

HESCOM

Preliminary observations on Application for Approval of APR for the FY17 and ARR for the FY19

I. Annual Performance Review for the FY17:

A. Sales -other than IP Sets:

The Commission in its Tariff Order,2016 dated 31.03.2016, had approved total sales to various consumer categories at 10063.35 MU as against the HESCOM's proposal of 10800.79 MU, excluding sales to HRECS & SEZ. The actual sales of the HESCOM as per the current APR filing is 10265.54 MU, indicating an increase in sales to the extent of 202.18 MU when compared to the approved sales. The increase in sales is 398.38 MU in LT-categories and there is a reduction of 196.20 MU in sales to HT-categories. It is noted that, as against the approved sales [excluding HRECS sales and supply to SEZ] of 4352.70 MU to categories other than BJ/KJ and IP sets, the actual sales achieved by the HESCOM is 4197.40 MU, resulting in the reduction of sales to these categories by 155.30 MU. Further, the HESCOM has sold 6068.14 MU to BJ/KJ and IP categories against approved sales of 5710.66 MU resulting in increased sales to these categories by 357.48 MU.

The category-wise sales approved by Commission and the actuals for the FY 17 are indicated in the table below:

Energy in Million Units

Category	Approved	Actuals	Difference
LT-2a*	1473.94	1469.68	-4.26
LT-2b	15.35	16.81	1.46
LT-3	440.50	425.71	-14.79
LT-4b	17.47	16.01	-1.46
LT-4c	1.48	0.78	-0.70
LT-5	316.72	316.34	-0.38
LT-6	231.47	271.86	40.39
LT-6	137.51	146.73	9.22
LT-7	14.61	26.03	11.42
HT-1	229.75	215.44	-14.31
HT-2a	1013.41	843.88	-169.53
HT-2b	132.59	120.62	-11.97
HT-2c	83.14	66.32	-16.82
HT-3a & b	212.92	215.02	2.10
HT-4	14.01	14.50	0.49
HT-5	17.83	31.67	13.84

Sub total	4352.70	4197.40	-155.30
BJ/KJ	90.84	87.01	-3.83
IP	5619.82	5981.13	361.31
Sub total	5710.66	6068.14	357.48
Grand total**	10063.36	10265.54	202.18

*Including BJ/KJ installations consuming more than 18 units/month

**Excludes sale to HRECS and SEZ.

From the above table it is noted that the major Categories contributing to the increase in sales, as compared with the estimates are; IP sets (361.31 MU) and LT-6WS (40.39 MU). Further, the reduction in sales is mainly in HT-2a category (169.53 MU).

The HESCOM has stated that the decrease in sales to HT-2a category is due to consumers opting for Open Access and that in the FY17 under OA, they have consumed 386.76 MU. The Commission has taken note of the facts as furnished by the HESCOM. However, in the case of LT-6 water supply, the HESCOM shall analyze the reasons for considerable increase in sales.

Further to validate the sales, the HESCOM shall furnish the following information:

- a) the HESCOM has furnished the overall sales under OA/wheeling for the FY12 to the FY17. In order to analyze reduction in HT sales, the HESCOM shall furnish the breakup of sales to HT2(a), HT2(b), HT 2(c) and HT-4 categories along with the consumption from open access / wheeling for the period 2015-16 to 2016-17 in the following format:

HT2A

Energy in MUs

Year	Sales by the HESCOM	Energy procured by HT Consumers under open access / wheeling	Total of the HESCOM Sales & OA/Wheeling consumption	% share of OA energy to Total energy
2015-16				
2016-17				

HT2B

Energy in MUs

Year	Sales by the HESCOM	Energy procured by HT Consumers under open access / wheeling	Total of the HESCOM Sales & OA/Wheeling consumption	% share of OA energy to Total energy
2015-16				
2016-17				

HT2C

Energy in MUs

Year	Sales by the HESCOM	Energy procured by HT Consumers under open access / wheeling	Total of the HESCOM Sales & OA/Wheeling consumption	% share of OA energy to Total energy
2015-16				
2016-17				

HT4

Energy in MUs

Year	Sales by the HESCOM	Energy procured by HT Consumers under open access / wheeling	Total of the HESCOM Sales & OA/Wheeling consumption	% share of OA energy to Total energy
2015-16				
2016-17				

B. Sales to IP Sets:

- a. The Commission notes that, the overall sales (5981.13) have increased by 361.31 MU (6%) as against the approved sales of 5,619.82 MU as per the Tariff Order dated 30th March, 2016 for the FY17. Further, the overall sales have increased by 541.98 MU (10%) when compared to actual sales of 5,439.15 MU in the FY16. **The HESCOM shall explain for increase in sales over the approved figures.**
- b. Further, the Commission had approved specific consumption of IP sets as 8,244 units / installation / annum for the FY17. As per the consumption reported in the filing, the specific consumption works out to 9,195 units / installation/annum for the FY17. This indicates a huge increase of 951 units / installation/annum in specific consumption. Further, the actual number of installations for the FY17 has decreased by 51,600 numbers to the approved number of installations of 7,14,611. **The HESCOM shall furnish the detailed reasons for increase in specific consumption as well as total IP-consumption despite decrease in number of installations, for the FY17.**

- c. During the KPTCL and the ESCOM's Review meeting held on 25.10.2017, the HESCOM has submitted that out of 1,53,997 number of IP sets for which GPS survey was completed, 3,227 have been declared as not-in-use/dried up installations. Further, it is noted that around the same number were declared as not-in- use/dried up installations during the previous year also. That means 3,227 number of installations shall have to be deducted from the number of installations for the FY17 (rom April, 2016 to March, 20170). **Accordingly, month-wise and total IP consumption should have to be revised. The HESCOM shall submit the revised consumption based on the number of installations for the FY17, taking into account GPS survey data.**
- d. The Commission, in its Tariff Order dated 30th March, 2016, had directed the HESCOM to furnish feeder-wise IP-set consumption based on feeder energy meter data by deducting the actual energy losses prevailing in 11kV line, distribution transformers and LT line, to the Commission, every month in respect of agriculture feeders segregated under NJY. During the ESCOMs & KPTCLs review meeting held on 25.10.2017, the HESCOM has submitted the consolidated consumption details for the FY17 without indicating feeder-wise/subdivision-wise input details. Therefore, the HESCOM is required to revise the IP consumption for the FY17 as per the energy recorded on the segregated feeders clearly indicating the energy input to the feeders on the basis of energy meters reading data **(initial reading-final reading* constant)**. **The HESCOM shall furnish month-wise data in support of its claims of IP-consumption for the FY17 duly considering the above issues, as per the format given in subsequent paras.**
- e. **RPO Compliance the FY17:**

The Commission notes that the HESCOM, as per the data submitted, has complied with Non-solar RPO and has not met solar RPO to an extent of 7.85 MU, even after considering allocation as per Government Order No. EN 43 PSR 2017 dated 26.09.2017. the HESCOM shall report the action taken to meet the shortfall in solar RPO and also confirm that the power purchase cost indicated

at Pg-66 is according to the audited accounts. the HESCOM shall furnish the break-up details of RE purchase under section 11 and from other sources.

As per the power purchase details furnished for the FY17, it is noted that the total solar purchased including NTPC VVNL is 73.03 MU [KPCL:3.53 MU, W & B KBJNL:0.37 MU, banked & infirm energy of Athavan solar:2.53 MU and at Sl.No.39 page-57, total solar including NTPC VVNL & farmers scheme:66.60 MU], whereas the HESCOM has indicated it as 77.00 MU. The HESCOM shall reconcile the figures and resubmit the RPO statement.

Similarly, the Non-solar energy purchased would be 1517.93 MU [Wind mill 844 MU, banked energy 43.67 MU, infirm energy pg-55 - 74.19 MU, SLDC banked energy:3.47 MU, mini-hydel: 80.95 MU, co-gen: 254.96 MU, infirm energy share (page-56) -133.18 MU, ST RE purchase-47.13 MU, Sec11-36.38 MU], whereas the HESCOM has indicated it as 1511.29 MU [967.94 MU+543.35 MU]. the HESCOM shall reconcile the figures and resubmit the RPO statement.

C. Power Purchase for the FY17:

- a. In respect of the following Hydro and thermal stations of KPCL and UPCL, indicated in D-1-Format, the cost per unit allowed is on a higher side as compared with the per unit cost payment made by the BESCO. The the HESCOM shall furnish the reasons thereof and if any excess payment is found, the same shall be recovered from the generators, under intimation to the Commission:

Amount in Rs.

Name of the station	Per unit cost paid by the HESCOM during the FY17	Per unit Cost paid by BESCO during the FY17
Sharavathi	0.514	0.388
Kalinadi (Nagajari)	0.92	0.70
Ghataprabha(GDPH)	1.85	1.314

Almatti	1.774	1.466
Gerusoppa/STRP	1.90	1.314
Kadra	2.58	0.815
Kodasalli	1.78	0.641
Shiva	1.16	0.982
Munirabad	0.98	0.701
RTPS unit 1 to 7	4.819	4.066
RTPS unit 8	4.903	4.666
BTPS unit 2	6.33	5.412
BTPS unit 3	4.0839	0.9064
UPCL	4.793	4.11

- b. The HESCOM has considered Rs 89.249.67 crores as inter-ESCOMs energy charges as indicated in D-1-Format. The reconciled energy balancing statement signed by all the ESCOMs shall be furnished.
- c. The HESCOM has indicated an amount of Rs.102.73 Crores in D-1-Format towards Other (unauthorized energy). The HESCOM needs to furnish the detailed explanation for this amount.

D. Capital Expenditure for the FY17:

The Commission had approved a capex of Rs.806.05 Crores for the HESCOM during the MYT application for the FY17, against which Rs.820.48 Crores capex has been achieved by the HESCOM. the HESCOM has shown a capital expenditure of Rs.942.39 Crores and the asset categorized value at Rs.821.50 Crores (Format D17 & D15). The gross asset categorized value for Plant & machinery and Lines, cables and Networks is shown as Rs.806.24 Crores. The details of the category-wise capex expenditure are shown below:

Capital expenditure for the FY17

Amount in Rs. Crores

Sl. No.	Scheme	Capital budget for the FY 17 as approved by KERC	Capital budget Achievement for the FY 17	Difference
		Financial	Financial	Financial
a	Gangakalyan IP sets	20.00	77.21	-57.21
b	Special Development Plan for backward talukas under Nanjundappa scheme(SDP)	20.00	9.60	10.40
c	Electrification of Hamlets(Not covered under RGGVY)	1.00	0.25	0.75

d	Electrification of HB/DB/JC/AC (Habitations) under SCP (Not covered under RGGVY)	1.00	5.39	-4.39
e	Electrification of TC(Habitations) under TSP (Not covered under RGGVY)	0.50	2.55	-2.05
f	Electrification of BPL Households (Not covered under RGGVY)	1.00		1.00
g	Water works	5.00		5.00
h	RGGVY	5.00		5.00
	DDGUVY	110.00		110.00
i	DDG (Phase-1 & Phase-2)			0.00
	Rehabilitation of flood affected villages(special programme).		0.26	-0.26
	Sub - total	163.50	95.26	
2	Expansion of network and system improvement works.			
a	E & I works.	25.00	44.81	-19.81
b	Energisation of IP sets under general.		17.65	-17.65
	Energisation of IP sets as per GOK	125.00	92.30	32.70
c	Service connections other than IP/BJ/KJ/Water works.	30.00	32.01	-2.01
d	Construction of new 33 KV stations and lines.	4.00	0.24	3.76
e	Augmentation of 33 KV stations.	3.00	5.60	-2.60
f	Construction of 11 KV lines for 33 KV / 110 KV sub-stations.	5.00	12.97	-7.97
g	Nirantar Jyoti Yojana.	50.00	71.34	-21.34
		50.00		50.00
h	R- APDRP.	20.00	8.35	11.65
	R-APDRP exclusively for Modem and meters	1.00		1.00
	IPDS	46.00		46.00
ii	Sub - total	359.00	285.27	
3	Reduction of T & D and ATC loss			
a	Providing meters to un-metered IP sets.	0.05	0.28	-0.23
b	Providing meters to un-metered BJ/KJ installations.	2.00	0.06	1.94
c	Replacement of faulty / MNR energy meters by static meters.	5	5.08	-0.08
d	Replacement of more than 10 year old electromechanical energy meters by static meters.	50		50.00
e	DTC's metering (Other than APDRP)	50.00	50.51	-0.51
f	Replacement of 33 KV lines Rabbit conductor by Coyote conductor.	5.00	5.34	-0.34
g	Replacement of 11 KV lines Weasel conductor by Rabbit	10.00	10.54	-0.54

	conductor.			
h	Replacement of age old LT conductor by Rabbit conductor.	6.00	6.04	-0.04
i	HVDS (Pilot project for 1 district/year)	1		1.00
j	NEF (REC) for replacing 11 KV OH feeders by UG Cables in Hubli and Belgaum cities.	100	88.85	11.15
iii	Sub - total	229.05	166.70	
4	New initiatives works			
a	IT initiatives, automation and call centre	1.00	4.09	-3.09
c	Smart grid/sprinklar/drip irrigation system	0.5		0.50
d	Providing solar roof tops to the HESCOM office buildings	5	8.33	-3.33
e	Establishing ALDC & SCADA.	1.00	0.16	0.84
f	Thermal Imaging and GIS Mapping of DTCs	5		5.00
g	Special pilot project for Statergic Business Centre at Shiggaon sub-Division	1		1.00
iv	Sub - total	13.50	12.58	
5	Replacement and other miscellaneous works			
a	Replacement of failed distribution transformers.	5.00	112.85	-107.85
b	Replacement of Power Transformers.	2.00	0.42	1.58
c	Replacement of old and failed equipments and other works of existing 33 KV stations and lines.	3.00	5.05	-2.05
d	Preventive measures to reduce the accidents. (Providing intermediate poles replacement of deteriorated conductor, DTC earthing etc.)	5.00	15.50	-10.50
e	T&P materials.	1.00	0.83	0.17
f	Creating infrastructure to UAIP Sets	20.00	126.00	-106.00
g	Civil Engineering works.	5.00	0.02	4.98
	Reserve			0.00
v	Sub - total	41.00	260.67	
	Total (i+ii+iii+iv+v)	806.05	820.48	

On the above the Commission has made the following observations:

1. In the case of “**E & I work and Energization of IP sets under general**” the HESCOM has achieved Rs.62.46 Crores capex which is Rs.37.46 Crores on excess of the approved capex of Rs.25 Crores. The HESCOM shall to explain

the reasons and the benefits that has accrued from such an excess capex in this category.

2. In the case of “**Replacement of failed distribution transformer**”, the HESCOM has shown a capex of Rs.112.85 Crores and in the subsequent para, the HESCOM has stated that, the Expenditure would be transferred to Revenue expenditure. If this amount of capex is transferred to revenue expenditure, the overall capex of the HESCOM would be less than the amount approved by the Commission. **Hence, the HESCOM should submit a revised category-wise capital expenditure table duly making the above changes.**
3. In the case of “**creating infrastructure to UAIP Sets**” the HESCOM has incurred cost Rs.126 Crores against the approved figure of Rs.20 Crores. the HESCOM should explain the reasons for such a huge expenditure and furnish the status of completed works and remaining works of creating infrastructure to the UAIP sets.
4. Though, the HESCOM has stated that, the NJYIII phase, IPDS, DDUGJY and RGGVY capex works are in progress. The works physical progress as well as the financial progress needs to be submitted to the Commission.
5. the HESCOM has not submitted the post-commissioning analysis of the categorized works of the FY17, as per the directions issued by the Commission. The HESCOM should submit the same without fail.

II. Annual Revenue Requirement for the FY19:

A. Sales -other than IP Sets:

the HESCOM in their filing has stated that the number of installations for the FY18 & the FY19 is estimated considering CAGR for the period the FY13 to the FY17 except in the case of HT-2c and HT-3 excluding HT 3a(iii), for which four-year CAGR [the FY14 to the FY17] is considered. For HT-4 and HT-3a(iii), the HESCOM has adopted the present trend as four year CAGR is negative.

Also, the Commission has noted that for energy sales estimate, CAGR for the period the FY13 to the FY17 except in the case of HT-2c, HT-3 and HT-4, for which four-year CAGR [the FY14 to the FY17] is considered.

The observations of the Commission on sales forecast for the FY18 are as follows:

1. LT(1) – BJ/KJ category:

the HESCOM has estimated the sales for installations consuming up to 40 units /month and for installations consuming above 40 units/month, based on the data available up to September, 2017. the HESCOM shall furnish the details of BJ/KJ installations as on 30.11.2017 in the following format:

Particulars	No. of Installations	Consumption in MU
Installations Consuming up to 40 Units		
Installations consuming more than 40 units and build under LT 2a		

Further, in D-2 format, for the FY19, Installations consuming up to 40 Units is indicated as 707467 and Installations consuming more than 40 units and build under LT 2a as 55155, whereas in D-21 format, the mid-year installations are indicated as 707657 and 55155 respectively. Therefore, the HESCOM shall reconcile the number of installations and clarify as to whether in D-21 for BJ/KJ end-year figures are considered.

2. The table indicating the growth rates for the number of installations is furnished below:

Category	Percentage Growth Rates			
	2011-12 to 2016-17 CAGR	2013-14 to 2016-17 CAGR	the FY17 growth over the FY16	Growth rate proposed by the HESCOM for the FY19
LT-2a	4	4	4	4
LT-2b	8	9	10	9
LT-3	5	5	6	5
LT-5	6	6	6	6

LT-6 WS	11	11	16	11
LT-6 SL	4	4	7	4
HT-1	11	11	12	11
HT-2 (a)	9	9	10	8
HT-2 (b)	3	4	6	2
HT-2 (c)	-	18	11	18
HT-3(a)& (b)	13	10	7	13
HT-4	-12	-6	-3	3

It is noted that:

- a. The growth rate considered for HT-3 is high compared to the previous growth and CAGR for the period 2013-14 to 2016-17.
- b. The growth rate considered for HT-2a and HT-2b is lower compared to the normal growth rate indicated above.

3. The table indicating the growth rates for the energy sales is furnished below:

Category	Percentage Growth Rates			
	2011-12 to 2016-17 CAGR	2013-14 to 2016-17 CAGR	the FY17 growth over the FY16	Growth rate proposed by the HESCOM
LT-2a	6	6	3	5
LT-2b	12	13	15	27
LT-3	7	8	3	6
LT-5	2	2	1	2
LT-6 WS	11	13	26	12
LT-6 SL	5	7	14	5
HT-1	6	5	2	5
HT-2 (a)	-1	-2	-9	-4
HT-2 (b)	5	4	1	3
HT-2(c)	-	28	14	38
HT-3(a)& (b)	13	13	31	71
HT-4	-2	-4	-1	-8

It is noted that:

- a) The growth rate considered for LT- 2(b), HT-2c and HT-3 categories is high considering the CAGR.
- b) The growth rate considered for LT-3 and HT-2b is low considering the CAGR
- c) Even though the HESCOM has indicated positive growth in the number of installations for HT-2a and HT-4 categories, sales growth rate indicated is negative. the HESCOM shall furnish the reasons for the same.
- d) For HT2(a) category, the sales estimate based on the analysis of open access impact shall be considered. The HESCOM should have computed the growth rates considering the total energy sold to this category including OA/wheeling and should have estimated the sales considering the ratio of energy sold by the HESCOM in the FY17 to the total sales of the FY17 including OA/wheeling sales. The HESCOM shall compute HT-2a sales on the above method and furnish the data.
4. To validate the sales, category-wise information in the following format shall be furnished:

a. No. of Installations

Category	2015-16 Actuals		2016-17 Actuals		2017-18	
	As on 30 th Nov 2015	As on 31 st March 2016	As on 30 th Nov 2016	As on 31 st March 2017	As on 30 th Nov 2017	As on 31 st March 2018 (Estimate)
LT-2a						
LT-2b						
LT-3						
LT-4 (b)						
LT-4 (c)						
LT-5						
LT-6						
LT-6						
LT-7						
HT-1						
HT-2 (a)						
HT-2 (b)						

HT2C						
HT-3(a)& (b)						
HT-4						
HT-5						
Sub Total (Other than BJ/KJ and IP)						
BJ/KJ						
IP						
Sub Total (BJ/KJ and IP)						
Grand Total						

b. Energy Sales

Energy in MUs

Category	2015-16 Actuals		2016-17 Actuals		2017-18	
	1 st April 2015 to 30 th Nov 2015 (cumulative)	1 st Dec 2015 to 31 st March 2016 (cumulative)	1 st April 2016 to 30 th Nov 2016 (cumulative)	1 st Dec 2016 to 31 st March 2017 (cumulative)	1 st April 2017 to 30 th Nov 2017 (cumulative actuals)	1 st Dec 2017 to 31 st March 2018 (cumulative Estimate)
LT-2a						
LT-2b						
LT-3						
LT-4 (b)						
LT-4 (c)						
LT-5						
LT-6						
LT-6						
LT-7						
HT-1						
HT-2 (a)						
HT-2 (b)						
HT2C						
HT-3(a)& (b)						
HT-4						
HT-5						

Sub Total (Other than BJ/KJ and IP)						
BJ/KJ						
IP						
Sub Total (BJ/KJ and IP)						
Grand Total						

5. Sales to HRECS:

The HESCOM has indicated the energy sold to the HRECS for the FY17 as 312.24 MU at page 50 of the filing. Even though the HRECS in its filing has indicated the same as 312.24, it has stated that the above includes energy requirement of AEQUS also.

For the FY19, the HESCOM has indicated sales to HRECS as 325.60 & to AEQUS as 26.83 at page 105 of the current filing, totaling to 352.43 MU, whereas HRECS in its P & L account of current filing has indicated it as 375.40 MU including sales to AEQUS. The HESCOM shall reconcile the above figures.

6. RPO-the FY19:

the HESCOM shall furnish the estimates for complying with solar and non-solar RPO for 2018-19 including the cost implication for purchasing RECs, if any. In this regard the HESCOM shall furnish the following details pertaining to the HESCOM duly tallying with the renewable energy purchase estimates made for the FY19:

Source	Capacity under PPA in MW as on 30.11.2017	Anticipated MW capacity addition under PPA during the remaining period of the FY18	Anticipated MW capacity addition under PPA during the FY19
Wind			
Mini-hydel			
Co-generation			

Biomass			
Waste to Energy			
Solar			

7. **Wheeling Charges**

the HESCOM has proposed wheeling charges of 30.55 paise/unit and 71.29 paise/unit for HT network and LT network respectively. Further the HESCOM has proposed technical losses of 7% for HT and 8% for LT network.

the HESCOM has stated that the same is applicable to all the open access/wheeling transactions except for energy wheeled from NCE sources to the consumers in the State. However, the HESCOM has not indicated in its petition the charges applicable to RE sources.

8. Cross subsidy surcharge:

For the FY19 the HESCOM has proposed the following CSS:

Amount in Rs.

Voltage level	HT-1	HT-2a	HT-2b	HT-2C	HT-4	HT-5
66kV & above	48.67	254.07	358.81	208.46	172.33	991.92
HT-11kV or 33 kV	-44.31	161.09	265.82	115.47	79.34	898.94

the HESCOM shall clarify as to whether the CSS has been computed as per the methodology specified in the Tariff Policy,2016. If not the HESCOM shall file CSS proposal as per the above policy. Further, if the CSS computed is negative, it shall be made zero.

B. Sales to IP Sets the FY19:

- a. The HESCOM was directed to furnish feeder-wise IP- set consumption based on the feeder energy meters' data to the Commission, every month in respect of agriculture feeders segregated under NJY. But, the HESCOM has not submitted the monthly IP-set consumption regularly to the Commission. the HESCOM is required to justify its

projection of IP-consumption for the FY19 as per the energy recorded on the segregated agricultural feeders.

- b. The HESCOM has stated that the number of installations projected using the CAGR for FY18 & the FY19 as 6,94,842 & 7,28,201 respectively but it is also reported that it will continue to retain the number of installations as 7,62,368 & 7,74,703 for the FY18&the FY19 respectively, as approved in the Tariff Order dated 30th March 2016. **Therefore, the number of installations have to be correctly projected for the FY18 & the FY19 taking into account the number of installations serviced up to November 2017 plus the number of installations likely to be serviced including under-regularization of unauthorized IP sets minus number of IP sets identified as not-in-use / dried-up. Accordingly, the HESCOM shall project the number of installations correctly for the FY18 &the FY19.**
- c. **Further, the HESCOM has stated that it will retain the projections for the FY 18 & the FY19 at 5,974.38 MU & 6,222.08 MU as approved by the Commission in its Tariff Order dated 30th March 2016. Therefore, to arrive at specific consumption for the FY19, correct number of installations have to be considered as above.** Therefore, the HESCOM shall submit the month-wise consumption of all the agricultural feeders segregated under NJY Scheme for the FY17 and also for the FY 18 (from April, to November, 2017) in the following format, **clearly indicating the energy input to the feeders on the basis of energy meters reading data (initial reading-final reading* constant).**

Month	Name of Sub-division	Name of Segregated Agriculture Feeders in the subdivision	Initial energy meter reading in the feeder	Final energy meter reading in the feeder	Meter constant	Monthly Consumption in MU as recorded in all the agricultural feeders at the substations pertaining to the Sub division	Distribution loss(11kV line, DTCs.& LT line) Plus sales to other consumers if any, in MU (losses in all the agri. feeders only to be considered)	Net consumption duly deducting the Distribution loss (11kV & LT) & any other loads if any	No. of IP sets (total-dried up) connected to the agri. feeders in the subdivision			Average consumption of IP / month (specific cons in units /IP/month)	Total no of IP sets in the subdivision (as per DCB)			Total sales of IP sets in MU
									Beginning of the month	Serviced at the end of month	Mid- month		Beginning of the month	Serviced at the end of month	Mid- month	
1	2	3	3a	3b	3c	4 = (3b-3a) *3c	5	6=(4-5)	7a	7b	7c = (7a - 7b) / 3	8=6/7c	9a	9b	9c = (9a - 9b) / 3	10=8 *9c

																	+	7)	/	2								+	9)	/	2				
Ap ril 20 16	Subd iv-1																																				
To	Subd iv-2																																				
M ar- 17	Subd iv-3																																				
	Subd iv....																																				
Total																																					
Ap ril 20 17	Subd iv-1																																				
To	Subd iv-2																																				
No v- 17	Subd iv-3																																				
	Subd iv																																				

Note:

- (1) If the agricultural feeders are not yet segregated under NJY in any sub-division, then the specific consumption of the division / circle / zone / company (where NJY is taken up) shall be considered to compute the IP consumption of such sub-division.
- (2) No. of dried up IP-set installations shall be deducted from the accounts, while arriving at the month-wise and subdivision-wise specific consumption and total sales.

d. During the ESCOMs & KPTCL Review meeting held on 25.10.2017, the HESCOM was directed to complete enumeration of IP sets by November 2017, to identify defunct/dried up wells in the field and take further necessary action to arrive at the correct number of IP sets in its jurisdiction on the basis of the enumeration report. The HESCOM has not furnished compliance on this. The HESCOM shall furnish compliance on this issue in order to arrive at the correct number of live IP installations/consumption and for projecting the correct number of installations/consumption for the FY19. In that meeting, the HESCOM had submitted that out of 1,53,997 number of IP sets (for which GPS survey is completed), 3,227 number of IP sets have been declared as not-in-use/dried up installations. That means, 3,227 number of installations or the latest total number of identified dried up installations shall have to be deducted from the number of installations it has shown in its D2 statement for the FY19 (from April, 2017 to November, 2017). **Accordingly, month-wise/ total IP consumption and specific consumption should have to be revised. The HESCOM shall submit the revised consumption based on the number of installations to be revised for the FY19 taking into account GPS survey data. In the**

absence of submission of GPS based survey report of actual number of live IP sets, the Commission will not consider the revised IP consumption for the FY19 as proposed by the HESCOM.

C. Power Purchase for the FY19:

the HESCOM shall provide the quantum and cost of solar energy for the FY19 considering the energy purchased from April, 2017 to November, 2017 and projected energy for the period from December, 2017 to March, 2018, duly considering the projects which are likely to be commissioned up to 31.03.2018. The following data shall be furnished:

Type of Solar Plant	Capacity in MWp	Estimated Energy and cost for the FY17		Estimated Energy and cost for the FY18		Whether Approved by the Commission
		Qty(MU)	Cost(RS Cr)	Qty (MU)	Cost (RS Cr)	Yes/No
1-3 MW Projects allotted to Farmers by KREDL.						
1150 MW Projects Taluk wise issued by KREDL.						
970MW Projects entered PSA with SECI						
Solar Park						
Others MW projects through competitive biddings						
SRTPV projects i. 500kW & above ii. more than 500kW						

D. In the case of Renewable Energy (excluding Solar), the HESCOM is required to consider the latest actual available data of the FY18 (till the end of November, 2017) and projects which are likely to be commissioned up to 31.03.2018, for projecting the power purchase for the FY19, which shall also include the projects to be commissioned up to 31.03.2019.

E. the HESCOM shall furnish an abstract of month-wise, source-wise energy requirement projected for the FY19 duly tallying with the D1 Format.

F. the HESCOM shall furnish the basis for the Tariff consideration for BTPS unit-III.

G. Capital Expenditure for the FY19:

the HESCOM has proposed a capex of Rs.1298.16 Crores for the FY19 against Rs.732.55 Crores as approved in the MYT order dated 30th March, 2016. The category-wise capex revised is shown in the table below:

Capital expenditure proposed by the HESCOM for the FY19

Amount in Rs. Crores

Sl. No.	Scheme	MYT Approved for the FY -19	Revised proposal for the FY-19
1	Mandatory works, Social obligation and other works		
a	Gangakalyan IP sets	25	50
b	Special Development Plan for backward talukas under Nanjundappa scheme(SDP)	20	20
c	Electification of Hamlets(Not covered under RGGVY)	1	10
d	Electification of HB/DB/JC/AC (Habitations) under SCP (Not covered under RGGVY)	0.5	20
e	Electification of TC(Habitations) under TSP (Not covered under RGGVY)	0.5	10
f	Electification of BPL Households (Not covered under RGGVY)	1	2
g	Water works	5	25
h	RGGVY	3	6
i	DDGUVY	100	100
j	Maadari Grama		65
	Sub - total	156	308
2	Expansion of network and system improvement works.		
a	E & I works.	25	85
b	Energization of IP sets under general.		8
c	Energization of IP sets as per GOK	125	100
d	Service connections other than IP/BJ/KJ/Water works.	30	20
e	Construction of new 33 KV stations and lines.	4	30
f	Augmentation of 33 KV stations.	3	20
g	Construction of 11 KV lines for 33 KV / 110 KV sub-stations.	5	25
h	Nirantar Jyoti Yojana.	40	10
		30	70
i	Providing prepaid meters to temporary installations		5.4
j	Providing numerical relays to provide power supply to farm houses		7.3
k	Providing 16KVA Transformers for A/P/S to farm houses in Chikodi Division		6.2

l	R- APDRP.	20	5
m	R-APDRP exclusively for Modem and meters	1	2
n	IPDS IT initiative Phase II		10
o	IPDS	50	60.01
ii	Sub - total	333	463.91
3	Reduction of T & D and ATC loss		
a	Providing meters to un-metered IP sets.	0.05	0.25
b	Providing meters to un-metered BJ/KJ installations.		2
c	Replacement of faulty / MNR energy meters by static meters.	5	10
d	Replacement of more than 10 year old electromechanical energy meters by static meters.	50	25
	Fixing of boxes to Single Phase Meters		25
e	DTC's metering (Other than APDRP)	25	35
f	Replacement of 33 KV lines Rabbit conductor by Coyote conductor.	5	15
g	Replacement of 11 KV lines Weasel conductor by Rabbit conductor.	10	25
h	Replacement of age old LT conductor by Rabbit conductor.	6	20
i	HVDS (Pilot project for 1 district/year)	1	20
j	NEF (REC) for replacing 11 KV OH feeders by UG Cables in Hubli and Belgaum cities.	100	70
iii	Sub - total	202.05	247.25
4	New initiatives works		
a	IT initiatives, automation and call centre	1	6
b	Installation of energy efficient motors		
c	Smart grid/sprinklar/drip irrigation system	0.5	5
d	Providing solar roof tops to the HESCOM office buildings	2	20
e	Establishing ALDC & SCADA.	1	3
f	Thermal Imaging and GIS Mapping of DTCs	5	
g	Special pilot project for Statergic Business Centre at Shiggaon sub-Division	1	
h	Special pilot project for Statergic Business Centre at Gadag Division		1
i	Smart City /Smart Meters		50
j	DSM Projects		1
iv	Sub - total	10.5	86
5	Replacement and other miscellaneous works		
a	Replacement of failed distribution transformers.	5	10
b	Replacement of Power Transformers.	2	8
c	Replacement of old and failed equipment and other works of existing 33 KV stations and lines.	3	10
d	Preventive measures to reduce the accidents. (Providing intermediate poles replacement of deteriorated conductor, DTC earthing etc.)	5	25
e	T&P materials.	1	5
f	Creating infrastrucutre to UAIP Sets	10	15
g	Civil Engineering works.	5	35
	Refurbishing works on HT/LT/DTC in O & M Divisions		85
v	Sub - total	31	193
Total (i+ii+iii+iv+v)		732.55	1298.16

The HESCOM has stated that, the Works such as Reconductoring of 33/11/LT lines, construction of 33 KV stations, providing new feeders/Link lines/express lines from the newly commissioned substations, augmentation of stations, NJY Phase I, II & III, Construction of 11 kV link lines for load bifurcation etc. are included with higher capex. The HESCOM needs to furnish the reasons for increasing the capex and furnish the details of benefits which has accrued out of such capex in the previous years.

Also, it is to be noted here that, the HESCOM has furnished the capex expenditure incurred for the FY18 (till September, 2017) at Rs.432.67 Crores in page No. 73 & 74 only. But, it has not indicated the likely expenditure to be incurred at the end of the FY18. The HESCOM needs to furnish the expenditure it is likely to incurring till March, 2018.

The HESCOM has stated that, it has revised the capex for the FY18 from the Commission approved capex of Rs.743.55 Crores to Rs.1199.71 Crores. But, the proposals for an increase capex has not been approved by the Commission. The Commission notes that the HESCOM has been repeatedly approaching the Commission for approval of its proposed Smart metering schemes in Hubli, Dharwad and Belagavi Cities, for which the Commission has approved only a pilot project to be taken up in one O&M Section. The HESCOM shall explain the reasons for increasing the capex of the FY18 and submit amount of the likely expenditure till the end of March, 2018.

From the table above, the following observations are made on the capex revision proposed by the HESCOM:

- i. In the case of Electrification of Hamlets (Not covered under RGGVY) & Electrification of TC(Habitations) under TSP (Not covered under RGGVY), it has increased the capex from Rs.1 Crores to Rs.10 Crores each. The HESCOM needs to explain the reasons for these increase and furnish the works carried out in this category during the last three years.

- ii. In the case of Electrification of HB/DB/JC/AC (Habitations) under SCP (Not covered under RGGVY, it has increased the capex from Rs.0.5 Crores to Rs.20 Crores. The HESCOM needs to explain the reasons for this increase and furnish the details of works carried out in this category during the last three years.
- iii. In case of "Maadari Grama", it has indicated a capex of Rs.65 Crores. The HESCOM needs to furnish the details of the scheme and the type and Number of works it is going to take up under Maadari Grama in its jurisdiction.
- iv. In the case of E&I works, the HESCOM has indicated an increased capex of Rs.85 Crores as compared to approved capex of Rs.25 Crores. The HESCOM needs to furnish the details of E&I works carried out during the FY17 and the FY18 with an analysis of how it has impacted the performance of its Distribution network.
- v. In the case of Replacement of more than 10-year-old electromechanical energy meters by static meters, it has reduced its capex from Rs.50 Crores to Rs.25 Crores. The HESCOM should clearly indicate the remaining EM meters in its jurisdiction and whether, it would be completing the replacement by the FY19.
- vi. It is to be noted that, the HESCOM has been writing to the Commission about the proposed smart metering programme in major cities, but the programme has not been brought out in the proposed capex in the above categories.
- vii. In respect of the following schemes, the HESCOM has been proposing capex every year and now for the FY19, it has increased the capex outlay. The HESCOM shall furnish the need for taking up of these projects and shall furnish the techno-economic analysis of the schemes.

Category of Works	Approved capex Rs. Cores	Proposed increase Rs. Cores
DTC's metering (Other than APDRP)	25	35
Replacement of 33 KV lines Rabbit conductor by Coyote conductor.	5	15
Replacement of 11 KV lines Weasel conductor by Rabbit conductor.	10	25

Replacement of age old LT conductor by Rabbit conductor.	6	20
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- viii. Further, it is to be noted that, the HESCOM needs to bring all the E & I sub works under the heading of E & I works, such that, the total amount being proposed for E&I works would be clearly indicated and would be easy for monitoring also.
- ix. the HESCOM shall furnish the reasons for increase/decrease of capex in each category of works without fail.

H. Distribution Loss:

1. The actual distribution loss reported by the HESCOM for the FY17 is 15.56% as against 16% approved by the Commission in its Order dated 30th March, 2016. The actual distribution loss of 15.56% as reported by the HESCOM for the FY17 is higher by 0.44% than the approved losses. As discussed in the observations on sales to IP Sets, the Commission notes that, there is increase in IP Set consumption and decrease in metered sales in other categories of consumers. Since the IP Set sales is not backed up by the consumption figures on the basis of segregated feeder-wise data under NJY, the Commission is unable to accept the distribution loss figures claimed by the HESCOM. Hence, feeder wise number of IP sets along with consumption figures based on segregated feeders besides Division wise data of numbers and consumption of IP sets as per DCB shall be furnished along with connected load.
2. The Commission, in its Order dated 30th March, 2016 has fixed the distribution losses at 15.50% and 15% for the FY18 and the FY19. The HESCOM in the present filing has retained the same distribution losses as approved by the Commission for the FY18 and the FY19. Considering the substantial capital investment incurred in the recent past and proposed higher Capex for the FY18 and the FY19, and the achievement made in reduction of distribution loss levels from 18.05% in the FY14 to 15.56% in the FY17, the HESCOM is required to reassess the distribution losses for the FY18 and the FY19.

3. Further, the HESCOM shall furnish the data of Energy Audit for Town and Cities in the following format considering the annual energy sale and input energy at the feeder levels:

Name of the Town/City	the FY17			the FY18 (Cumulative as at the end of Nov, 2017)		
	Energy Input in MU	Energy Sold in MU	% Distribution Losses	Energy Input in MU	Energy Sold in MU	% Distribution Losses
TOTAL						

I. Observations on Revenue & Expenditure:

- i. The HESCOM in its filing has computed the additional employee's cost on account of recruitment of new employees cost at Rs.18.73 Crores and Rs.47.73 Crores for the FY18 and the FY19 respectively. But under format D6, the HESCOM has considered Rs.18.73 Crores for the FY18 and Rs.66.46 Crores for FY19, by including the cost proposed for the FY18 once again for the FY 19. The HESCOM shall furnish the reasons for inclusion of Rs. 18.73 Crores of the FY18 even in the ARR of the FY19 besides recasting the O&M expenses for the FY19.
- ii. The HESCOM in its filing under format D6 has factored Rs.118.89 Crores towards contributions to P&G Trust for the FY19. the HESCOM shall furnish the calculation sheet for claiming this amount duly considering the Actuarial valuation report.
- iii. The HESCOM shall furnish the detailed break-up of expenses in respect of following amounts incurred / projected for the FY17 to the FY19.

SLNO	the FY17	the FY18	the FY19
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1	Other Professional charges	Rs.33.56 Crores	Rs.36.01 Crores	Rs. 38.97 Crores
2	Conveyance and Hiring charges	Rs.32.13 Crores	Rs.34.48 Crores	Rs.37.31 Crores
3	Contribution/Donations	Rs.1.80 Crores	Rs.1.93 Crores	Rs.2.09 Crores
4	Consultancy Charges	Rs.1.05 Crores	Rs.1.13 Crores	Rs.1.22 Crores

- iv. The HESCOM shall furnish the revised Format- D-9, duly bifurcating the long term and short term loan details. The HESCOM shall also furnish the details of loan amount sanctioned, loan availed, repayment, rate of interest, amount of interest, and purpose of loan with OB and CB for the FY17 to the FY19.
- v. The HESCOM in its filing has not factored any amount of interest and finance charges capitalized for the FY17 to the FY19. Considering the actual and the proposed capital loan availed during the FY17 and the projected capital loan for the Capex and the expenditure and interest on capital loan thereon for the FY17 and the FY19, the HESCOM shall furnish the reasons for not factoring the capitalized portion of interest and finance charges for the FY17 to the FY19.
- vi. The HESCOM in its filing under Format- D-11: Other Debits, has considered Rs. (-)0.61 Crores as Bad debts written off and provided for the FY17. the HESCOM shall furnish the details for bad debts written off and the provision made for Bad & Doubtful Debts amount included in this amount separately for the FY17. Further, the HESCOM has considered an amount of Rs.11.02 Crores as Other Debits for the FY19. the HESCOM shall furnish the provisions for claiming such amount in the ARR for the FY19.
- vii. The HESCOM shall furnish the amount of the subsidy claimed and received from GoK along with sales figures in respect of BJ/KJ and IP set installations for the FY17.

- viii. The HESCOM shall furnish the amount of equity received from the GoK along with the details of the Government Orders number and date and the actual date of receipt during the FY17 and up to November, 2017 during the FY18.
- ix. The HESCOM shall furnish the details for the expenditure incurred towards consumer relations/education for the FY17.
- x. The HESCOM in its filing, while projecting the revenue from sale of power under Format- D-2, has not considered the delayed charge from consumers for the FY18 and the FY19, though the actual for the FY16 and the FY17 is Rs. 87.48 Crores and Rs.86.76 Crores as per the audited accounts. the HESCOM shall furnish the reasons for not considering delayed charge from the consumers, besides recasting the same for the FY19.

Further, the HESCOM under the same format has considered Rs 204.93 Crores and Rs.108.60 Crores as Registration fees towards SRTPV for the FY18 and the FY19 as against the actual amount as per the audited account of Rs 0.02 Crores for the FY17. the HESCOM shall justify its claims.

- xi. The HESCOM in its filings under format D12-Extraordinary items, has claimed an amount of Rs.102.90 Crores each for the FY17 to the FY19 towards adjustment of excess subsidy received during the FY08 as per the Government Order No.EN 38 PSR 2015 dated 30.03.2016. Though this amount being the recovery/adjustment of the excess subsidy amount released by the Govt during the FY09, in annual 5 instalments from the subsidy amount to be released from the FY2015-16 onwards, the HESCOM has included this amount in the APR for the FY17 and ARR for the FY18 and the FY19. the HESCOM shall justify its claims.
- xii. The HESCOM in its filings under format A1 has claimed an amount of Rs.28.45 Crores as other interest and finance charges in the APR as per the audited accounts for the FY17 which is considered as very high when compared with previous years amount. The HESCOM shall furnish the details for the same.

xiii. The HESCOM in its filing has indicated the existing and the proposed ToD tariff rate of (+)125 and (-)100 paise per unit as against the existing approved rate of (+)100 and (-)100 paise per unit. the HESCOM shall rectify the error and submit the revised proposal for the FY19.

xiv. Simplification of Tariff:

All the other ESCOMs, in their Tariff Applications have informed that the detailed report on the Simplification of Tariff being prepared by a Committee appointed by the GoK, has been submitted to the Energy Department. The HESCOM shall submit its comments on the said Report, along with its recommendations to implement the same.

xv. The BESCOM in its filings has proposed the following new proposals. The HESCOM shall examine the same and submit its comments and in case it wants to implement them, it shall furnish necessary justification on each of these proposals:

- i. Separate Tariff for 1 MW and above consumers:
- ii. Additional charges for maximum demand exceeding the C.D:
- iii. Increase in Re-connection charges:
- iv. Billing Cycle for Temporary installations:
- v. Separate Tariff for battery charging facility for motor vehicles:

J. Compliance to directives issued by the Commission

Sl. No	Directives issued by the Commission	Observations made
1	Consumer interaction meeting at Subdivision level.	It was directed to conduct consumer interaction meetings at Subdivision level chaired by the SEE once in a quarter to redress consumer complaints. The HESCOM has submitted the details of consumer interaction meetings conducted in all the subdivisions in 1 st

		<p>& 2nd quarter of the FY18 on one fixed day i.e., 3rd Saturday. If such meetings are conducted on one day in its entire area covering all subdivisions, it is not possible for the SEE or EE of the circle/division to attend and chair the meetings. The dates of such meetings in subdivisions should have been spread over in a quarter so that SEE or EE can attend and chair all the meetings. As per the directive, the ESCOMS need to upload the proceedings /photographs of the consumer participation in such meetings however, the HESCOM has not complied to this.</p> <p>The HESCOM shall furnish compliance thereon.</p>
2	<p>Directive on preparation of energy bills on monthly basis by considering 15 minute's time block period</p>	<p>The HESCOM shall furnish the month-wise details of number of open access consumers sourcing power from power exchange, open access units scheduled/consumed in MU and illegally banked energy if any.</p>
3.	<p>Directive on Energy Conservation</p>	<p>The HESCOM was directed to service all the new installations only after ensuring that the BEE ***** (Bureau of Energy Efficiency five-star rating) rated Air Conditioners, Fans, Refrigerators, etc., are being installed in the applicant consumers' premises and also to service all streetlight installations with LED/energy efficient lamps. The HESCOM has not submitted compliance on the above directive regularly.</p> <p>The HESCOM has not submitted the details of servicing of all streetlight installations with LED/energy efficient lamps in its jurisdiction. The HESCOM shall submit compliance on the same.</p>
4.	<p>Directive on implementation of Standards of Performance (SoP)</p>	<p>The HESCOM was directed to display the SoP parameters in all its O&M subdivisions and O&M Sections. But, it has not submitted details of number of subdivisions/sections covered and the balance, if any, to be covered and the timeline by which the balance subdivisions/sections will be covered. The HESCOM shall to clarify on this.</p>
5.	<p>Directive on use of safety gear by linemen:</p>	<p>The Commission had directed the HESCOM to sensitize the linemen about the need for adoption of safety aspects in their work through suitably designed training and awareness programmes. However, the HESCOM has conducted training for only 60 linemen during the FY17, as the per its compliance. The HESCOM is required to ensure full compliance on the above and also furnish the details of number of linemen presently provided with complete set of safety gear and the balance linemen to be provided with the complete set of safety</p>

		gear safety gear.
6	Directive on providing Timer Switches to Streetlights by ESCOMs	The HESCOM has not submitted the quarterly compliance report in respect of installation of timer switches, to the Commission. the HESCOM shall furnish the reasons for delay in taking up this work by itself (and later collect the cost from the local bodies) as directed and also the timeline by which it would complete the programme.
7	Directive on Load shedding	The HESCOMs is not submitting to the Commission, its projections of availability and demand for power and any unavoidable load shedding for every succeeding month in the last week of the preceding month for approval regularly. The HESCOM shall submit compliance in this regard.
8	Directive on establishing a 24X 7 fully equipped centralized consumer service centers	The HESCOM shall furnish the details such as the total number of service stations established in the subdivisions/Sections, balance service stations required to be established and the likely time line for establishing the remaining service stations for addressing consumer complaints effectively.
9	ENERGY AUDIT	<p><u>Energy Audit of cities / towns</u></p> <p>The HESCOM is not furnishing the energy audit reports regularly to the Commission. the HESCOM shall furnish the same up to November, 2017.</p> <p><u>DTCs Energy Audit:</u></p> <p>The HESCOM has not submitted in its application the details of number of DTCs existing at present, number of DTCs provided with meters and the balance DTCs to be provided with meters. The HESCOM shall submit the details of the same. Further, the HESCOM was required to furnish the details of energy audit conducted in respect of DTCs for which meters have already been fixed and the details of remedial measures initiated to reduce losses in those DTCs wherever the loss levels are at higher levels and the timeline by which all the remaining DTCs will be metered.</p> <p>However, the HESCOM has not submitted the details of energy audit conducted in respect of around 36,000 DTCs for which meters have already been fixed as reported by it. It is stated that energy audit of around 13000 DTCs is being done, but the analysis is not furnished.</p> <p>The HESCOM shall submit the same and also the timeline by which all the remaining unmetered DTCs will be metered.</p>
10	Implementation of NJY	The HESCOM shall furnish the reasons for delay in commissioning the feeders under phase 1, 2 and 3 and the progress of NJY up to November 17 shall be given. The HESCOM shall also furnish the analysis report indicating the benefit accrued to the system in respect of feeders which have been commissioned.
11	DSM in Agriculture	The progress is the same as last year, the HESCOM shall also furnish the timeline by which all the targeted IP sets would be replaced with energy efficient IP sets in Nippani & Badagi subdivisions.
		The HESCOM was directed to cover 5% of the total identified un-electrified

12	Electrification of un-electrified Households	households every month beginning from April, 2015 and submit compliance thereon. There is inordinate delay in electrification of unelectrified households. The HESCOM shall furnish the reasons for delay in electrification of unelectrified households under various schemes and the likely time line for completion of all such works.
13	Subdivision as Strategic Business Units (SBU)	The HESCOM has not implemented the directive on Financial Management Framework to assess the performance of the divisions/subdivisions. In this regard, the HESCOM shall submit the reasons for not implementing the directive.
14	Prevention of Electrical Accidents	<p>The HESCOM has not submitted the Division wise action plan to minimize accidents. It has also not submitted the details of number of hazardous installations identified, rectified and the remaining installations to be rectified in the distribution system for the FY17.</p> <p>The HESCOM is required to furnish the details of number of hazardous locations/installations identified in its distribution network in the FY17 up to November, 2016.</p>
