	4624	102	1632
10	T-connector KZ3 95	Nos.	8	372	2976	115	920
11	Cable Straight thru' joint kits suitable for 95 Sq mm	Sets	5	310	1550	170	850
12	Pre-Insulated lugs-CPTAU for 95 Sq.mm	Nos.	8	372	2976	142	1136
13	End cap for 50/70 Sqmm	Nos.	50	19	950	4	200
14	Guy sets	Sets	8	839	6712	251	2008
15	Concreting for Guy sets(without cement)	Sets	8	112	896		
16	PVC Insulated wire 16/25 Sq mm	mtrs	400	28.00	11200		
17	Spiral earth electrodes	Nos.	25	228	5700	39	975
18	Labour Charges						
	a) Casual						56401
	b) Regular						11280
	Total Cost of Materials				512413		
	Total cost / km in Rs.				580095		

1 While preparing estimates for turnkey / total turnkey projects please refere to Sl. No. To general guidelines vide a to page No. To

COST DATA SHEET -41

Installing RLMU for the existing 15/25 kVA Distribution Transformer Center

SI No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB- 40 Amps for 15/25 kVA DTC	No	1	1485	1485
5	MCB 6 amps	No	1	210	210
6	Contactors- 40 Amps for 15/25 kVA DTC	No	2	2010	4020
7	Current Transformers 50/5 amps for 15/25 kVA DTC	No	3	435	1305
8	Energy meter ETV type	No	1	4245	4245
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	875	875
10	Miscellaneous materials	LS	LS	195	195
	Total Cost (Material)				50068
11	Labour Charges				
	a) Casual				2466
	b) Regular				493
	Total Cost				53027
Note:	(1) For 15 /25 kVA Transformer feeding to individual IP sets, use only one contactor & without MCCB .				
1)	While preparing estimates for turnkey / total tunkey projects please refer to SI. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET -42

Installing RLMU for the existing 63 kVA Distribution Transformer Center

SI No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB- 100 Amps for 63 kVA DTC	No	1	1500	1500
5	MCB 6 amps	No	1	210	210
6	Contactors- 100 Amps for 63 kVA DTC	No	2	3280	6560
7	Current Transformers 100/5 amps for 63 kVA DTC	No	3	321	963
8	Energy meter ETV type	No	1	4245	4245
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	5322	5322
10	Miscellaneous materials	LS	LS	182	182
	Total Cost (Material)				56715
11	Labour Charges				
	a) Casual				2466
	b) Regular				493
	Total Cost			59674	
1)	While preparing estimates for turnkey / total tunkey projects please refer to SI. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET -43

Installing RLMU for the existing 100 kVA Distribution Transformer Center

SI No	Particulars	Unit	Qty	Material cost	
				Rate	Amt
1	Metallic Enclosure with Busbars	No	1	10752	10752
2	Programmable Logic Controllers with communication ports	No	1	19339	19339
3	GSM Modem	No	1	7642	7642
4	MCCB- 150 Amps for 100 kVA DTC	No	1	1700	1700
5	MCB 6 amps	No	1	210	210
6	Contactors- 160 Amps for 100 kVA DTC	No	2	5775	11550
7	Current Transformers 150/5 amps for 100 kVA DTC	No	3	241	723
8	Energy meter ETV type	No	1	4245	4245
9	Transformer wiring kit to Connect RLM Unit box to the transformer using PVC sheathed aluminium lead wire, Lugs etc.,	Kit	1	11183	11183
10	Miscellaneous materials	LS	LS	237	237
	Total Cost (Material)				67581
11	Labour Charges				
	a) Casual				2466
	b) Regular				493
12	Total Cost			70540	
1)	While preparing estimates for turnkey / total tunkey projects please refer to SI. No. of General Guidelines vide a to in Page No.				

COST DATA SHEET - 44

Providing Compact Pre-fabricated Packaged Sub-station 11kV / 433 V

Sl.No	Particulars	Unit	Total Cost
1	Packaged Sub-station 11kV/433 V consisting of 3 way SF6/VCB insulated compact RMU, oil cooled type copper wound transformer and L.T section with one ACB as incoming and 7 nos. outgoing MCCB feeders, and with encloser made of electronically Galvanized she		
	(i) With 500 kVA oil cooled transformer	Set	1579163
	(ii) With 750 kVA oil cooled transformer	Set	1824000
	(iii) With 990 kVA oil cooled transformer	Set	2280000
	(iv) With 500 kVA Dry Type Transformer	Set	1997538
	(iv) With 750 kVA Dry Type Transformer	Set	2507446
	(iv) With 990 kVA Dry Type Transformer	Set	2908949
2	Installing & fixing the compact pre-fabricated packaged sub-station 500/750/990 kVA transformer on the existing concrete plinth.(This does not include the cost of plinth, cable duct,laying & termination of cable etc. provision for the same shall be made		8467
1	While preparing estimates for turnkey / total turnkey projects please refere to Sl. No. To general guidelines vide a to page No. To		

COST DATA SHEET-45

For providing Electronic Trivector Meters with associated CT's Metering Box etc., on LT side of Distribution Transformer Center

Sl. No	Materials	Unit	Qty	Material cost		Labour Cost	
				Rate	Amt	Rate	Amt
1	LT CT's Class-1 accuracy ring type ratio 50/5 for 15/25 kVA DTC	Nos	3	609	1827	45	135
2	LT CT's Class-0.5 accuracy ring type ratio 100/5 for 50/63 kVA DTC	Nos	3	449	1347	45	135
3	LT CT's Class-0.5 accuracy ring type ratio 150/5 for 100 kVA DTC	Nos	3	337	1011	45	135
4	LT CT's Class-0.5 accuracy ring type ratio 400/5 for 250 kVA DTC	Nos	3	337	1011	45	135
5	LT CT's Class-0.5 accuracy ring type ratio 800/5 for 500 kVA DTC	Nos	3	337	1011	45	135
6	Electronic Trivector Meter 3-phase 4 wire	Nos	1	4245	4245	446	446
7	Weather Proof , Verming Proof LT Metering Box with clamping arrangement for mounting on the Transformer structure with necessary terminal strip and CT mounting arrangement for housing the ETV Meters and connecting to the existing ground.	Nos	1	4000	4000	230	230
	Total Cost (Rs.)	With Meter			Without Meter		
	a)15/25 kVA DTC	10072		811	5827		365
	b) 63 kVA DTC	9592		811	5347		365
	c)100 kVA DTC	9256		811	5011		365
	d) 250 kVA DTC	9256		811	5011		365
	e) 500 kVA DTC	9256		811	5011		365

1	While preparing estimates for turnkey / total turnkey projects please refere to Sl. No. To general guidelines vide a to page No. To
---	---

COST DATA SHEET-46

For providing L.T Capacitor to the Distribution Transformer

[illegible]

Common Schedule of Rates 2012-13
(Effective from 12.03.2013)

PREFACE

- 1.0 Schedule of Rates (SR) are a set of information indicating Rates of Various Materials and Labour to be adopted for preparation of Estimates and DPRs.

Procedure adopted for preparing Common SR 2012-13

- 2.0 After the formation of ESCOM's separate ESCOM wise SRs were being prepared and issued. In the monthly meeting held on 04.05.2009 chaired by the principal secretary to Energy Government of Karnataka wherein MD KPTCL and MD's of all ESCOM's were present it was directed to explore the possibility of preparing a Common SR applicable to all the ESCOM's.
- 3.0 Accordingly Common SR for all ESCOM's applicable to 2009-10 with effect from 01.08.2009 and Common SR 2010-11 effective from 01.07.2010 have been issued.
- 4.0 The Government of Karnataka vide the letter number EAS 25 BSC 2012 Dt: 16.08.2012 issued directions to KPTCL to constitute a committee under the Chairmanship of Hon'ble Managing Director, KPTCL with all directors (Technical of ESCOM) as members for preparation of schedule of rates pertaining to the Electricity Distribution Companies (ESCOM's)
- 5.0 Accordingly KPTCL constituted a committee vide KPTCL Order No. KPTCL/B25/32514/2012-13 Dated 08.10.2012 with the following members.

1. Managing Director, KPTCL, Bangalore	Chairman.
2. Director (Technical), BESCOM, Bangalore. :	Member
3. Director (Technical), MESCOM, Mangalore :	Member
4. Director (Technical), CESC, Mysore :	Member
5. Director (Technical), HESCOM, Hubli :	Member
6. Director (Technical), GESCOM, Gulbarga :	Member
7. Chief Engineer (Electy), T&P KPTCL, Bangalore	Member / Convener.

- 6.0 The committee met on 31.10.2012 and entrusted the work of preparing the Common SR 2012-13 to consultants (Retired Executive Engineers (Ele.) KPTCL) with direction to place the draft proposal with revised rates for material and labor before the committee in the next meeting.

- 7.0 The draft Common SR 2012-13 was prepared in accordance with the directions issued in the meeting held on 31.10.2012 duly adopting the modality for finalizing the prices of materials and labour charges as under:-

MATERIAL

1. Procurement rates for materials procured by BESCO during 01.04.2011 to 30.09.2012 have been obtained and listed. Consequent to assigning works on Total Turnkey and Partial Turnkey the items procured forms only a small number compared to the number of items listed in the SR.
2. In respect of materials which have not been procured during the above period, prevailing SR are updated using IEEMA PV formulae.
3. For updating the prevailing SR rates, IEEMA price indices average from April- 09 to April-10 and September / October -2012 are taken as reference.
4. For some materials which are market rates are considered for ex: Aerial Fuse Board, HT U.G. Cable, AB Cable, Termination and jointing kits.
5. For some materials for which IEEMA PV is not available prorata rates on similar materials have been worked out.
6. For materials like Poles, Conductor and Line Materials Prices have been worked out based on the raw material cost, applicable labour and other overheads.
7. For scrap material BESCO auction rate average has been incorporated and in respect of items for which auction rates are not available prorata have been worked out on the price of similar material and for some items prevailing SR rates are continued.
8. KPWD rates have been adopted for civil works. KPTCL SR is adopted for substation works.
9. The excise duty has been revised from 10.0% to 12.0% with Cess on ED at 3.0%. The vat has been revised to 14.5%. This has been considered in arriving at the material cost.
10. The Schedule of rates is "FORD" inclusive of all applicable duties, taxes and freight & insurance charges.

LABOUR CHARGES

1. The labour charges worked out earlier were based on the labour charges considering that the works were being executed by ESCOM's departmentally using departmental men, vehicle and T&P materials.
2. The labour charges in the Schedule of Rates are updated during every revision considering the difference in labour index of the GOK issued by Directorate of Economics and Statistics year on year.

3. The labour charges specified in the Common SR-2010 was based on the labour index 3944 which was effective during FY-2010-11.
4. The present GOK labour index is 4644 which is 17.24% more as compared to common SR 2010-2011.
5. The agencies are pleading that the above labour charges are not workable as they have to engage their own vehicles, maintain the labour during nonworking periods, and many a times the works cannot be carried out for 8 hrs. in a day due to various reasons such as rain, LC problems, local field problems, Traffic Hazardous etc.,
6. ESCOM's officers are also expressing that there was no response for the tenders floated and LEC's are not accepting labour awards at the prevailing rates.
7. Hence the labour charges are increased by 40% over and above the common the SR labour charges of 2010-11.
8. However this 40% rise has not been applied in TOTTO but applied suitably after reviewing the prevailing labour charges. For example for cable laying the prevailing rates are continued and for AB Cables only 20% increase is proposed over and above prevailing rates.
9. The prevailing special locality allowance is continued.
10. Additional 10% additional labour charges towards breakdown works and works which are hazardous in nature have been provisioned.
11. **Ganga Kalyana Works and Drinking Water works.** The Ganga Kalyana Works and Drinking Water works have to be completed on war footings. The above works involves only 1 to 2 pole and 3 to 5 pole works. The agencies have to deploy the entire works gang (Minimum of 10men, Supervisor and vehicle). The works are scattered over vast areas, and some times at isolated places and involves considerable distance of travel from the head quarters. For this work the prevailing labour charges paid as per SR is not workable. **Hence special labour charges for 1 to 2 pole and 3 to 5 pole works have been separately provided exclusively for Ganga Kalyana and water works.** This is not applicable for any other type of work including E&I works.
12. **10% Additional labour charges:** For attending to the works in hazardous installations 10% additional labour charges is provided. **However this additional 10% shall be paid with the specific approval of the jurisdictional Executive Engineer.**
13. KPWD rates have been adopted for civil works. KPTCL SR is adopted for sub-station works.

14. Based on the above procedure the draft common SR 2012-13 prepared was both material and labour placed before the SR Committee meeting held on 31.10.2012. After deliberation and discussion the same was approved.
15. The following suggestions made by ESCOMs are approved and included :
- a. A separate bill of materials for LT wiring kit suitable for 25 & 63kVA Transformers using 70 & 95 sq.mm lead wire respectively as proposed by MESCOM is included.
 - b. Separate cost data sheet for 33kV System is included.
 - c. ESCOM's are authorized to fix suitable floor prices for scrap materials.
 - d. The limit of purchase of small materials in labour awards is increased from 5% to 10%
 - e. Employees cost to be provided in the estimates is revised to 20% of the total labour charges.

STATUTORY PAYMENTS

- a. The prevailing rates of inspection of works revised vide No: E.N.71 EBS 2007, dated: 28.08.08 by Energy Department, Government of Karnataka and are duly enclosed in SR and instructed to include the relevant rates of Electrical inspectorate charges in all estimates and DPRS to be prepared. Whenever the inspectorate charges are revised the same shall be followed.
- b. Road cutting, footpath cutting charges etc., payable to civic bodies shall be included in the estimate as applicable.

GENERAL GUIDELINES

- a. The Common SR 2012-13 will come into effect from 12.03.2013. This schedule of rates is not applicable to REC works.
- b. The squirrel ACSR conductor shall not be used for any new works (B.O. No. B19/6723/95-96/21.06.2000 of KEB.
- c. The Average span for new 11 KV lines in Urban areas shall be 40 Mtrs. In Rural areas the average span length shall be 50 Mtrs. However the average span will be 60 Mtrs. in respect of lines drawn to IP Sets.

Minimum size of the conductor to be used: (A) 11 KV lines:

Minimum size of the conductor to be used for all new 11 KV lines shall be Rabbit ACSR only.

(B) LT lines:

- a) **Urban areas:** Minimum size of conductor to be used for phases and neutral shall be Rabbit ACSR conductor.
- b) **Rural areas:** The minimum size of conductor to be used shall be Weasel for phases and neutral.
- c) **Only Weasel** Conductor shall be used for **Street Light Control, Gangakalyana and water works.**

(C) Usage of Poles:

1. Only RCC poles shall be used for dead ends, DP structures, Transformer Centers and Anchor Points.
2. PSC / PCC poles shall be used as intermediate poles.

(D) Usage of Transformers:

1. Where ever Dry type Transformers / compact sub-stations are provisioned in the estimate / used in the field the prospective consumer shall maintain the equipments for the entire life time.
 2. In all Self Execution works provision shall be made for BEE 3 Star or Higher Rated Transformers only. Provision for Conventional Transformers may be made for 250kVA and above capacity.
8. Material code number for all materials have been provided in the SR and the same has to be used while preparation of the **estimate and in the indents.**

9. All the field officers and inspecting officers should ensure that the materials used shall conform to the relevant IS specifications and the works executed are in accordance with the approved drawings / stipulated norms. The UG cable/PVC wires used for the work shall carry ISI markings.
10. Guy set includes Anchor Rod, Turn buckle, Guy wire, Strain insulator, Guy clamp with Bolts, Nuts and Washers.
11. As per Government electrical inspectorate order No. CEG/D/T/13306/86-87 dated: 17.12.1986, E.G. Stirrups shall be used in the following locations:
 - a) Within the town / village limits.
 - b) In the factory premises.
12. **Provision for ACSR Conductor:**
 - a) ACSR conductor in the cost data sheet includes an additional quantity of 1.5% of the requirement to cover the sag, binding wire for binding conductor on the insulators and jumper connections.
 - b) While working out the cost data sheet provision has been made for all the materials and hence no separate provision is made for conductor accessories.
 - c) All the necessary materials required for execution of work are included in the cost data sheet. Hence contingencies at 2% on the estimate cost is only to take care of unforeseen materials and labour and shall be paid at actual, only when incurred, with the specific approval of the Executive Engineer, by way of issue of O.M.
13. Provision for inspectorate charge shall be made as a separate item in the estimate as per the applicable rates. The current applicable rate of inspectorate charges is provided in the SR.
14. For short lines less than 1 KM, the estimates shall be prepared as per actual requirement of the materials.
15. **CONCRETING:**
 - a. Concreting of poles shall be taken up depending on soil conditions. Separate provision has to be made in the estimate, at the rates provided in the SR.
 - b. 1:4:8 cement concrete has to be provided for base concreting,
 - i. e., for leveling the ground.

- c. 1:2:4 cement concrete has to be provided for concreting around the pole, foundation, superstructure, coping etc.,.
16. All transformers above and inclusive of 25 KVA capacities are to be provided with GOS and HG fuse units.
17. As per Board order No. KEB/308/3/(82-83) dated:25.02.1993 of KEB and as per the decision of Technical Committee meeting held on 25.06.1993, 25/63/100 KVA transformer shall be provided with LT protection kit. Transformers with 250 KVA capacities and above shall be provided with LT distribution box with MCCB. In city limits transformers with 100 KVA capacity shall be provided with LT Distribution Box with MCCB, the rate for which has been furnished in the SR.
18. Cost data sheets for providing HT< over head lines, Aerial bunched cables, Distribution Transformers centers for 25/63/100 KVA on single 9 Mtr. RCC poles of square section, RLM unit for 25/63/100 KVA Transformer centers, compact RMUs & package sub-stations have been worked out and included in the SR for easy reference. However any modification or addition / deletion may be considered depending on the field conditions.

NOTE:

1. As per the CEA directions Transformers of capacity more than 25kVA has to be erected on DP structures only.
2. Correspondence has been made with CEA regarding erection of Transformers on 11 Mtrs. Spun Poles and till such time the final directions are received the prevailing instructions in force in respective ESCOM's shall be followed.
3. The LEC's carrying out works on labour contract basis are authorized to purchase small items other than poles, conductors, transformers, lightning arrestors and GOS at SR rates wherever the execution of the work is held up due to non availability of such materials provided the cost of such purchase limited is increased from 5 to 10% of the total estimate cost.
4. If the scrap value of the cable proposed to be released is less than the sum of estimated labour for such release, Depreciated value of the cable, road cutting charges payable to BMP and other civic bodies, then the releasing of the cable need not be resorted to. Otherwise the releasing work has to be taken up as per the prevailing rates in SR.

5. Labour charges for system improvement works such as replacement of poles, replacement of conductor etc., have been provided separately.
6. Labour charges for releasing of materials shall be at 90% of the cost of erection. (Please see Corporate Office circular No. BESCOM/BC-35/07- 08/CYS-86/DT: 23.10.07) (See page No _____)
7. While executing the reconductoring work the released conductor shall be returned to stores as credit in accordance with circular No. BESCOM/GM (T)/BC-20/F-664/05-06/CYS-174, Dt: 10.01.06. (See page no. _____)
8. The following additional components have to be included while preparing estimates for Distribution works which are executed on turnkey / partial turnkey basis:
 - a) Service tax @ 12.36% on labour cost.
 - b) Works contract tax.(if applicable)
 - c) Transportation cost from Stores to site @ 2% on materials cost.
 - d) Watch and ward cost @ 1% on material cost.
 - e) Insurance charges @ 1% on material cost against theft & accidents.
 - f) Performance guarantee and loss of interest on margin money for Bank Guarantee (BG) @ 2.5% of the value of BG.
 - g) Statutory charges as per actual (For Inspectorate, Civic body etc.,)
 - h) Compensation cost as per approved norms for tree cutting, crop insurance etc.
9. In estimates to be executed on labour contract basis, provision for Provident Fund charges and ESI on Total Labour Charges at 13.61% shall be included.

IMPORTANT POINTS

Materials:

1. The rates in respect of items both material & labour, which are not found in this schedule of rates, but need to be provided in estimate may be obtained from the office of Chief Engineer (Electy.,) T&P, Kaveri Bhavan.
2. The schedule of rates is "FORD" inclusive of all applicable duties, taxes and freight & insurance charges.

Labour charges:

1. **Component of labour charges:-** The labour charge does not include any additional components.
2. The estimate shall be prepared with suitable provision for providing labour charges towards both digging of pits and erection charges. However combined rates are readily available in Page No
3. The additional labour charges towards locality allowance break down charges and works in hazardous installations shall be included as applicable.
4. **Ganga Kalyana and water works:-**
 - a. Special labour charges for 1 to 2 pole and 3 to 5 pole works have been separately proposed exclusively for Ganga Kalyana and water works.
 - b. This is not applicable for any other type of work including E&I works.
 - c. These rates are applicable only when 1 to 2 pole and 3 to 5 poles are involved and no other associated works.
 - d. Estimates shall not be split to show the pole works and Transformers works etc., separately to claim these special labour charges.
 - e. Certificate has to be furnished by the section officer who prepares the estimate that the estimates are not split to claim the above labour charges.

3. Additional Labour Charges.

- a. **BREAK DOWN WORKS:** For attending to the BREAK DOWN works for speedy restoration of Power Supply. Payment of 25% additional Labour charges specified is continued. (However this additional

25% shall be paid with the specific approval for the Executive Engineer by way of O.M and shall not be paid merely because it is provisioned in the estimate).

- b. **Hazardous installations:- 10% Additional labour charges:** For attending to works in hazardous installations 10% additional labour charges is provided. **However this additional 10% shall be paid with the specific approval of the Jurisdictional Executive Engineer.**
- c. **Special Locality allowance:-** special locality allowance at the rates noted shall be given over and above the basic labour rates only (not on (a) & (b) specified above) for the listed areas.

STATUTORY PAYMENTS

- a. The prevailing rates of inspection of works revised vide No: E.N.71 EBS 2007, dated: 28.08.08 by Energy Department, Government of Karnataka and are duly enclosed in SR and instructed to include the relevant rates of Electrical inspectorate charges in all estimates and DPRS to be prepared.
- b. Road cutting, footpath cutting charges etc., payable to civic bodies shall be included in the estimate as applicable.

MD, KPTCL
Chairman of Common SR 2012-13