

**Common Schedule of Rates 2016-17
(With Effective from 10.01.2017)**

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 closure to realistic which will help ESCOMs to obtain to realistic rate whenever tenders are invited.
- 2.0** After the formation of ESCOMs 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 Dept, 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 ESCOMs.
- 3.0** Accordingly Common SR across all ESCOM's have been adopted as under
- a. 1st Common SR – with effect from 01.08.2009
 - b. 2nd Common SR – with effect from 01.07.2010
 - c. 3rd Common SR – with effect from 01.05.2012
 - d. 4th Common SR – with effect from 20.11.2014

Procedure adopted for Preparing Common SR 2016-17

- 4.0** The Government of Karnataka vide letter number EN 68 VSC 2014 Dt: 20.08.2014 has constituted the Common SR committee comprising of :
1. Sri Rajendra Cholan, Managing Director, BESCO, B'lore : Chairman
 2. Sri Nagesh H, Director (Technical), BESCO, B'lore : Member
 3. Sri K. Ramakrishna, Director (Technical), MESCOM, Mangalore : Member
 4. Sri Mahanthappa K.T, Director (Technical), CESC, Mysore : Member
 5. Sri Rajappa, Director (Technical), HESCO, Hubli : Member
 6. Sri Neelya Naik R. L, Director (Technical), GESCOM, Gulbarga : Member
 7. Smt. G Sheela, GM (Ele), QS&S, BESCO : Convener

Representatives of KSLEC, Total and Partial Turnkey agencies were also invited to the meeting to obtain their opinion.

The CSR Committee met on 26-9-2016 at Bengaluru and issued guidelines for framing CSR 2016-17. The draft Common SR 2016-17 was prepared in accordance with the directions issued in the meeting and the was circulated among all ESCOMs.

The second CSR 2016-17 meeting was held on 25.10.2016 at Mangaluru and the draft common SR 2016-17 which was circulated among all ESCOMs was tabled for discussion before the following members.

Sl. No.	Name of the Officer	Designation
1	Sri Rajendra Cholan,	Chairman of CSR 2016 Committee
2	Sri Chikkananjappa	Managing Director, MESCOM
3	Sri Sakkari	Managing Director, GESCOM
4	Sri Muniraju	Managing Director, HESCOM
5	Sri Nagesh H	Director (Technical), BESCOM - Member
6	Sri Ramakrishna,	Director (Technical), BESCOM - Member
7	Sri Mahanthappa K.T	Director (Technical), CESC - Member
8	Sri Rajappa, Director	Director (Technical), HESCOM - Member
9	Sri Neelya Naik R. L,	Director (Technical), GESCOM - Member
10	Dr. R.C. Chetan	Director Finance, BESCOM
11	Smt G. Sheela	GM(QS&S), Convenor of CSR Committee

The methodology adopted for revising material and labour charges were explained. The CSR 2016-17 committee deliberated and discussed on the common SR 2016-17. Based on the discussions held, the CSR 2016-17

committee further directed to revise the draft CSR 2016-17 and to circulate the same among all ESCOMs for verification and their comments.

The committee further directed that whenever market rates are adopted for materials which are not procured/recently procured and for equipment's for which specifications are up graded/revised the rates shall be finalized by an independent committee chaired by Director (Technical) MESCO. Accordingly the Committee has been constituted vide No. BESCO/GM(QS&S)/BC-35/16-17/2744-52 dtd: 23.11.2016. The rates to be proposed by the committee after approval will be included in the CSR 2016-17 as an addendum to CSR 2016-17.

5.0 The revised draft Common SR 2016 prepared in accordance with the directions issued in the meeting held on 25.10.2016 at Mangalore was circulated among all ESCOMs.

Concurrence has been obtained by all ESCOMs and the suggestions made by the ESCOMs have been considered.

6.0 The committee deliberated and discussed on the draft proposal placed in the meeting. The methodology adopted for revising material and labour charges were explained.

Methodology adopted for revising material prices

- **Weighted Average:** On procurement cost of materials procured by ESCOMs has been considered. **Eg.** *Amorphous Core Transformers, Dry Type Transformer 11KV GOS, Coyote & Links and ACSR, MS and GI Bolt & Nuts, DP sets.*
- **Updated prevailing SR prices using IEEMA PV has been proposed** for some materials. **Eg.** *Insulators, some of the line materials, Guy Wire & GI Wire, PG clamps, Conventional Transformers (Which are not procured), Copper Terminals, Aluminum Lugs, LT Protection Kit, 1.1KV UG cable.* IEEMA indices of November 2014 & average indices from July 2015 to June 2016 are considered for updating the prices.

- **Prorate prices:** Some of the materials for which new rates would not be derived from any of the above process the prices have been fixed on prorated basis of similar materials, **Eg.** *Weasel ACSR, RMUs & some Line Materials.*
- **Worked out Rates:** Rates have been worked out considering the raw material & conversion cost **Eg.** *Line Accessories, Cross Arms, Poles.*
- **MOP Rates:** MOP Rates have been adopted for BEE 3 Star & 4 Star Rated Transformers (Equivalent to EEL-I & EEL-II) and Rabbit ACSR conductor.
- **Committee Rates:** Independent committee will furnish the rates for materials for which specifications are modified/updated. **Eg:** *Compact Sub Stations, Ring Main Units, Meters & Metering Equipments etc.,*
- **Market Rates** have been considered for some of the materials like AB Cables, HT and LT UG cables where the rates variations are marginal.
- **KPWD Electrical SR Rates** have been adopted for some materials like straight light fittings and internal wiring for buildings.
- **KPWD Civil SR Rates:** have been adopted for concreting and other civil works.
- **Rates for 33KV system:** Rates derived from weight average of procurement rates and updated rates using IEEMA PV are considered for 33KV system works. Also KPTCL SR 2016 rates have been adopted for some of the materials.
- **Existing rates** have been continued **Eg.** *11mtr Spun Pole, 9mtr PSCC pole 300Kg Working Load, LT Distribution box, some of the materials, Aluminum connectors, Jointing & Termination kits for XLPE cable, T&P materials, PVC Pipes and bends, LT & HT CTs, Conventional RMU, etc.,*
- **For Scrap Materials:** weighted average of E-auction rates of BESCO during 2014-16 has been considered. However the rates 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 CEE/T&P/KPTCL – 699/-7013 dt:15.11.2012.

NOTE:

1. The prevailing excise duties and taxes as applicable for materials have been considered in arriving the material cost.
2. The schedule of rates for materials is "FORD" inclusive of all applicable duties, taxes and freight & insurance charges.

7.0 Methodology adopted for revising Labour

- A General increase of 13% is considered on Labour index of 6537 as per circular No. DES/SIP/PWS/01/2016 Dt 09-02-2016 issued by Directorate of Economics and Statistics, Bengaluru as compared to 5780 considered for Common SR 2014-15. However overheads on labour charges have been covered while framing CSR 12-13.
- The labour charges have been revised for LT Re-conductoring, stringing of LT AB cable and erection of 11mtr spun poles as under:
 - a) Separate rates for LT Re-conductoring works with 3% sag are provisioned.
 - b) Stringing rates for LT AB cable is also provisioned on par with stringing of HT AB Cables.
 - c) Erection charges for erecting 11mtr spun poles using machinery.
 - d) Special labour charges at 45% over and above normal labour charges in respect of calamity works (When these calamity charges are allowed 10% additional labour charges towards hazardous works and 25% additional charges towards break down works are not admissible. Special locality allowance as applicable to specified areas is admissible).

Labour charges are continued for the following:

➤ Special Labour Charges for :

- 1 to 2 Poles Works &
- 3 to 5 Poles Works in respect of Gangakalyana & Drinking Works
- 1 to 4 Poles works in respect of Service Connection, E&I Works

NOTE: However when the works are awarded under RATE CONTRACT or TENDER, these rates are NOT APPLICABLE.

- Labour charges for Shifting the existing cut point conductor to the newly erected pole and dead ending of ACSR Conductor to the new pole and shifting of the pole, and shifting of the cable and other accessories to newly erected pole is included.

The following Additional Components of labour charges are continued:

- **Special Locality Allowance:** The prevailing special locality allowances are rationalized and revised including some additional places and approved to be adopted. (Please see page No.....)
- **Additional Labour Charges:** 10% Additional labour charges for works in Hazardous Locations is continued.
- **Breakdown Works:** For attending to the BREAKDOWN works for speedy restoration of Power Supply, payment of 25% additional Labour charges specified is continued.

NOTE: The above additional labour charges 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.

- **Purchase of Small Items:** The LEC's carrying out works on labour contract basis is authorized to purchase small items other than poles. Conductors, Transformers, Lighting 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.

- **Employees Cost:**

Employees cost have been continued as per the report of Director (Technical) and Director (Finance), BESCO. (However a committee has been constituted to finalise the continuation of employee's cost and other loading factors. Separate communication will follow).

8.0 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.

9.0 General Guidelines:

- a. The Squirrel ACSR conductor shall not be used for any new works (B.O. No. B19/6723/95-96/21.06.2000 of KEB).
- b. 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) 11kV 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) Life Time Guarantee:

Where ever Dry Type Transformers, Cable Entry Type Transformers, Compact Sub-Stations are provisioned in the estimate/used in the field procured by the prospective consumer for self - execution works, the equipment shall be maintained for the entire life time by the consumer.

- In all Self Execution works provision shall be made for BEE 3 Star or Higher Rated Transformers only.
- 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.**
- All the field officers and inspecting officers should ensure that the materials used shall confirm 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.
- Guy set includes Anchor Rod, Turn buckle, Guy wire, Strain Insulator, Guy clamp with Bolts, Nuts and Washers.

- 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:
 - Within the town/village limits.
 - In the factory premises.

10.0 Provision for ACSR Conductor:

- a. ACSR conductor and **AB cable** 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. **However 3% requirement to cover sag binding as above is allowed for LT re-conductoring work.**
- b. While working out the cost data sheet, provision has been made for all the materials including general conductor accessories. In case of requirement of any special accessories like wedge clamp, strain clamp etc., separate provision has to be made for such materials.
Note: The cost data sheets prepared is for straight lines and estimates/DPR have to be prepared as per actual field requirement. Bills shall be passed for the actual work carried out duly enclosing joint inventory and sketch and not on cost data sheet basis.
- 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 provisioned only to take care of unforeseen materials and labour and shall be paid as per actual if incurred, with the specific approval of the Executive Engineer, by way of issue of O.M.

11.0 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 Common SR.

12.0 For short lines less than 1 KM, the estimates shall be prepared as per actual requirement of the materials.

13.0 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.
- c. 1:2:4 cement concrete has to be provided for pole concreting coping etc.,.

14.0 All transformers above and inclusive of 25 KVA capacities are to be provided with GOS and HG fuse units.

15.0 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 capacities shall be provided with LT Distribution Box with MCCB, the rate has been furnished in the Common SR.

16.0 Cost data sheets for works of providing HT & LT Over Head Lines, Aerial Bunched Cables, Distribution Transformers Centers for 25/63/100 KVA on single 9 Mtr. RCC poles of Square Section & DP Sets, RLM unit for 25/63/100 KVA Transformer Centers, Compact RMUs & Packaged Sub Stations, HT UG Cables have been worked out and included in the Common SR for easy reference. However any modification or addition/deletion may be considered depending on the field conditions.

NOTE:

1. As per the CEA guidelines, Transformers of capacity more than 25kVA have to be erected on DP structures/Plinth 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. **Depreciation:** If the depreciated value of the cable proposed to be released is less than the sum of estimated labour for such release, road cutting charges payable to BMP and other civic bodies, then the releasing of the cable need not be resorted to.
4. **Releasing Labour Charges:** Labour charges for releasing of materials shall be at 90% of the cost of erection. (Please see Corporate Office circular No. BESCO/BC-35/07-08/CYS-86/DT: 23.10.2007)
5. **Returning of the ACSR Conductor:** While executing the re-conductoring work the released conductor shall be returned to stores as credit in accordance with circular No. BESCO/GM (T)/ BC-20/F-664/05-06/CYS-174, Dt: 10.01.2006. (See page No____)
6. For inclusion of the additional components in the estimates for various types of works a committee has been formed. A communication will follow after finalisation.

17.0 Important Points

➤ **Materials:**

- 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 Quality, Standard & Safety, Corporate Office, BESCO or from the

concerned Corporate office of ESCOMs. When the rates are approved at ESCOMs the same shall be intimated to GM(QS&S) BESCO for incorporating the same in the CSR 2016-17.

- The schedule of rates for materials is "FORD" inclusive of all applicable duties, taxes and freight & insurance charges.

➤ **Labour charges:**

- **Component of labour charges:** The labour charge does not include any additional components. However overheads on labour charges have been covered while framing CSR 12-13, when the labor charges were revised by allowing 40% increase as against 17.24% admissible as per labour index.
- The additional labour charges towards special locality allowance break down charges and works in hazardous installations etc., shall be included in the estimates as applicable.
- The special locality allowance is allowable only on basic labour charges and not on additional labour charges like works at hazardous installation and break down charges etc.
- **Ganga Kalyana and water works: (Cost Data Sheet 44, 45& 46)**
 - 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.
- Consolidated Labour charges for shifting of conductor terminations and shifting of service main cables in respect of pole replacement work have been provided vide cost data sheet 47-48.

NOTE: The above special Labour charges are applicable for works awarded on labour contract only and WHEN THE WORKS ARE AWARDED UNDER RATE CONTRACT AND TENDER THESE RATES ARE NOT APPLICABLE

- 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.

G. Sheela
10/1/2017

**(G. SHEELA)
CONVENOR SR COMMITTEE &
GENERAL MANAGER (ELE.), Q, S&S,
BESCOM.**