

Further, other than 1912 helpline, HESCOM consumers can also log complaints or any suggestions through,

- 1) Email ID: [customercare@hescom.co.in](mailto:customercare@hescom.co.in)
- 2) Facebook account: <https://facebook.com/Hescom Orgn>
- 3) WhatsApp Number: 9480883899
- 4) Twitter Account: <https://twitter.com/HubliHescom>
- 5) Web site : <https://hescom.karnataka.gov.in/>

In order to encourage use of 24x7 centralized consumer service center, HESCOM has frequently advertising the central complaint No 1912 in the various editions of newspapers. Further, HESCOM is also utilizing the forum of various organizations to display banners indicating the consumer service center call No. 1912. Awareness programs of the CCC toll free no.1912 is taken up under various activities of DSM such as Distributed pamphlets, Vijayavani "Property Expo 2019", Radio Programs etc. for the information of public and to ensure that all the complaints of consumers are registered through the Centralized Consumer Service Centre and also through above said social media platforms. Further, HESCOM will strive continuously to improve services to consumer.

#### 9) Directive on Energy Audit:

##### Commission's Views:

The Commission had directed HESCOM to submit the monthly energy audit reports of cities / towns with detailed analysis regularly, to the Commission. Commission notes with displeasure that HESCOM has not submitted the monthly energy audit reports with detailed analysis regularly to the Commission. The HESCOM needs to conduct energy audit of identified cities / towns and on the basis of energy audit results, initiate necessary action to reduce the distribution losses and improve collection efficiency so as to achieve the targeted AT & C loss of less than 15 per cent in all towns. The HESCOM is directed to conduct such energy audit and submit compliance thereon every month, regularly to the Commission.

As regards energy audit of DTCs, the Commission notes that, the HESCOM has not submitted the abstract of details of total number of DTCs existing, number of DTCs metered and the action plan for metering the remaining DTCs, energy audit not conducted, reasons for not conducting the metered DTCs etc.,

For the data furnished in the tariff filing, despite completion of metering of 64,241 DTCs in the area of HESCOM, the HESCOM is furnishing the analysis for only



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around 19,000 DTCs (29%). Whereas, HESCOM has furnished the analysis of energy audit of 25,179 DTCs. HESCOM has failed to furnish the energy audit reports for the remaining 71% of DTC's metered in its area, which are mostly provided with Automatic Metering Infrastructure (AMI). HESCOM has failed to furnish the similar analysis for RAPDRP towns. HESCOM is stressing on the problems with communication, lead wire burnt out, MNR etc., towards non-conducting of energy audit. Similarly, HESCOM has not furnished the information on the energy audit of all the 11 kV lines operating in its jurisdiction.

It is observed that, HESCOM is mechanically repeating its claim of resolving the issues relating to communication and software from the last few years by way of issuing notices to the concerned agencies, integration issues etc., It is evident that the HESCOM is not serious about conducting energy audit of 11 kV lines and DTC level energy audit and run its business on commercial principles. HESCOM has not acted promptly in quickly resolving the issues relating to tagging of consumers if any / communication / software integration and in adopting accounting / auditing of energy as its core function, in spite of spending huge money on RAPDRP project, the TRM, DTC metering and many other software. The stakeholders have also questioned during public hearing, the rationale of incurring huge expenditure on DTC metering without any benefit to the system or the consumers. **The action taken by the HESCOM in the matter, so far, has not been satisfactory and the Commission views with displeasure the delay in completing the tagging of consumer installations, integration of various software, inaction of the agencies in resolving communication etc., and taking up energy audit of all the feeders and metered DTCs.**

The HESCOM is directed to address all the outstanding issues relating to energy audit of all the 11 kV feeders, DTCs, and take up the energy audit therein besides attending to the energy audit of major Cities / Towns and take remedial measures for reducing energy losses in the high loss-making distribution areas. The compliance in respect of energy audit conducted, with the details of analysis and the remedial action initiated to reduce loss levels shall be regularly submitted to the Commission **on a quarterly basis.**

Though, the Commission has directed HESCOM to conduct workshops at the Division level, for educating the officers of all cadres on the importance of conducting the energy audit, feeder-wise, DTC-wise etc., and motivating them to take action to reduce the losses in their areas, address issues relating to consumer tagging, recognize the importance of energy metering and maintaining them in good condition, strictly servicing all the installations by providing appropriate energy meters, providing and

  
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Navanagar, Hubballi - 580 025

maintaining energy meters to the DTC's, Metering of Streetlight installations, Replacement of electro-mechanical meters etc., HESCOM has failed to report compliance of the direction and intimate the action initiated, either in the Tariff filing or through other modes. **An action plan on conducting such workshops shall be submitted by HESCOM within 60 days from the date of this order.**

The feeder-wise and DTC-wise energy audits shall be reviewed in the review meetings at the Circle level every month. Copy of the proceedings of such meetings shall be submitted to the Commission, for information and further review.

**The Commission does not find the reasons submitted by HESCOM for not conducting the energy audit in respect of 11 kV lines, DTC's and LT lines, justifiable and directs HESCOM to submit a consolidated energy audit report for the FY20 before 30<sup>th</sup> June, 2020, as per the formats prescribed by the Commission.**

#### Compliance by the HESCOM:

The Energy audit of 16 towns which have population of more than 50000 is being carried out in HESCOM. The below mentioned matrix shows average energy losses recorded from FY-20 & FY-21 up to Aug-2020 in these 16 towns.

**Table -49: Loss Level in Towns/Cities.**

Year	No. of towns Monitoring	No. of Town/ Cities loss under				
		<10 %	>10, <=15	>15, <=20	>20, <=25	>25
FY -20 (2019-20)	16	9	7	-	-	-
FY -2021 (2020-2021) Consolidated Up to Aug-2020	16	12	4	-	-	-
Apr-2020	16	14	2	-	-	-
May-2020	16	2	12	1	-	1
June-2020	16	10	6	-	-	-
July-2020	16	10	6	-	-	-
Aug-2020	16	10	6	-	-	-



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Application for Approval of Annual Performance Review for FY-20 and Approval for ARR & ERC FY-22 and Tariff Filing for FY-22.

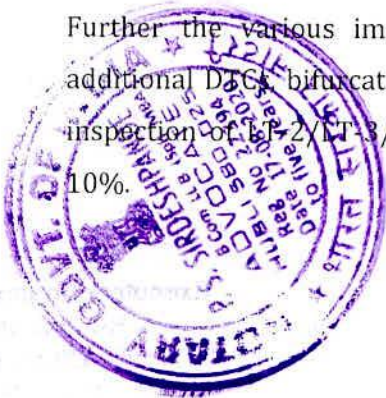
Year	Name of the Town / Cities where loss range is			
	Below 10%	>10,to15	15-20%	Above-20%
FY -20 (2019-20)	Hubballi, Dharwad, Haveri, Sirsi, Dandeli, karwar, Belagavi, Bagalkot, Ilkal	Gadag, Ranebenur, Gokak, Nippani, Jamakhandi, Rabkavi-Banahatti, Vijayapur	-	-
FY -2021 (2020-2021) Apr-2020	Hubballi, Dharwad, Gadag, Haveri, Sirsi, Ranebennur, Dandeli, Karwar, Gokak, Nippani, Ilkal, Vijayapur Rabkavi+Banahatti, Jamakhandi,	Belagavi, Bagalkot	-	-
May-2020	Nippani, Ilkal	Hubballi, Dharwad, Gadag, Haveri, Sirsi, Dandeli, Karwar, Belagavi, Gokak, Bagalkot, Jamakhandi, Vijayapur	Rabkavi+Banahatti	Ranebennur
June-2020	Hubballi, Dharwad, Gadag, Ranebennur, Dandeli, Karwar, Gokak, Nippani, Ilkal, Jamakhandi	Haveri, Sirsi, Belagavi, Bagalkot, Rabkavi+Banahatti, Vijayapur	-	-
July-2020	Hubballi, Dharwad, Gadag, Haveri, Ranebennur, Dandeli, Karwar, Belagavi, Gokak, Nippani	Sirsi, Bagalkot, Ilkal, Jamakhandi, Vijayapur, Rabkavi+Banahatti	-	-
Aug-2020	Hubballi, Dharwad, Gadag, Haveri, Ranebennur, Sirsi, Karwar, Belagavi, , Nippani, Ilkal	Dandeli, Gokak, Bagalkot, Rabkavi+Banahatti, Vijayapur, Jamakhandi	-	-

As per above data for FY-20 out of 16 towns the loss level in 9 towns are less than 10%, 7 towns loss is between 10-15% and in FY-21 (Up to Aug-2020) out of 16 towns the loss level in 12 towns is less than 10% & 4 towns loss is between 10-15%.

As per the above Table Town Energy Audit of 16 Towns up to August-2020 is furnished, further month wise energy audit reports of Cities/towns will be submitted to Hon'ble Commission regularly.

The various improvements works such as replacement of electromechanical meters by static meters and replacement of 10 years' age old meters work are carried out.

Further the various improvement works have been taken up such as, providing additional DGCA, bifurcation of overloaded feeders, reducing LT to HT Ratio and 100% inspection of LT-2/LT-3/LT-5 and HT- installations, to bring down the loss less than 10%.



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**DTC Energy Audit:**

Month wise	Existing DTCs	Metered DTC	No. of DTCs for which DTC wise Energy audit done	<5%	5% to 10%	10% to 15%	15% to 20%	>20
Apr-2020	224086	64338	23126	5872	5881	5937	1477	3959
May-20	225028	64339	19443	5343	4972	5306	1455	2367
June-20	225820	64393	22482	5919	5986	6508	1597	2472
July-20	227271	64497	22881	5563	6485	6339	1783	2711
Aug-20	227800	64511	24315	6098	7151	6567	1694	2805

**NOTE:**

- 1) The details furnished above are up to Aug-2020 input Sept-2020 DCB.
- 2) Out of 2,27,800 existing DTC's 1,50,536no's of DTC's are fed from EIP feeders which need not to be metered.

**Feeder wise Energy Audit**

There are 3455 Nos. of 11kv feeders in the HESCOM Jurisdiction. All the feeders are monitored continuously by way of feeder-wise energy audit. Monthly audit of all the feeders are carried out to monitor the distribution loss of each feeder.

Further awareness is being created by educating all the field staff through trainings regarding importance of conducting energy audit. Monthly meetings have been carried out to monitor feeder wise energy audit and all the Circle/divisional/Sub divisional officers are directed to conduct meetings at their level to educate all the officers/officials regarding energy audit. Also continuous effort is being made towards trajectory reduction plan as directed by Hon'ble KERC and other nodal agencies of Ministry of Power and Energy.

The 11 KV feeder details (as on 31.08.2020) and the Audited feeder details Aug-2020 input September-2020 DCB are given below.

**11 KV FEEDERS DETAILS (as on 31.08.2020)**

Total number of 11 KV feeders				
Urban	Rural	Industrial	Exclusive IP sets Feeders	Total
422	882	131	2020	3455

**Audited feeder details Aug-2020 input September-2020 DCB**

11 KV Feeders Audit							
No of Audited feeders	Balance to be audited feeders	Distribution loss					Total
		<5%	5-10%	10-15%	15-20%	>20	
3374	81	143	273	2924	23	11	3374



*(Signature)*  
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Further division wise, Month wise, Yearly Annexure A & B for the year 2019-2020 as per format prescribed by the commission, vide letter No : KERC/D/137/14/91 dated 20.04.2015 has been submitted through E-Mail dt: 17.11.2020 and abstract copy (Annexure 4) of the same has been enclosed for your kind reference.

### DTC Metering Works:

1. HESCOM has taken up DTC Metering in two Phases (Phase-I & II) in all the Non-RAPDRP Town Areas and Rural Areas in all O & M Divisions.
  2. As per the DWA, the scope of the work involves; Supply, Installation, Commissioning and Maintenance of Composite Thread through Type Meter.
  3. Online transfer of Data from Thread through type meter (meter is having in-built Current Transformer (CT), Modem, SIM. Modem and SIM for online data transfer) to the centralized server by establishing communication.
  4. The agency is maintaining server and has hosted web based application. URL (address of the web application, 125.16.20.2/ HESCOM), user login id and password have been given to the concerned HESCOM officials.
  5. Metering of all the 40793 Nos. of DTCs is completed under Phase I & II Details of the award and progress is annexed below as Annexure -5
  6. Agency has attended network and other issues and the Communication was established for 33947 DTCs in the centralized server during the month of Sept-2020. But there was heavy rainfall in the month of July and August 2020, severe flood affected the northern districts of Karnataka state which comes under HESCOM Jurisdiction. Belagavi, Dharwad, Bagalkot, Vijayapura & Uttar Kannada districts are affected by Flood and several villages & towns DTCs are submerged. Due to which meters and lead wire of some the DTCs got damaged and also Modem of the some of the DTCs is damaged which affected the Network connectivity which will be addressed at the earliest.
  7. Based on Data of Load, Consumption, Phase wise Voltage and Currents available in web based application, following action is being taken by the Field officials;
    - a) Analyses of imbalance in load, Voltage and current on each phase of the DTC.
    - b) Shifting of LT load from one to another phase for balancing the load.
    - c) Providing additional DTCs/Augmentation of DTCs to avoid overloading of DTCs which has resulted in decrease in Failure of DTCs.
- Improvement works such as Re-Conductoring of HT/LT lines.



8. Further, implementation of web based TRM software for Non-RAPDRP areas of HESCOM is awarded to M/s. N-Soft (India) Services Pvt. Ltd., Bengaluru by SEE (T&P) HESCOM.
9. Both the agencies have to integrate the solutions i.e. M/s. AFTL will transfer DTC meter consumption to M/s. N-Soft for DTC wise energy auditing.
10. The following are the remedial measures initiated to reduce losses in those DTCs wherever the loss levels are at higher levels;
  - i. All the field officials are directed to check the mapping of DTCs to Feeders and installations to DTCs and rectify the same.
  - ii. With regard Negative and High Loss DTCs, It is directed to match the reading of DTCs and installation mapped on the respective DTCs to make sure readings are carried out on same day
  - iii. Calibration of Meters, Replacement of MNR, and Burnt out Meters.
  - iv. HESCOM has taken up the work of replacement the existing Electro-mechanical /High Precision Meters by static Meters under DDUGJY and IPDS schemes.
  - v. Energy Report of DTCs with higher loss levels are shared with HESCOM MT and Vigilance staff to check any authorized connections and correctness of the Meter.
11. Due to software issues while integrating the data and mismatch in DTC Code, Energy Audit of the some of the Metered DTCs is not being done. Issue will be resolved by the HESCOM in coordination with M/s. Asian Fab Tech and the System Provider viz., M/s. N-soft service private Ltd at the earliest.

**ANNEXURE-5**  
**DTC METERING PROGRESS**

Sl. No	Division	As Per DWA			Work Completed		
		Phase 1	Phase 2	Total	Phase 1	Phase 2	Total
1	Hubli	1,171	166	1,337	1,171	166	1,337
2	Dharwad	1,199	286	1,485	1,199	410	1,609
3	Gadag	940	1,097	2,037	940	1,888	2,828
4	Ron						
5	Haveri	2,262	457	2,719	2,262	88	2,350
6	Ranebennur	503	1,050	1,553	503	1,050	1,553
7	Karwar	1,406	1,494	2,900	1,406	1,494	2,900
8	Dharwad						
9	Sirsi	1,839	1,748	3,587	1,839	1,748	3,587
10	Bhatkal	2,508	313	2,821	2,508	260	2,768
	Katapurba	1,369	447	1,816	1,369	430	1,799
	Bhoholgal	974	625	1,599	974	643	1,617
	Shikoti						
		809	1,378	2,187	809	1,181	1,991



**Executive Engineer (EI)**  
**RA Section**



Application for Approval of Annual Performance Review for FY-20 and Approval for ARR & ERC FY-22 and Tariff Filing for FY-22.

15	Athani	742	3,101	3,843	742	995	1,737
16	Raibag	680	3,692	4,372	680	5,861	6,540
17	Bagalkot	3,288	236	3,524	2,086	0	2,086
18	Jamkhandi	402	283	685	402	483	885
19	Mudhol	441	49	490	441	438	879
20	Vijayapura	497	242	739	497	402	899
21	Indi	577	907	1,484	577	1,138	1,715
22	Basavana Bagewadi	1,086	529	1,615	1,086	627	1,713
<b>Total</b>		<b>22,693</b>	<b>18,100</b>	<b>40,793</b>	<b>21,491</b>	<b>19,302</b>	<b>40,793</b>

**Annexure -5A**

**HESCOM DTC Metering Communication status for the month of September - 2020**

Sl No	Division	Work Progress	Communication	Balance
1	Hubli	1337	1248	89
2	Dharwad	1584	1376	208
3	Gadag	2543	2298	245
5	Haveri	2350	2087	263
6	Ranebennur	1553	1335	218
7	Karwar	2900	2019	881
9	Sirsi	3304	1492	1812
10	Belgaum	2768	2465	303
11	Ghataprabha	1799	1644	155
12	Bailhongal	1617	1394	223
14	Chikkodi	1990	1761	229
15	Athani	1737	1257	480
16	Raibag	7204	6341	863
17	Bagalkot	2089	1935	154
18	Jamkhandi	823	736	87
19	Mudhol	879	780	99
20	Vijayapura	888	753	135
21	Indi	1715	1504	211
	Basavana Bagewadi	1713	1522	191
<b>Total</b>		<b>40793</b>	<b>33947</b>	<b>6846</b>

**RAPDRP towns Energy Audit:**

The AMR system for RAPDRP towns DTC was awarded for fixing of modems to M/s Antalgics (excluding Belagavi town) and the AMR system for Belagavi town RAPDRP DTC was awarded for fixing of modem to M/s Amitech respectively.

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2. Supply/ installation/Commission of GPRS Modems fixed at Feeder meter, Boundary meter, HT meter and DTC meters is 17014 by both vendors.
3. Earlier during Jun-2017, Communication status of DTC was 59.40%. But due to field problems and improper data communication - SIM card failures and non-communication, modem failure and non-communication of data from meters are adding up to improper energy audit reports.
4. Net Input Energy is updated as per the field data provided by HESCOM to M/s Infosys and the Energy Sales, Demand and Collection data is updated as per DCB based on the Customer Tagging available in CCB data. The same data is monitored by PFC in NPP portal.
5. The contract period of M/s Analogics and M/s Amitech for AMR system has expired in Sept-2019 & Mar-2019 respectively. Both the firms were not ready to extend the contract period. BESCOM being the nodal agency for RAPDRP & IPDS project has been requested to share the action taken to capture DTC meter data of RAPDRP towns.
6. Instructions were issued to AEEs to take necessary action to decrease AT&C losses in RAPDRP towns.

**10) Directive on Niranthara Jyothi - Feeder Separation:**

**Commission's Views:**

The Commission notes that the HESCOM has commissioned all the feeders taken up under NJY scheme phases. Therefore, the HESCOM is directed to carry out the feeder-wise analysis to ensure that the objectives set out in the DPR are accomplished.

Further, the HESCOM shall ensure that, any illegal tapping of NJY feeders by the farmers for running their IP-sets should be stopped. Failure to stop this illegal activity will defeat the very purpose of feeder segregation works undertaken at huge cost and therefore, the HESCOM needs to take stern action on such offenders. Further, the field officers / officials who fail to curb illegal tapping shall be personally held responsible for these irregularities.

The Commission has observed an increase in IP set consumption in FY19. The HESCOM should strictly monitor the implementation of the regulated power supply scheme to IP feeders and take necessary corrective action if the same is faulty.

In view of the fact that HESCOM has segregated substantial number of feeders under different phases of NJY and other schemes / routine works, the Commission directs the HESCOM to continue to report every month, the specific consumption and the



overall IP set consumption, only on the basis of the data from energy meters installed to the agricultural feeders, in the prescribed formats. Any data furnished based on other assumptions, will not be accepted by the Commission.

The Commission reiterates its directive to the HESCOM to continue to furnish feeder-wise IP set consumption based on data from the energy meters installed to the segregated agriculture feeders under NJY, to the Commission every month.

#### Compliance by the HESCOM:

##### Phase-I & II:

In HESCOM jurisdiction at the time of execution of NJY Ph-1 and 2 there were 48 Talukas, out of which 11 Taluks in Uttara- Kannada Districts are excluded from NJY as are already provided with 24 Hrs power supply. Pilot Project has been implemented in three Talukas namely Bailhongal in Belgaum District, Shiggaon & Savanur Taluks in Haveri District. In the remaining 34 Taluks, it was proposed to implement NJY works in 2 - phases as hereunder.

- Phase-I; 242 number of feeders covering 20 Talukas.
- Phase-2; 202 number of feeders covering 14 Talukas.

Further 100% of the work is completed under Phase-I & II by the end of July, 2017.

M/s. CPRI Bangalore is appointed as third party independent evaluating agency and has been awarded with the work of inspection of 50% of feeders with detailed inventory and evaluation of NJY works with consequent benefits achieved after implementation. M/s. CPRI have opined that, NJY is more helpful in arranging quality power for 24Hrs to rural areas and development of rural areas with socio economic changes. There is reduction in peak load on the system.

M/S CPRI Bengaluru was entrusted with the work of analysis of NJY works post implementation. The benefits derived from Nirantara Jyothi Yojana are as follows:

- Consumers of villages especially students and small scale industries are much happier, since HESCOM is able to supply continuous uninterrupted quality power supply for longer duration during morning and evening peak hours.

The metered energy consumption has increased by 26.67% after implementation of NJY.

There is an increase in revenue after implementing NJY and still there is scope for increasing the metered consumption.



  
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Navanagar, Hubballi. - 580 025



- The total energy sent out has increased in case of NJY feeders. This is due to increased hours of continuous power supply and increased load growth since implementation of NJY.
- It is observed that the transformer failure rate has reduced.
- The IP sets are given three phase supply for limited hours during off peak hours. Thereby it has been observed that there is substantial decrease in the evening peak load.
- The voltage regulation which was in the range of 13% to 18% in most cases is reduced to a range of 6% to 9% which is well within the permissible limit.
- NJY has enabled the HESCOM to have better control over the agricultural loads. The farmers are happy with this arrangement since they can get assured number of hours of un-interrupted three phase power supply.
- As per the feedback obtained from various consumers such as household, commercial, educational, industrial sectors, it is observed that the consumers are happy about the more number of hours of reliable, quality power supply.

### **NJY Phase-III:**

Initially a decision was taken to take up NJY works under Phase-I & II covering 34 Talukas excluding the areas covered under RLMS. Later on it was felt necessary to take up NJY works in the areas covered under RLMS also. Hence DPRs were prepared to take up NJY works under Phase-III involving estimated cost of Rs 117.03 Crores and accordingly M/s REC have sanctioned loan to the tune of Rs 101.76 Crores. Till date **Rs. 78.50 Cr** expenditure has been booked for NJY works under Phase-III The details of works proposed are as hereunder,

No. of feeders proposed: 92

No. of villages to be covered: 575

Estimated cost in Rs Crores: 117.03

As on 31.07.2019, 92 numbers of feeders are commissioned as against the proposal of 92 feeders.



### **IP Set Consumption:**

As per directions of Hon'ble Commission in its Tariff Order dated 4<sup>th</sup> Nov 2020, the HESCOM has submitted the consumption of IP Sets based on the readings from the meters provided to 11 KV agricultural feeders at the sub-stations duly deducting the 11KV and LT distribution system losses. The 1<sup>st</sup> and 2<sup>nd</sup> quarter details of month wise, feeder wise consumption of IP sets for FY 20 from April-2019 to Oct-2019 has been sent through G-Mail dt: 21.04.2020. Further complete (all the four quarter) details of month wise/Sub

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Navanagar, Hubballi - 580 025



division wise/feeder wise consumption of all the agricultural feeders segregated under NJY scheme for FY 20 from April-2019 to March-20 is also mailed Via Gmail on 16. Oct .2020 as the data is very huge hard copy of abstract of month wise details has been submitted vide ltr No: HESCOM/GMT/EE-EMS/20-21 /10294 Dtd: 16.10.2020 for your kind needful. Further Exclusive IP set feeder-wise energy details from April-20 to July-20 has been mailed on 18.11.2020 via Gmail for your kind needful.

Further it is requested to note that HESCOM has strictly followed to provide 7 Hrs of Power supply to IP feeders. Under such circumstance, because of availability of quality supply of power on these feeders and due to increase in No of IP sets consistently, usage of IP sets has increased drastically year on year. Hence the per IP set consumption has increased even more in FY 19.

In addition to this HESCOM ensures to the Hon'ble Commission that, month wise Sub division wise feeder wise consumption of all the agricultural feeders segregated under NJY scheme based on the readings from the meters provided to 11 KV agricultural feeders shall be submitted monthly hence forth to kind self.

**Action plan for reduction of high T&D and AT&C loss in towns is presented as below.**

- 1) There are 422 No's of Urban feeders (as on Aug-2020) in the HESCOM Jurisdiction. All the feeders are continuously monitored by way of conducting feeder-wise energy audit and corrective action is being taken.
- 2) T&D losses is high due to the age-old conductor with lesser current carrying capacity. Re-conductoring of HT and LT lines have been proposed wherever conductor capacity is less by replacing higher capacity conductor for FY-21 target of 3658.62 Kms is set and LT line is 5595.52Kms is set.
- 3) Providing DTC metering to the remaining Non R-APDRP towns & village DTCs will be taken up.
- 4) Providing additional distribution transformer centers in place of overloaded DTC's under NEF scheme. Total Capital budget provision of Rs.42.74Cr is made for the above work.
- 5) Providing UG cables / Arial bunched cables in 11 KV distribution network for Belagavi, Hubli-Dharwad cities, under NEF Schemes is under progress. A budget provision of Rs.110.97 Crs is made. The above works will minimize the 11 KV losses to further lower value.

IPDS project is being implemented with an objective of further reducing losses to greater Extent. Capital budget of Rs.67.47Cr has been provisioned for the above works.



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## 11) Directive on Demand Side Management in Agriculture:

### Commission's Views:

The Commission notes that there is an undue delay in implementation of DSM scheme in Byadagi and Nippani areas of HESCOM. It was submitted in the previous tariff proceedings that the pros and cons were submitted to the Additional Chief Secretary, Energy Department, GoK, but did not submit any report to the Commission for review.

Further, the HESCOM has not taken any action to further implement DSM measures in the other parts of HESCOM, so as to conserve energy and also precious water, for the benefit of farmers. The HESCOM needs to expedite implementation of DSM measures in other parts of its jurisdiction without any further delay. There is a huge potential for energy saving in the agricultural sector which needs to be tapped as early as possible to derive the benefits of the same on completion of the project. The HESCOM should lay strong emphasis for implementation of DSM measures with a view to conserve energy and also precious water for the greatest benefit of farmers. **Therefore, the HESCOM should take up DSM initiatives in other parts of its jurisdiction also and submit suitable proposals under DSM Regulations to the Commission for approval.**

### Compliance by the HESCOM:

HESCOM has taken up this project with Energy Efficiency Services Limited, New-Delhi (EESL) as a pilot project and completed 590 Nos. of replacement of old Pump Sets by Energy Efficient Pump Sets (i.e., in Byadgi- 390 Nos. and in Nippani- 200 Nos).

Further a Letter was addressed to the Hon'ble Chief Secretary to GOK Energy Dept., Vikasa Soudha Bengaluru Vide Ltr No HESCOM/MD/PS/22492 Dt:09.12.2015 stating that the said project cost is approximately around Rs 3500 Crs. Hence the implementation of such big project by HESCOM Alone financially could be difficult. Copy of the said letter is enclosed (Annexure-6) for kind reference.

Further, HESCOM will take up the DSM initiatives in Agriculture Sector within its jurisdiction with the following upcoming projects in coordination with KREDL & MNRE under PM KUSUM Components.

**Component B:** Off-grid Solarization of IP Sets (Project already initiated by KREDL for SC/ST beneficiaries).

**Component C:** Solarization of EIP feeder / Solarization of all IP Sets on a EIP Feeder under PM KUSUM scheme.



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**12) Directive on Lifeline Supply to Un-Electrified households:**

**Commission's Views:**

The Commission notes that the progress achieved in electrification of un-electrified households under DDUGJY and SAUBHAGYA schemes as on October 2019 is poor and is not satisfactory. It is further noted that the electrification of households has not progressed as envisaged, resulting in very large number of households remaining without electricity. As can be seen from the HESCOM's compliance that, there are 22,848 numbers of un-electrified households are yet to be electrified under various schemes. It is extremely important that the HESCOM needs to fast pace the progress of electrification of un-electrified households for early completion. The HESCOM needs to hasten up the progress of electrification of un-electrified households for timely completion of the project.

Further, the Commission notes with concern, the slow pace of progress of electrification of un-electrified households. In its previous Tariff Orders, the Commission had directed the HESCOM to complete electrification within the time frame as stipulated by the project sanctioning / monitoring authority. However, it is observed that the progress achieved in electrification of households so far by the HESCOM is very disappointing. Therefore, the HESCOM should fast pace the works to complete them within in a definite timeframe.

If the work is not completed as per the target, it results in a substantial number of households remaining without electricity. The HESCOM should speed up the electrification work of un-electrified households and implement this program with more vigor by obtaining appropriate approvals, wherever necessary, to complete the task within the timeframe, in order to ensure that the people are provided with the basic need of electricity.

**The HESCOM is therefore, directed to expedite the task of providing electricity to all the un-electrified households within the targeted time and report compliance to the Commission giving the details.**

**Compliance by the HESCOM:**

The status of electrification of un-electrified households as on 30.09.2020 is as noted below:

	PARTICULARS	Nos	Remarks
	Total No. of Rural Households existing as on 10.10.2017	2113603	
	No Of Rural Households electrified as on 10.10.2017	1914911	
3	Balance No. of Un-electrified Households to be electrified	198692	<b>Executive Engineer (EI)</b> <b>RA Section</b>

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Navanagar, Hubballi - 580 025



4	BPL Un-electrified Households Covered under RGGVY 12th Plan	18221	Completed in November-2017
5	BPL Un-electrified Households sanctioned under DDUGJY	88707	Progress as on 30.09.2020 is 86846 under DDUGJY. The balance 1861 no. of HHS have availed Power supply on their own.
6	Un-electrified Households proposed under SAUBHAGYA	91764	Progress as on 31.03.2020 is 79800 under Saubhagya. The balance 16361 no of HHS have availed Power supply on their own.
7	Total Proposed under RGGVY/DDUGJY/SAUBHAGYA	198692	Total Electrification achieved under scheme is 184867
8	Total Households electrified as on 30.09.2020 under RGGVY/DDUGJY/SAUBHAGYA	184867	
9	<b>Total Households yet to be electrified as on 30.09.2020.</b>	<b>NIL</b>	

As noted in above table, as per the details uploaded in GARV portal, there are 1,98,692 nos. of households to be provided with electricity which is inclusive of both APL & BPL houses. The electrification of BPL households is covered under RGGVY Scheme 12th Plan, DDUGJY & SAUBHAGYA.

As per the survey conducted by our field officers, there are 1,98,692 nos of un-electrified households identified. Out of these, electrification of 1,06,928 nos of BPL households are covered under DDUGJY & RGGVY 12th Plan scheme for which the works are under progress. Balance 91,764 nos of BPL households are proposed under SAUBHAGYA with the proposed DPR cost of Rs. 102.87 Crore.

The details of HESCOM to provide electricity to these households under various schemes are as stated below;

**1. Electrification of Rural households taken up under RGGVY 12th plan scheme:**

The details of the un-electrified Households identified by HESCOM under the scheme are stated below.

Sl.No	Name of the District	No. of villages proposed for intensive electrification	Total No. of habitations	No. of habitations covered under this scheme	No of un-electrified house holds		Project Cost in Lakhs	Approved Project cost by REC in Lakhs	Award Date	Award Amount
					BPL	APL				
1	Haveri	692	741	702	18638	5568	606.51	607.02	10.09.2015	662.75

- Work is completed in November-2017 covering 18211 No's.

In HESCOM jurisdiction 30 un-electrified villages were existing and all 25 villages were in Karnataka & 05 are in Belagavi districts are electrified on 31.12.2017 covering 860



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Navanagar, Hubballi - 580 025



**3. BPL Households proposed under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) scheme :**

Sl. No.	Name of the District	No of BPL Hhs proposed in SAGY	No of BPL Hhs proposed in Connecting to Un connected HHs	Total	Progress as on 30.09.2020
1	Uttara Kannada	18	9654	9672	7536
2	Haveri	0	7627	7627	7796
3	Gadag	78	11399	11477	11828
4	Dharwad	0	3324	3324	3459
5	Vijayapura	60	12699	12759	12759
6	Bagalkot	159	8352	8511	8131
7	Belgaum	269	35068	35337	35337
	<b>Total</b>	<b>584</b>	<b>88123</b>	<b>88707</b>	<b>86846</b>

- **Rs. 48.34 Crores** is sanctioned to HESCOM vide Ltr. No.: REC/BLR/DDUGJY/15-16/299 Dtd.: 09.09.2015 for providing access to Electricity to Rural Households under DDUGJY scheme.
- Rs. 9.9 Cr is sanctioned for Sansad Adarsh Gram Yojana under DDUGJY.
- Tender for all 7 districts of HESCOM are invited and awarded on 01.04.2017 and REC has conveyed time extension to complete DDUGJY works by 31.12.2020.
- **Further, Electrification of 86846 Nos of eligible under DDUGJY is completed in all respects.**

**4. SAUBHAGYA :**

The DPR submitted under SAUBHAGYA is shown below;

SAUBHAGYA DPR								
Sl. No.	Name of District	RURAL				URBAN		
		Villages Covered	Habitation Covered	Households Covered	Cost	Towns Covered	Households Covered	Cost
		Nos	Nos	Nos	Rs in Crs	Nos	Nos	Rs in Crs
1	Belgaum	1090	1387	31115	25.03	35	1074	0.74
2	Bagalkot	544	568	12263	6.06	15	1707	0.69
3	Vijayapura	591	750	5619	5.39	13	461	0.57
4	Gadag	304	424	7182	6.28	9	269	0.40
5	Dharwad	331	351	7942	5.79	6	84	0.02
6	Uttara Kannada	856	1420	9830	30.79	12	332	0.35
	Haveri	562	575	12862	15.42	9	1024	0.78
	<b>Total</b>	<b>4278</b>	<b>5475</b>	<b>86813</b>	<b>94.79</b>	<b>99</b>	<b>4951</b>	<b>3.58</b>

Tender is invited for 48 blocks in 48 packages and awarded to the executing agencies in the month of December-2018.

- **The progress under SAUBHAGYA is shown below;**

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SAUBHAGYA Progress as 30.09.2020						
Sl. No.	Name of District	RURAL	URBAN	Total	Eligible HHs Qty	Achieved Qty
		Villages Covered	Households Covered			
		Nos	Nos	Nos	Nos	Nos
1	Belgaum	31115	1074	32189	27752	27752
2	Bagalkot	12263	1707	13970	11774	11774
3	Vijayapura	5619	461	6080	4739	4739
4	Gadag	7182	269	7451	7732	7732
5	Dharwad	7942	84	8026	7376	7376
6	Uttara Kannada	9830	332	10162	7415	7415
7	Haveri	12862	1024	13886	13012	13012
<b>Total</b>		<b>86813</b>	<b>4951</b>	<b>91764</b>	<b>79800</b>	<b>79800</b>

- Rs.40.55 Crores is sanctioned as project cost for electrification of Households under Saubhagya and Rs. 53.14 Crores is sanctioned for creating additional infrastructure under DDUGJY for electrification of Saubhagya households.
- **Electrification of 79800 Nos of eligible Households is achieved and the work is completed in all respects.**

### 13) Directive on Implementation of Financial Management Framework

#### Commission's Views:

The Commission notes with displeasure that the HESCOM has not implemented the financial framework model with the letter and spirit and is submitting the same status as submitted in its previous tariff filing.

The Commission also notes that HESCOM has submitted the data in respect of only two Divisions without setting the targets on various parameters set out in the previous Tariff Order (in the Commissions views part) and without making any analysis. Without setting the targets and making necessary analysis, HESCOM will not achieve the desired objective in the conduct of business on commercial principles. It is also observed that the strategies under the financial framework have not been extended to the entire circle after the implementation of the framework in two Sub-Divisions initially.

HESCOM has not implemented the model as desired by the Commission and has not submitted the compliance in respect of implementation of Financial Management Framework, on quarterly basis, to the Commission, as directed. It confirms that the HESCOM is not serious about implementing the model on Financial Management Framework in its jurisdiction, for bringing in accountability of its operations but continued to report that it will implement the directive shortly but has done nothing in reality.



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The Commission has been receiving concerns from the consumers and stake holders about the accumulation of revenue arrears and failure to recover the long - standing arrears is causing adverse financial impact on the HESCOM's cash flows. The Commission directs HESCOM to chalk out a stringent action plan to recover the long-standing accumulated arrears from all the categories of consumers including local bodies, statutory authorities etc.

The Commission disapproves the inaction of the HESCOM in the matter and directs it to review the performance of the Divisions & Sub-Divisions in terms of the energy received, sold, average revenue realization and average cost of supply using the Financial Management Framework Model developed by it.

Further, the HESCOM is directed to continue to analyze the following parameters each month to monitor the performance of the Divisions / Sub-Divisions, at corporate level:

- a) Target losses fixed and the achievement at each stage.
- b) Target revenue to be billed and achievement against each tariff category of consumers.
- c) Target revenue to be collected and achievement under all tariff categories.
- d) Target revenue arrears to be collected.
- e) Targeted distribution loss reduction when compared to previous years' losses.
- f) Comparison of high-performing Divisions in Sales/ Revenue with low performing Divisions and implementing best practices followed in the best performing Divisions, in the low performing Divisions.
- g) Targeted achievement in performing the energy audit, feeder-wise, DTC- wise, and achieving the reduction in energy losses of feeders and DTCs by setting right the lacunae / issues viz., tagging of consumer's RR No's with DTCs etc.,

Based on the analysis, the HESCOM needs to take corrective measures to ensure 100 per cent meter reading, billing, and collection, through identification of sub-normal consumption, replacement of non-recording meters etc.,

Therefore, the Commission hereby reiterates its directive that the HESCOM shall implement the Financial Management Framework model in its jurisdiction, effectively, to bring in accountability in the performance of the Divisions / Sub-Divisions in the matter of the quantum of energy received, sold and its cost so as to conduct its business on commercial principles. Compliance in this regard shall be submitted to the Commission on a quarterly basis, regularly. HESCOM shall identify the Sub-Divisions and Divisions which are showing high distribution losses and not collecting the required rate of ARR, fix personal responsibility on the concerned and

  
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**take remedial measures to ensure full recovery of revenue vis-à-vis the energy drawn by such Sub-Division and Divisions.**

**Compliance by the HESCOM:**

**1) Revenue to be billed and achievement each tariff category of consumers.**

The billing efficiency from April- 2020 to September 2020 is as under:

Month/year	Total Installations	No of Installations billed	Billing Efficiency%
April-2020	5299995	4841420	99
May-2020	5310138	4841271	99
Jun-2020	5322537	4851372	99
July-2020	5336763	4860814	99
Aug-2020	5349903	4872812	99
Sept-2020	5364906	4889606	99

- Further, the company's billing is considered to be reasonably efficient, Revenue from sale of power is the main source of income and is accounted for on an accrual basis. However, to a small extent billing efficiency is lagging due to COVID-19 pandemic disease. Efforts will be taken to achieve 100% billing efficiency,
- Periodic inspection of installations where sub normal consumption recorded & to fix good meters to such installations as a corrective measure. Necessary directions will be issued to the MT section, Vigilance wing to inspect periodically to assess/confirm the correctness of meter/installation so that to achieve input energy is billed.
- The tamper proof meter boxes have been installed for consumers and Accuracy of the billing is ensured through periodic test check by field staff.

**2) Revenue to be collected and achieved under all tariff categories.**

The Overall demand, collection efficiency including adjustment from April 2020 to September 2020 is as under: (in Crs Rs.)

Month/year	Demand	collection	Efficiency%
April-2020	822.84	689.46	84
May-2020	776.81	742.13	96
Jun-2020	784.01	761.07	98
July-2020	637.40	623.76	98
Aug-2020	534.94	580.55	109
Sept-2020	497.04	485.59	98



  
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The Average collection efficiency from April 2020 to September 2020 is 97.16. Due to COVID-19 Pandemic in the current year the collection efficiency has decreased.

Necessary steps will be taken to recover the arrears of all tariffs including the RLB ULB and Government installations to minimize the revenue arrears to strengthen the company's financial position.

Further, measures will be taken to revise the target of collection as per the tariff order in force and directions in this regard will be issued to the concerned to achieve the revised target collection.

The average revenue realization in Re per unit is as under:

Month/year	average revenue realization in Re per unit
April-2020	7.05
May-2020	6.47
Jun-2020	7.16
July-2020	7.24
Aug-2020	7.24
Sept-2020	7.28

The Average collection efficiency from April 2020 to September 2020 is 97.16. Due to COVID-19 Pandemic in the current year the collection efficiency has decreased.

Necessary steps will be taken to recover the arrears of all tariffs including the RLB ULB and Government installations to minimize the revenue arrears to strengthen the company's financial position.

Further, measures will be taken to revise the target of collection as per the tariff order in force and directions in this regard will be issued to the concerned to achieve the revised target collection.

The average revenue realization in Re per unit is as under:

Month/year	average revenue realization in Re per unit
April-2020	7.05
May-2020	6.47
Jun-2020	7.16
July-2020	7.24
Aug-2020	7.24
Sept-2020	7.28





**3) Revenue arrears to be collected:**

The arrears involved in long disconnected installations from April 2020 to September 2020 and total arrears as on 30.09.2020 is as under: (in Crs Rs.)

Month/year	Arrears Long dis installations	Recovery	CB	Total arrears as on 30.09.2020.
April-2020	29.35	0.00	29.35	2307.22
May-2020	29.47	0.00	29.47	2342.71
Jun-2020	29.62	0.00	29.62	2359.41
July-2020	29.24	0.00	29.24	2373.48
Aug-2020	29.25	0.00	29.25	2327.85
Sept-2020	29.60	0.00	29.60	2338.97

The collection and demand in respect of RLB & ULB is as under: since April 2020 to September 2020

Month/year	RLB Demand	RLB Recovery	ULB Demand	ULB Recovery
April-2020	19.30	17.20	23.75	9.78
May-2020	18.00	11.07	24.42	14.39
Jun-2020	20.30	10.29	24.23	14.41
July-2020	19.83	20.37	27.16	11.48
Aug-2020	22.82	27.84	23.42	57.78
Sept-2020	21.21	10.49	24.54	16.84
Total	121.46	97.26	147.52	124.68

Necessary directions will be issued to the concerned to recover the Revenue arrears including the arrears of long disconnected installations duly following the Recovery of Dues Act 1976.

**4) Comparison of high performing divisions in sales/revenue with low performing divisions and implementing best practices followed in the best performing divisions with low performing divisions.**

HESCOM has identified two Divisions Namely O&M Urban Division Belgaum comprising of Urban consumers, and O&M Division Gadag comprising of mixed consumers of Urban and Rural for implementation of Financial Frame Work on the basis of the same the analysis for 1<sup>st</sup> & 2<sup>nd</sup> Quarter (April-2020 to September-2020) report is submitted as Annexure-7.



  
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#### 14) Directive on Prevention of Electrical Accidents:

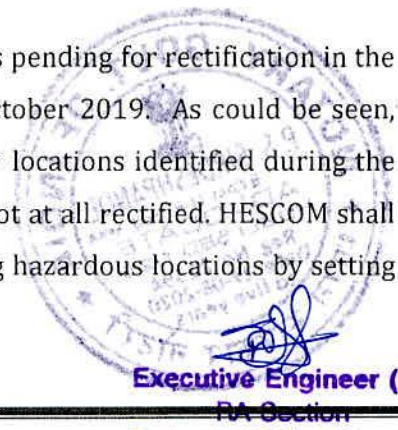
##### Commission's Views:

The Commission takes note of the various remedial measures including rectification of hazardous installations in its distribution network taken by the HESCOM. It is observed that with a huge number of hazardous locations at the beginning of the year, it has done very little to clear the backlog instead it has added further to the pendency. This shows that HESCOM is not serious about clearing all the hazardous locations. As a result, despite HESCOMs claim of taking adequate measures, the rate of fatal electrical accidents involving human, animal and livestock is on an increase, which is a matter of serious concern to the Commission. The frequent occurrence of electrical accidents indicates that there is an urgent need for identification and rectification of all the hazardous locations, more systematically and regularly. Therefore, the HESCOM should continue to focus on identification and rectification of all the hazardous installations/ locations including streetlight installations / other electrical works, under the control of local bodies to prevent electrical accidents. HESCOM should also take up continuous awareness campaigns through visual / print media on safety aspects relating to electricity among public.

The Commission is of the view that, HESCOM should carry out more effective periodical maintenance works, provide and install LT protection to distribution transformers, and also ensure use of safety tools & tackles by the field-staff, besides imparting necessary training to the field-staff at regular intervals.

The Commission is also of the view that the existence of hazardous locations / installations in the distribution network is evidently, because of the sub-standard works carried out by HESCOM without adhering to the best & standard practices in construction / expansion of the distribution network. The HESCOM needs to conduct regular safety audit of its distribution system and carryout preventive maintenance works as per schedule of the Safety Technical Manual issued by the Commission to keep the network equipment in healthy condition. HESCOM should also take up regular inspection of consumer installations especially Irrigation pump houses, cow sheds and buildings under construction to identify hazardous installations, educate the consumers of the likely hazard and persuade them to take up rectification.

The Commission further notes that the hazardous locations pending for rectification in the area of HESCOM is as huge as 48,938 as at the end of October 2019. As could be seen, HESCOM has given prominence to rectify the hazardous locations identified during the year and the hazardous locations as at the beginning are not at all rectified. HESCOM shall chart out a strategic action plan to rectify even the pending hazardous locations by setting





monthly targets and submit the action plan to the Commission within 3 months of the date of this Order along with nullifying the hazardous locations in its area.

**The Commission, reiterates its directive that the HESCOM shall continue to take adequate measures to identify and rectify all the hazardous locations / installations existing in its distribution system under an action plan to prevent and reduce the number of electrical accidents occurring in its distribution system. Further, it shall also focus on rectifying hazardous consumer installations. Any lapse on the part the concerned officers / officials should entail them to face disciplinary action.**

**HESCOM shall submit an action plan for reducing the accidents in HESCOM area within 3 months of the date of this Order. The compliance thereon shall be submitted to the Commission every quarter, regularly.**

#### **Compliance by the HESCOM:**

HESCOM has vast distribution network with 88981.68 kms High Tension line 138029.95 kms Low Tension line and more than 228939 Nos. of DTCs and apart from these we have 181 Nos of 33/11 KV MUSS to cater the needs of around 52.94 lakh consumers. Efforts are being made continually to avoid electrical accidents and there is lack of knowledge among maintenance staff/public/consumer. We have taken up huge awareness programme to educate the field staff and public about the electrical safety measures.

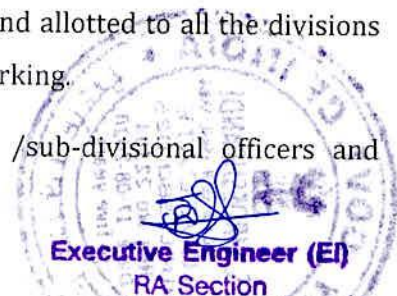
HESCOM is continuously engaged in identification and rectification of all the hazardous locations/installation to prevent electrical accidents. HESCOM is striving to have continuous awareness campaigns through visual / print media on safety aspects among public. Along with all this the following measures has been taken for prevention of accidents to Employees /consumers / Public.

All concerned officers are instructed to ensure that all the linemen in their jurisdiction are provided with proper and adequate safety gear. The linemen are instructed to compulsorily use such safety gears provided to them while working on the network.

The Chief Engineers of respective zone are authorized to procure good quality tool kits and safety belts to be provided to linemen coming under their jurisdiction. 4600 pairs of rainwear, 4200 sets of Tool kit, 3300 Nos of Helmets are procured and issued to the working staff so far.

Reflective Jackets and LED torch have also been procured and allotted to all the divisions in HESCOM, and it is strictly instructed to use them while working.

Safety manuals are circulated among all the Divisional /sub-divisional officers and instructed for implementation of safety rules in fields.





Procurement of safety materials such as safety belts (and safety goggles, safety shoes and Rubber hand gloves is made as per the requirement and need.

Training Session on electrical accidents and safety procedures to be followed to avoid accidents is being conducted for the newly recruited lineman and to all maintenance staff, at Training Centre of HESCOM, Hubballi at regular intervals.

HESCOM will continue its efforts to educate its staff on this behalf regularly. The details of accidents is as given below.

**The details of accidents occurred and expenditures on preventive measures to reduce Accidents in HESCOM are as follows (up to 2<sup>nd</sup> QTR / FY-21)**

Sl. No	District	FY-20	FY-21			
		Electrical Accident FY-2020	Electrical Accident April -20 to June-20 (1st Qtr)	Expenditure incurred in crores for prevention of Accidents (1st Qtr)	Electrical Accident up to Oct-2020	Expenditure incurred in crores for prevention of Accidents up to Oct-2020
1	Dharwad	37	8	0.28	24	0.33
2	Gadag	27	9	0.03	27	0.3
3	Uttara Kannada	47	7	1.37	19	2.5
4	Haveri	48	23	0.6	44	1.23
5	Belgaum	138	37	0.78	82	1.48
6	Vijayapura	30	9	0.11	20	0.19
7	Bagalkot	75	12	0.02	22	0.08
	<b>Total</b>	<b>402</b>	<b>105</b>	<b>3.19</b>	<b>238</b>	<b>6.11</b>

In view of accident occurring in HESCOM various Preventive Measures to reduce accidents has been taken up in all the divisions of HESCOM. Among them few are listed below.

- Providing intermediate poles in lengthy span – 13601 Nos
- Replacement of Broken /Detoriated poles – 10758 Nos
- Shifting of DTC Lines to safer place-1493 Kms
- Replacement of Detoriated conductor -524 Kms
- Shifting of HT/LT Lines – 511 Kms
- DTC Earthing –974 Nos
- Transformer maintenance work has been carried out to reduce the accident.
- LT reconductoring works for 1651 Kms has been completed
- HT reconductoring works for 763 Kms has been completed.



*(Signature)*  
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Action is being taken to educate the large public regarding safe use of equipment's, Consumer awareness programmes are arranged regarding safety, at all the district Headquarters about electrical safety. Also Circulars Vide Circular No: 1) HESCOM / GM(T) / EE-3 / AEE-3 / 18-19 / CYS-688,689,690 Dated: 30.05.2018. 2) HESCOM / GM(T) / EE-3 / AEE-3 / 18-19 / CYS-3231,3232 Dated:28.11.2018 3) HESCOM / GM(T) / EE-3 / AEE-3 / 18-19 / CYS-2893 Dated: 11.10.2019 regarding creating safety Zones has been circulated in HESCOM jurisdiction for adopting safety rules.

Review meeting were conducted through Video Conference (VC) to review Identification and rectification of Hazardous locations. Further there are 7545 Nos of Hazardous locations identified and 2119 Nos. rectified for the year 2020-21 till October-2020 there are 5426 Nos of locations are yet to be rectified which will be within this Financial year.

All efforts are being made to reduce the accidents in all the area coming under the jurisdiction of HESCOM on priority.

HESCOM has taken adequate measures to identify and rectify all the hazardous locations / installations existing in its distribution system. The details of Hazardous Locations identified and rectified for the year 2020-21 till October-2020 is as given below.

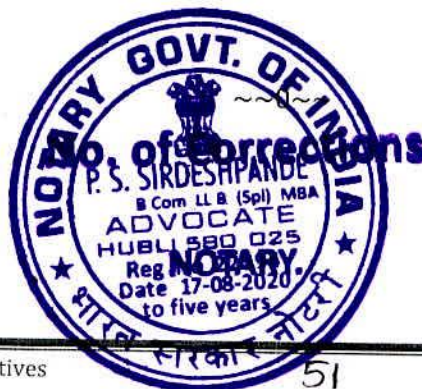
**Details of Hazardous Locations for the year 2020-21 till October-2020:**

Sl No	Name of the Circle	FY-20	FY-21			Balance to be rectified	Remarks
		Hazardous locations existing at the beginning of the year	Hazardous locations identified in 1 <sup>st</sup> Qtr	Hazardous locations rectified in 2 <sup>nd</sup> Qtr	Hazardous locations rectified		
1	Hubballi	834	966	478	480	964	Works already sanctioned and some of the works are under progress.
2	Haveri	512	463	84	206	341	
3	Sirsi	925	935	253	469	719	
4	Belagavi	1103	804	255	299	760	
5	Chikkodi	387	574	516	506	584	
6	Vijaypur	604	590	40	131	499	
7	Bagalkot	1708	1528	59	28	1559	
<b>TOTAL</b>		<b>6073</b>	<b>5860</b>	<b>1685</b>	<b>2119</b>	<b>5426</b>	

Action plan to mitigate electrical accidents will be prepared as per the Hon'ble Commissions Tariff order-2020 issued on 4.11.2020 and efforts will be made to implement action plan after due consent from the Hon'ble Commission.

**ATTESTED**

**NOTARY.**



  
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