

BESCOM

Preliminary Observations on the Applications filed by the BESCOM for approval of APR for FY20 and ARR & Retail Supply Tariff for FY22 under MYT Framework

1. Annual Performance Review for FY20

The Commission, in its Tariff Order, 2019, dated 30.05.2019, had approved total sales to various consumer categories at 28858.33 MU as against the BESCOM proposal of 28911.77 MU. The actual sales of BESCOM, as per the current APR filing [D-2 FORMAT] is 27834.60 MU, indicating a shortfall in the sales to the extent of 1023.73 MU as compared with the approved sales.

The category-wise sales approved by Commission in Tariff Order-2019 and the actuals for FY20 is indicated in the table below:

Category (1)	Actual Sales –MU (2)	Approved Sales-MU (3)	Difference –MU (4=2-3)
LT1 BJ/KJ <=40 units/month	177.65	137.9	39.75
LT1 BJ/KJ >40 nits/month	46.78	45.98	0.8
LT-2a	7285.82	7476.86	-191.04
LT-2b	56.57	54.82	1.75
LT-3	2240.82	2247.16	-6.35
LT-4 (a)	6916.36	6625.09	291.27
LT-4 (b)	1.35	1.73	-0.38
LT-4 (c)	5.67	4.54	1.13
LT-5	1217.67	1269.19	-51.52
LT-6 WS	1317.30	1352.55	-35.17
LT-6 SL	524.64	513.92	10.72
LT-7	205.45	141.02	64.43
HT-1	762.04	715.85	46.19
HT-2 (a)	4173.06	4866.56	-693.5
HT-2 (b)	2345.62	2819.19	-473.57
HT-2(c)	331.55	380.51	-48.99
HT-3(a) & (b)	58.42	47.4	11.02
HT-4	78.30	70.38	7.92
HT-5	89.48	87.67	1.81
Grand total	27834.55	28858.32	-1023.73
Sales to categories other than BJ/KJ <= 40units/month & IP sets	20740.59	22095.34	-1354.75
Sales to BJ/KJ <= 40units/month & IP sets	7094.01	6762.99	331.02

From the above table, it is noted that the major categories contributing to the reduction in sales with respect to the estimates are LT2a, LT5, LT-6 WS, HT 2a, HT2b & HT2c categories. On the other hand, major categories contributing to the increase in sales with respect to the estimates are BJ/KJ consuming less than or equal to 40 units/month/installation, LT-4a, LT-7, HT-1 and HT-3 categories. The LT-4a sales is discussed separately.

BESCOM in its Tariff Petition has stated that:

- a. The sales reduction in LT-2a is due to demand side management initiatives, like installation of LED lights, solar water heaters etc. While BESCOM has computed energy savings of 1325.01 MU, considering the cumulative numbers of LED bulbs, 5-star rated ceiling fans and solar heaters, the actual reduction in LT2a sales is only 191.04 MU compared to approved sales. **Hence, BESCOM is directed to compute the incremental savings due to DSM program during FY20, considering the LED lights/fans, solar water heaters etc. added during FY20 and accordingly furnish the data.**
- b. BESCOM shall furnish the reasons for reduction in LT-5 & LT-6 WS sales and increase in sales to BJ/KJ consuming less than or equal to 40 units/month/installation, HT-1 Water supply & HT-3 categories.
- c. The reduction in HT sales is attributed to consumers opting for Open access/group captive. The total sales under open access has increased by 343.28 MU (4604.28-4260.80) in FY20, which explains the reduction in HT sales.
- d. **BESCOM shall confirm as to whether the category-wise sales indicated in D-2 Format, is excluding unbilled sales. If unbilled sales are included, category-wise break up of unbilled sales shall be furnished.**
- e. **The specific consumption of LT-2a category works out to 73.38 units/installation/month, whereas the same for BJ/KJ installations consuming more than 40 units/month is 84.64 units/installation/month, which appears to be higher. BESCOM shall furnish the reasons for such**

high specific consumption in BJ/KJ installations consuming more than 40 units/month.

2. Category-wise sales for FY22:

(i) Observations on Sales- Data inconsistency:

- a. As per D-2 Format, for FY22, sales to LT2(a)(i) is 6902.75 MU, whereas as per D-21 Format, it is 6960.10 MU.
- b. The mid-year installations under LT-2a should be 8768016 and not 8829633 as indicated in D- 21. This needs to be clarified.

(ii) The estimated sales for FY21 is lower than that in FY20 by 3348.96 MU and in FY22 by 2218.52 MU. BESCO shall explain the reasons for such considerable reduction in sales even for FY22 as the total daily consumption in the State is steadily increasing on the basis of SLDC daily consumption statement.

(iii) BESCO shall furnish the details of how revised sales for FY21 are estimated.

(iv) BESCO has stated that, for FY22, energy sales estimate is computed considering the CAGRs for ten years to one year and an empirical formula is made use of. BESCO has submitted that, for most of the categories, sales are estimated based on empirical formula and wherever the growth is negative, sales of FY21 is retained. BESCO has also made following submissions:

- i) Actual category-wise sales of FY20 is considered for computing CAGR.
- ii) Half-yearly sales upto September-2020 is considered.
- iii). For BJ/KJ, the estimated sales for FY21 based on half-yearly sales is retained for FY22, as there is no new scheme announced by GoK.
- iv) IP set consumption is computed based on specific consumption of 7200 units/IP/annum for FY22.
- v) For LT4b, HT-2a, HT-2b and HT-4 for FY22, the estimated sales of FY21 is retained, as the growth rate is negative.

Regarding, the empirical formula, the Commission in its Tariff Order 2020 has directed BESCOM not to adopt the empirical formula for the reasons stated in the said order. However, BESCOM has continued to adopt the same formula. BESCOM shall furnish the reasons for the same.

- (v) Regarding the estimates on the number of installations, BESCOM has stated that for FY21, the number of installations is computed by adding the half yearly growth of consumers to first half of FY21 and for FY22 based on one-year CAGR, with few modifications as below:
- a. For BJ/KJ, the number of installations as on September 2020 is retained for FY21 & FY22.
 - b. For LT4b category, FY21 number of installations is retained as CAGR is negative.
 - c. c. For HT4, 3-year CAGR is adopted as 1-year CAGR is 63% which is exorbitant.

As the first 6 months period during FY21 is suffered with economic slowdown on account of total lock down and other measures / restrictions imposed by GoI / GoK on account of COVID 19, the new connections serviced in the same period is very minimum. As such the estimated computation made by BESCOM for FY21 does not give realistic estimation. Based on this, the estimate for FY22 also may not be realistic. BESCOM by considering these aspects shall be re-assess the estimate for FY21 and FY22.

(vi) BESCOM shall furnish reasons/replies on the following observations of the Commission which are discussed below:

- a) In case of LT (1) – BJ/KJ category, BESCOM shall compute the BJ/KJ sales for FY21 and FY22, based on the specific consumption of FY20, instead of considering FY21 half-year consumption.
- b) In case of LT-2a(i) Category the increase in sales in FY21 over FY20 is only 8.38 MU, whereas for FY22, the increase proposed is 364.26 MU over FY21.
- c) In case of LT2(b)(i) & (ii), LT3(i) & (ii), LT-5(a) & (b) and LT-7 categories, even though there is increase in number of installations, the sales estimates for FY21 and FY22 is lower than that for FY20.

d) In the case of HT-2(a)(i) & (ii), HT-2(b)(i) & (ii), HT-2(c) (i) & (ii) and HT-4a, even though the number of installations has increased in comparison to FY20, the estimated sales for FY21 and FY22 is lower than that of FY20.

e) In case of HT-3(a)(i), the sales in FY20 was 55.22 MU, whereas for FY22, the estimated sales are 171.54 MU, which is about 3-times the sales in FY20.

f) The table indicating the growth rates for the no. of installations is furnished below:

Category	Percentage Growth Rates in no. of installations			
	2014-15 to 2019-20 CAGR	2016-17 to 2019-20 CAGR	FY20 growth over FY19	Growth rate proposed by BESCO for FY22
LT-2a	5.34	4.97	4.89	4.89
LT-2b	4.77	3.34	2.96	2.96
LT-3	5.76	4.82	4.47	4.47
LT-5	4.53	3.99	3.95	3.95
LT-6 WS	7.50	7.68	6.16	6.16
LT-6 SL	3.65	3.71	4.42	4.42
HT-1	7.81	9.70	10.55	8.06
HT-2 (a)	6.50	5.58	4.69	5.10
HT-2 (b)	8.98	9.62	8.06	10.81
HT-2 (c)	16.87	11.19	5.10	9.89
HT-3(a)& (b)	15.26	15.79	10.81	13.19
HT-4	13.66	22.71	9.89	22.71

It is noted that the growth rate proposed by BESCO for LT-2b, LT-3, LT-6 WS, HT-2c and HT-3, is lower as compared with the normal growth rates and is higher for LT-6 SL and HT-2b.

- g) The table indicating the growth rates for the energy sales is furnished below:

Category	Percentage Growth Rates in Energy Sales			
	2014-15 to 2019-20 CAGR	2016-17 to 2019-20 CAGR	FY20 growth over FY19	Growth rate proposed by BESCO for FY22
LT-2a	5.30	4.58	5.30	5.57
LT-2b	6.74	6.91	9.70	5.55
LT-3	6.33	6.04	7.54	6.69
LT-5	1.51	1.54	-2.04	1.21
LT-6 WS	24.77	31.31	10.37	20.83
LT-6 SL	6.09	10.63	4.94	6.21
HT-1	3.04	3.79	4.94	4.49
HT-2 (a)	-1.99	-2.16	-7.53	0.00
HT-2 (b)	-3.04	-3.62	-4.20	0.00
HT-2(c)	12.49	7.08	3.13	7.17
HT-3(a)& (b)	29.47	57.09	27.92	33.79
HT-4	-9.03	-9.72	11.79	0.00

It is noted that the growth rate considered for LT-2a and HT1 is higher as compared with the CAGR and is lower for LT2b and LT5. Hence, BESCO shall consider revising the above growth rates.

3. Observations On Sales to IP sets as submitted by BESCO in Tariff Filing FY21:

i. Sales to IP sets for FY20:

- a. The Commission vide its Tariff Order 2019 has approved the sales to IP sets for FY19 as per APR for FY19 for 7202.32 MU with a specific consumption of 8107.60 unit per IP set per annum against 9,04,463 no. of IP set installations. BESCO in its current filing has indicated the sales to IP sets as 6916.36 MU for FY20 with a specific consumption of 7524.44 units per IP set per annum against 9,33,908 no. of IP set installations. The Commission notes that there is a decrease in the total consumption by 285.96 MU for FY20 as compared to the actuals of FY19.
- b. The details of sales to IP sets for FY20 as approved by the Commission in its Tariff Order 2019 and the actual sales to IP sets during the FY20 as furnished by BESCO, in its Tariff filing for FY22, are as follows (FY20 approved Vs Actuals);

Particulars	As approved by the Commission in TO 2019 for FY20	Actual sales as submitted by BESCOM in Tariff Filing
Number of installations	9,25,047	9,33,908
Mid-year number of installations	9,12,547	9,19,186
Specific consumption in units / installation / annum	7,260	7,524.44
Sales in MU	6,625.09	6,916.36

BESCOM shall furnish the reasons for increase in the specific consumption by 264.44 units / installation / annum and the increase in sales by 291.27 MU when compared to the approved figures when there is a very insignificant increase in number of IP installations i.e. by 8,861 nos.

- c. It is also observed that on an average, about 50 feeders are having '0' (zero) consumption every month. While assessing the net consumption for the month of April 2019, the distribution loss is not found to have been deducted and the gross consumption is kept as net consumption in respect of all the feeders. F01-C.N.Halli feeder in O&M Subdivision, Challakere is having '0' consumption during the months of April, May, June of 2019 and the same is not indicated while calculating the consumptions during the months of November, December 2019 and March 2020. Consumption of F03 – T Gopagondan feeders of Nyamathi Subdivision has -0.307 MU consumption in November 2019, F10 – Jalige feeder of Doddaballapura Subdivision has -0.3427 MU in the months of February 2020. BESCOM has to provide suitable explanation in respect of all such variations in the data furnished towards assessment of sales to IP set installations.
- d. BESCOM has considered 10% distribution loss in all the months except May 2019, where it has considered 12.5% of distribution loss. BESCOM has to furnish the reason for considering the distribution loss as adopted above duly furnishing the computation statement for the same.
- e. BESCOM has not furnished the data of GPS survey reconciling with the number of installations in the DCB as on 31.03.2019 and 31.03.2020.
- f. Number of feeders taken for assessment of IP sets in the month of April 2019 is 1,881 whereas the number of feeders in the month of March 2020 is 2,014. BESCOM shall furnish the total, exact number of feeders existing in its area

and the reason for not considering all the agricultural feeders for assessment of IP sets for all the months i.e., from April 2019 to March 2020.

- g. Based on the above points, BESCO has to submit the assessment of sales to IP installations for FY20 giving complete clarity on the data.

ii. Sales to IP Sets for the FY22:

- i. Detailed calculations on number of installations projected for FY22 is not furnished.
- ii. The actual numbers of IP set installations added to the system between April 2020 to September 2020 is 4,533. Whereas, the numbers of IP installations projected for the next 6 months of FY20 is 15,000. BESCO has to furnish the reasons for considering this abnormal number of IP installation in the next 6 months period.
- iii. The reasons for difference in number of installations and sales as approved by the Commission for FY22, in Tariff Order 2019 and the projections considered in Tariff Filing by BESCO is not substantiated with proper justification.
- iv. The number of IP set installations indicated in Format D-21 for FY22 is 9,65,941. Whereas the projected number of IP installations for FY22, as indicated in page 83 of tariff filing is 9,78,441. The reasons for the difference need to be explained.

4. To validate the category-wise sales, the information in the following format shall be furnished by BESCO:

a. No. of Installations:

Category	2018-19 Actuals		2019-20 Actuals		2020-21	
	As on 30 th Nov 2018	As on 31 st March 2019	As on 30 th Nov 2019	As on 31 st March 2020	As on 30 th Nov 2020	As on 31 st March 2021 (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<=40units/month						
BJ/kJ > 40 units/month.						
IP sets-LT-4a						
Sub Total (BJ/KJ and IP)						
Grand Total						

b. Energy Sales

Category	2018-19 Actuals		2019-20 Actuals		2020-21	
	1st April 2018 to 30th Nov 2018 (cumulative)	1st Dec 2018 to 31st March 2019 (cumulative)	1st April 2019 to 30th Nov 2019 (cumulative)	1st Dec 2019 to 31st March 2020 (cumulative)	1st April 2020 to 30th Nov 2020 (cumulative actuals)	1st Dec 2020 to 31st March 2021 (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<=40u						
BJ/kJ > 40						
IP sets LT 4a						
Sub Total (
Grand Total						

5. Capital Expenditure:

A. BESCOM Capex APR FY20:

- a. The Commission, in the Tariff Order-2019 had recognized the Capex expenditure of Rs.1800 Crores as against the Capex of Rs.2165.58 Crores proposed by BESCOM for FY20 subject to prudence check and had directed BESCOM to carry out the capital works, without seeking any additional capex during the middle of the relevant year, by making suitable re-appropriation within the capex amount approved by the Commission. BESCOM in its APR filing has indicated that an amount of Rs.2522.48 Crores has been incurred for FY20, which exceeds the approved capex amount by Rs.356.90 Crores.
- b. In view of the above, BESCOM shall furnish the following details:
 - i. Reasons with justification for exceeding the approved Capex of Rs.2165.58 Crores by Rs.356.90 Crores for FY20.
 - ii. Breakup of sources of funding for each of the category of works during FY20.
 - iii. The statement of comparison of capital expenditure actually incurred with reference to the amounts of expenditure made under different category of works as proposed and recognized by the Commission as per Table 5.3 of Tariff Order 2019, in the format approved by the Commission, with reasons for deviations, if any.
 - iv. As against the provisional expenditure of Rs.2522.48 Cores indicated in the filing in Table 3.18. BESCOM is directed to submit the Actual capital expenditure as per the audited accounts for FY20.
 - v. break up details for actual capex incurred during Fy20 as per the Format-4 annexed.
 - vi. BESCOM, has indicated in its filing under capital expenditure (Table 3.18) that, an amount of Rs.161.19 Crores has been incurred towards replacement of faulty transformers during FY20. It is to be pointed out that any failed transformers shall have to be replaced with a repaired transformers and the expenditure incurred on the repair of transformers need to be booked as revenue expenditure. BESCOM shall furnish the details along with reasons for having incurred such a huge amount of capital expenditure for replacement of failed transformers by new transformers during FY20 under capex.
 - vii. BESCOM shall furnish the details of replacement of failed transformers with new transformers and its cost for FY20 and up to 30.11.2020 during FY21.
 - viii. BESCOM shall furnish the division-wise details of Pump sets energized under Ganga Kalyana Schemes, amount spent, amount of capital grants received from the Government of Karnataka and the balance amount to be received

from the Government of Karnataka and the action taken thereon with documentary evidence.

- ix. BESCO shall furnish the compliance report on the directions issued by the Commission in Tariff order 2019 and 2020 in respect of DAS and other works which are pending for many years. The Commission notes that BESCO has not furnished any of the above details and not complied with the Commission's directives, till date. This clearly shows that BESCO is keen in only taking up new works under capex without any long-term planning and monitoring of the capex incurred. BESCO has not conducted any cost benefit analysis on the huge capex incurred on the distribution system of BESCO, year on year.
- x. The Commission, in its Tariff order 2020, has disallowed the Capex incurred for the following Capital works attributable to BESCO and KPTCL:
 - a) Construction of new 11 KV link line from 66/11 kV Kempanahalli MUSS to Uragahalli Crusher limits for bifurcation of Overloaded F1 Namadhari feeder from 66/11 KV kempanahalli MUSS in Uragahalli O&M Section of Bidadi Sub Division.
 - b) 2x8MVA, 66/11kV substation, Devarabelekere.
 - c) Evacuation of new 11Kv feeders from 66/11KV c station to reduce overload of F14 and F9 feeders of LR Bande MUSS in O & M -14 of C5 sub-division, BESCO.
 - d) Drawing new feeder from Vandaraguppe 66/11 KV MUSS to release the load of F17-tagachagere NJY feeder of Channapatna MUSS in O&M -1, Channapatna rural sub-division. Ramanagar division, BESCO

The Commission had decided to review the status of the works which were not meeting the prudence check norms in the next Tariff order. Hence, BESCO shall furnish the present status of the work which are considered as imprudent and conditionally prudent in Tariff Order 2020, attributable to BESCO and KPTCL.

- xi. BESCO shall furnish the list and number of works sanctioned, Completed, balance number of works to be taken up, details source of funding for capex incurred for Rs.422.26 Crores under Model sub division works for FY20 and up to November 2020.
- xii. BESCO shall submit the compliance and the details sought in the Tariff Order 2020 both the physical progress as well as the financial progress, in **respect of all the schemes taken up by BESCO in the format – 1, 2 & 3 annexed.**

B. BESCOM Capex proposal for FY22:

- a. As per the Tariff application, BESCOM has proposed the Capex of Rs.2500 Crores and Rs.3878 Crores as against the Commission approved capital expenditure of Rs.1661.93 Crores and Rs.1322.83 Crores in the Tariff Order 2019 (MYT Order), for FY21 and FY22 respectively. The BESCOM shall explain the rationale behind submitting the revised capital expenditure for Rs.2500 Crores and Rs.3878 Crores for FY21 and FY22 respectively. As the financial year 2020-21 is nearing completion, why the BESCOM has proposed the revised Capex at this juncture with the adverse financial condition faced on the account of COVID-19, shall be explained.
- b. BESCOM, in its filing in Table-4.27 and 4.28 has projected the capex towards conversion of OH lines into UG/AB cable for Rs.1135 Crores for FY21 and Rs.2000 Crores for FY22. BESCOM shall furnish actual the expenditure incurred upto 30.11.2020 on this project besides furnishing the progress of works achieved till date.
- c. BESCOM, in its filing has indicated Rs.368.91 Crores as the actual capital expenditure incurred in providing infrastructure to UNIP for FY20. Further BESCOM has projected the Capex of Rs.173.25 Crores and Rs.30 Crores for FY21 and FY22 respectively. BESCOM shall furnish the actual number of UNIP connections existing as on 01.04.2019, works completed and closing balance of UNIP installations to be provided with infrastructure during FY20 and up to November 2020. BESCOM shall also furnish sources of funding for executing these works, in FY20 to FY22.
- d. BESCOM shall furnish the UNIP installations provided with infrastructure under Tatkal Scheme, if any, separately for FY20,
- e. BESCOM shall furnish the target date of completion of the projects sanctioned, total number of BPL beneficiaries serviced under DDUGVY and IPDS Schemes, amount spent, amount of capital grants received from the Government of India, additional grants of 15% from GOI on achievement of prescribed milestones set by GOI from the date of inception of the project till date and the balance amount to be received from the Government of India and the action taken thereon with documentary evidence.
- f. BESCOM shall furnish the details of new works mentioned in its filing like APFC, software development and providing IP cameras for EV charging stations.
- g. BESCOM shall furnish the details of development and deployment of GPS based vehicle tracking system along with the cost there on.

- h. BESCO shall furnish the details of works proposed under Model Sub-division and system improvement works of Indiranagar division for Rs.62 Crores proposed in the FY22.
- i. BESCO in its filing has proposed to carry out Capex works under SDP/SCP/TSP provided with Govt. grants for FY22 without indicating the amount in the proposed capital cost of Rs.3878 Crores. BESCO shall furnish the reason for the same.
- j. BESCO, in its capex proposal, has not provided any amount towards the rectification of the hazardous locations for FY22. BESCO shall furnish the actual expenditure incurred during FY20 and up to November 2020 in FY21, besides furnishing the reason for not considering any amount under the proposed Capex for FY22.
- k. BESCO shall furnish the details of 11KV Evacuation of lines, strengthening of HT and LT network for Rs.200 Crores, Rs.250 Crores, Rs.250 Crores Capex proposal made in FY22 with the cost there on.

6. BESCO Power Purchase:

i. Annual Performance Review for FY20:

- a. As against the approved quantum of 33960.83 MU energy at generating bus, BESCO has purchased 33139.19 MU with sale of 726.43 MU through IEX and energy transactions under UI to an extent of 20.06 MU. The cost resulting from UI is being added to the total, the same needs to be deducted and hence needs correction accordingly.
- b. The per unit cost recovered from IEX sale is Rs 2.76. BESCO shall explain how the energy of 726.43 MU sold through IEX at Rs. 2.76 per unit will earn profit to BESCO taking into consideration the merit order dispatch.
- c. BESCO has to provide the plant-wise details of total energy utilized and unutilized in the format annexed at **Annexure-1** considering the merit order dispatch. Any deviation from merit order scheduling should be explained fully.
- d. The Actual purchase of energy from Renewable Energy sources has increased by 19%. This shows lack of proper forecasting the generation

from renewable energy. Reasons for this need to be explained by BESCOM.

- e. The actual PGCIL Charges has increased by around 97%, for FY20, BESCOM shall furnish month-wise details along with the explanation for such a raise in the charges. This has been increasing year after year which is resulting in huge burden on the end consumers. The present status of action initiated by BESCOM to address this issue of abnormal increase in the PGCIL POC charges, shall be informed to the Commission.
- f. The BESCOM has considered 20.58 MU with the cost of Rs. 8.66 Crores as inter-ESCOMs energy charges, as indicated in D1-Format. The basis for payment of this amount shall be furnished besides submitting the reconciliation statement for the energy balancing among the ESCOMs.
- g. The BESCOM has considered 1702.86 MU with the cost of Rs. 706.74 Crores towards Energy Balancing, as indicated in D1-Format. The basis for payment of this amount need to be furnished.
- h. The BESCOM shall furnish the basis thereof for variation in respect of energy utilized indicated in the D1 Format, wherever applicable against the Commission approved energy allowed in respect of each of the plant.
- i. The BESCOM shall furnish the basis thereof for variation in respect of tariff indicated (capacity charges, variable charges and total cost) in the D1 Format, wherever applicable against the Commission approved tariff in respect of each of the plant.
- j. The energy purchased from the following power plants has been clubbed BESCOM shall furnish the details of energy purchased for FY20, separately for ease of comparison:
 - Kaiga U#3 and U#4 with Kaiga U#1, U#2
 - Kudankulam U#2 with Kudankulam U#1.
 - DVC, Koderma U#1 & U#2 with Meja U#1 & 2
- k. The total amount shown in respect of NNTPS needs to be clearly written in terms of capacity charges and variable charges.
- l. The per unit variable cost calculated in respect of KPCL hydel stations needs correction along with the per unit cost calculated towards total

other hydro in the approved power purchase cost for FY 20. BESCOM shall furnish the details for the same.

- m. BESCOM in its filing of APR for FY 20 has indicated the capacity charges in respect of KPCL Hydel Power Plants. The same needs justification from BESCOM.

ii. Power Purchases-ARR Projections for FY22:

- a. BESCOM, in its ARR filing has indicated its requirement of power at - 29955.93MU and its cost -Rs. 17629.6 Crores at a per unit cost of Rs.5.89 for the FY22. The Commission, under MYT Tariff Order 2019, had approved the energy requirement and power purchase cost at 36894.27 MU at a cost of Rs.20412.40 Crores at a per unit cost of Rs.5.53 for FY22. The source-wise difference between the Commission's approved power purchase quantum and cost and the projection made by BESCOM for FY22 are as under:

Sl. No.	Source	KERC Approved for 2021-22			BESCOM PROJECTIONS		
		Energy in MU	Amount	Avg. cost	Energy	Amount	Avg. cost
			in Crs.	in Rs	in MU	in Crs.	in Rs
1	2	3	4	5	6	7	8
1	KPCL-Hydro	2599.52	267.73	1.03	4243.76	511.9	1.21
2	KPCL-Thermal	10533.85	6833.4	6.49	7766.58	5708.6	7.35
3	Central Projects	12570.63	5188.28	4.13	9114.56	4572.05	5.01
4	Major IPP(UPCL)	2468.95	1592.48	6.45	2173.08	1141.16	5.25
5	RE Projects	8660.65	3446.79	3.98	9372.86	3190.68	3.4
6	Other Hydro	60.67	37.31	8.2	94.18	31.45	3.34
7	Energy balancing	-	-	-	-2809.09	-1426.31	5.08
8	KPTCL transmission charges and SLDC	-	1958.82	-	-	2419.49	-
9	PGCIL charges and POSCO	-	1087.59	-	-	1480.58	-

BESCOM shall furnish the basis for projecting the source-wise energy for FY22 with the explanation for having projected the reduced quantum of energy, in contrary to the steadily increase in day by day consumption in the State based on the daily load curve statement submitted by SLDC.

- b. BESCOM, in its filing has indicated the energy balancing figure of 2809.09MU with a cost of Rs1426.31 Crores for FY22. The basis with

reason for considering the projection of energy and the cost shall be furnished.

- c. The actual source-wise energy received for October, 2020 and November, 2020 and the cost thereon shall be furnished in the same D-1 Format.
- d. BESCO has considered the energy of 207.37MU from Yelahanka gas plant with per unit cost of Rs 21.011. In this regard, BESCO shall confirm whether Power Purchase Agreement has been signed with KPCL, after obtaining the In-principle approval from the Commission.
- e. The basis and the computation sheet for reckoning the fixed cost and variable charges in respect of each of the thermal generating stations and other stations shall be furnished.
- f. BESCO shall furnish the basis of computations and the document in consideration of fixed cost and variable costs in respect of BTPS unit-3, YTPS and Yelahanka gas plants.
- g. BESCO shall furnish source-wise capacity and quantum of energy to be procured from RE projects, for which it has executed the PPAs.
- h. BESCO shall furnish the methodology for forecasting the RE energy from different sources for FY22.

7. BESCO's Distribution:

i. Distribution Loss for FY 20:

BESCO in its APR filing for FY 20 has indicated the actual distribution loss of 11.99% with the reduction in the energy purchase at IF point by 1261.26 MU and reduction in sales by 1023.73 MU for FY20. BESCO could have reduced the Distribution loss lesser than 11.99% by properly monitoring the losses of the Cities and Towns. Hence, BESCO shall furnish the actual data of Energy Audit for Towns and Cities covered in its area of supply, in the following format:

Name of the Town /City	FY20			FY21 (upto Nov'2020)		
	Energy Input in MU	Energy Sold in MU	Distribution loss in %	Energy Input in MU	Energy Sold in MU	Distribution loss in %
Total						

ii. Distribution Loss for FY 22:

- a. BESCO, in its ARR filing has proposed to retain the distribution losses of 11.75% for FY22 as approved by the Commission, in its Tariff Order dated 30.05.2019. It is observed that, while proposing the capital investment plan for the FY22, BESCO has allocated significant investment for the purpose of reconductoring of HT and LT lines, new lines for evacuation of power, replacing 11 KV overhead lines by UG Cables and other improvement works. Considering, the proposed Capex plan of Rs.3878 Crores for FY22, the losses projected for FY22 is not commensurate with the proposed investments. BESCO by keeping in view of the proposed Capex shall reassess and submit the revised distribution losses for FY22.
- b. Further, while projecting the capital expenditure, BESCO has to give utmost importance to identify high loss making feeders, high loss making subdivision, division and circles to prioritize investments to specifically reduce losses and improve reliability of distribution system. But no such details are indicated in the filing. BESCO should note that, the optimal distribution system loss should be less than 10% even to maintain the voltage regulations within the permissible limits of 9% for 11kV system and 6% for LT distribution system. BESCO should have planned towards bringing down the distribution system losses below 10%. BESCO shall furnish the above details.

8. RPO Compliance:

- i. BESCO has furnished the details of RPO compliance of solar and non-solar RPO for 2019-20 and has submitted that it has complied with both solar & Non-solar RPO. As per D-1 Format, the net energy after deducting the Hydel sources is 31295.34 MU [32392.69-995.93(KPCL)-101.42(Other Hydro)] whereas, BESCO for RPO calculation has considered 31037.71 MU. **This shall be clarified. Further, break up for energy procured from Shimsha project shall be furnished.**
- ii. As per Table 3.16, the solar purchased is 4783.98 MU [excluding banked energy], whereas as per Table 3.17 it is 4732.45 MU. Similarly, as per Table 3.16, the Non-solar purchased is 4057.10 MU [excluding banked energy &

including medium term co-gen purchase], whereas as per Table 3.17 it is 4092.18 MU. These figures shall be reconciled with accounts data. Also, for Non-solar RPO, the energy procured from Shimsha Hydro Station shall also be added.

- iii. For validating the RPO compliance and to work out APPC, BESCO shall furnish the data as per the format indicated below, duly reconciling the data with audited accounts of FY20:

a. Non-solar RPO:

No.	Particulars	Quantum in MU	Cost- Rs. Crs.
1	Total Power Purchase quantum from all sources excluding Hydro energy		
2	Non-solar Renewable energy purchased under PPA route at Generic tariff including Non-solar RE purchased from KPCL		
3	Non-solar Short-Term purchase from RE sources, excluding sec-11 purchase		
4	Non-solar Short-Term purchase from RE sources under sec-11		
5	Non-solar RE purchased at APPC		
6	Non-solar RE pertaining to green energy sold to consumers under green tariff		
7	Non-solar RE purchased from other ESCOMs		
8	Non-solar RE sold to other ESCOMs		
9	Non-solar RE purchased from any other source like banked energy purchased at 85% of Generic tariff		
10	Total Non-Solar RE Energy Purchased [No 2+ No.3+No.4+No.5 +No.7+No.9]		
11	Non-Solar RE accounted for the purpose of RPO [No.10- No.5-No.6-No.8]		
12	Non-solar RPO complied in % [No11/No1]*100		

b. Solar RPO:

No.	Particulars	Quantum in MU	Cost- Rs. Crs.
1	Total Power Purchase quantum from all sources excluding Hydro energy		
2	Solar energy purchased under PPA route at Generic tariff including solar energy purchased from KPCL		
3	Solar energy purchased under Short-Term, excluding sec-11 purchase		
4	Solar Short-Term purchase from RE under sec-11		
5	Solar energy purchased under APPC		

6	Solar energy pertaining to green energy sold to consumers under green tariff		
7	Solar energy purchased from other ESCOMs		
8	Solar energy sold to other ESCOMs		
9	Solar energy purchased from NTPC (or others) as bundled power		
10	Solar energy purchased from any other source like banked energy purchased at 85% of Generic tariff		
11	Total Solar Energy Purchased [No.2+ No.3+No.4+No.5+No.7+No.9+No.10]		
12	Solar energy accounted for the purpose of RPO [No.11- No.5-No.6-No.8]		
13	Solar RPO complied in % [No.12/No.1]*100		

BESCOM shall furnish the estimates for complying with solar and non-solar RPO for FY21 & FY22, including any cost implication for purchasing RECs, if any.

9. Observations on other items of ARR:

A. APR FY20

- a. **Employee Cost:** BESCOM in its tariff application has indicated the number of employees working strength of 15440 as against the sanctioned strength of 24576 employees for FY 20. It is observed from D-6 Format that, as against the 22893 sanctioned post of other employees below the officer's grade, 13975 employees are working. BESCOM shall furnish the cadre-wise details of employees covered under 'other employees' and explain how it is managing with the existing staff. BESCOM shall also furnish the number of persons working on outsourced basis from contract agencies and the remuneration incurred thereon, during FY20.
- b. **Incentive on Distribution Losses:** BESCOM, as per Table 3.9 in the APR filing for FY20, has claimed an amount of Rs.109.48 Crores as incentive for having achieved the distribution losses of 11.99% over the approved upper target loss of 12.50% instead of taking the lower targeted distribution losses of 12.00% for FY 20. BESCOM shall explain as to how it has claimed the higher amount of incentive for FY 20 in contravention of the MYT Regulation.
- c. BESCOM in its filing as per Table 3.21, has claimed an amount of Rs. 242.13 Crores towards Remuneration paid to the contact agencies.

BESCOM shall submit the details of number of persons engaged through contract agencies and the payment made thereon and nature of work for which they have been engaged during FY20.

- d. BESCOM in its filing of APR in Table 3.22, has claimed an amount of Rs.53.40 Crores towards conveyance and travelling expenses for FY20. The Commission, in its earlier Tariff Orders has directed BESCOM to control the expenses under A&G head of account. In spite of the direction, the expenditure under this head of account is increasing year on year. BESCOM shall explain the reason for incurring huge expenses under this head of account, besides furnishing the details about the expenditure incurred in respect of regular employees and service stations maintenance expenses separately along with number of vehicle hired.
- e. BESCOM, in its APR application, has claimed an amount of Rs.399.58 Crores towards un-controllable additional employees cost (Terminal Benefits) for FY20. BESCOM shall furnish the detailed computation sheet for having incurred this expenditure along with the Actuarial Valuation Report.
- f. BESCOM in its filing for APR for FY20, in Table 3.3 and 3.2, has indicated Rs.1762.30 Crores as long term borrowing for FY20. Compared to the actual capital expenditure of Rs. 2522.48 Crores incurred during FY20, even with the amount of capital grants/subsidy/consumer contributions received during the year, the amount of capital loan borrowed during the year is on the higher side and is a burden to the consumers. BESCOM shall submit the details of loan-wise capital loans in the Format enclosed. **(Annexure – 2)**.
- g. BESCOM, in its APR application for FY20, in Table 3.33, has indicated an amount of Rs.6357.63 Crores as short term / overdraft borrowings during FY20. As compared to the total requirement of working capital of Rs. 3850.87 Crores as per Table 3.34, the new borrowings made during FY20 is on the higher side. BESCOM shall explain the reason with purpose of borrowings such a huge amount of short term loan/OD drawn even with the revenue collection reaching Rs.20525.10 Crores (Table-1.1) for FY20. BESCOM shall also submit loan-wise details of short term/overdraft drawn during FY20 in the format enclosed. **(Annexure – 3)**

- h. BECOM, in its APR application for FY20. in Table-3.36, has claimed an amount of Rs.19.91 Crores as Bank charges under "other finance charges" for FY20. BECOM shall submit the details and the nature of expenditure for having incurred this amount during FY20.

B. Observations on ARR for FY22 – Borrowing, Interest rates etc.

- a. As against the proposed Capex outlay of Rs.3878 Crores (Page 86) and the estimated capital expenditure of Rs.3533.50 Crores (Table 4.40), BECOM has proposed to avail the new capital loans of Rs.2109 Crores (Table 4.45), which also includes loans to liquidate the power purchase dues for FY22. Out of this total amount of proposed borrowings, BECOM shall furnish the break-up details of amount earmarked for Capital loan to meet the capex and liquidation of power purchase dues for FY22.
- b. BECOM shall submit the details about the measures taken / action plan to reduce the interest burden on Capital loans / working capital loans and late payment surcharge payable to the power generators, as per the guidelines issued by the Govt. of India to reduce the financial burden of the transmission and distribution Companies, suffering due to slowdown of economic activities on account of COVID-19.
- c. BECOM, in its filing for ARR, in Table 4.5, has claimed the Bank rate of 5.70% for the payment of interest on consumer security Deposits for FY22. BECOM shall submit the basis for claiming the Bank Rate of 5.70 % in contravention to the provisions of KERC Regulation on payment of interest on consumer's security deposit. BECOM is required to reassess the interest as per the provisions of prevailing Regulations.
- d. BECOM, in its application for ARR for FY22, has submitted the non- telescopic tariff under LT-2 domestic category up to the consumption of 200 units and proposed reduction in the energy charges and massive increase in the fixed charges. By this proposal to increase in the fixed charges, BECOM has proposed to earn an additional revenue of Rs.805.84 Crores, resulting in increase in the fixed charges by 59.60% over the existing tariff, which is beyond the capacity of the majority of the consumers under domestic category. As

the revenue realised from the domestic consumer and some of the other category of consumer is almost meeting the average cost of supply, BESCOM shall have a re-look into the issue and submit its justification for proposing a massive increase in fixed charges duly considering the plight of the average consumers' paying capacity.

- e. BESCOM shall submit the actual details of number of consumers, sectioned load and sales for FY20 under domestic category {LT 2(a) and LT 2(b)} as made out in the following table.

Slab	No. of Consumer	Sanctioned load in Kw	Sales in MU	Demand in Rs. Crores
0-50				
50-40				
101-150				
150-200				
Above 200				

- f. BESCOM, in Format A-2 (Balance sheet), has indicated Rs. 9330.66 Crores as closing balance of receivable from consumers for sales of power as against the actual revenue realisation of Rs. 8525.20 Crores for FY20. Recovery of the bill amount to the extent of 100% is the key factor in ensuring Company's financial viability. This will also be a key factor in ensuring lower percentage of AT &C losses of the Company, besides reducing the interest burden on the power purchase and bank loans. BESCOM shall explain the basis for projecting the higher amount of closing balance of receivables for FY22. BESCOM shall also furnish the reasons for the accumulation of revenue receivables from the consumers during FY20 and efforts made and the action plan for the recovery of arrears.
- g. BESCOM shall submit the following category / sub-category-wise details under LT and HT in respect of Poultry Farms, Cold Storage Plants and Ice Manufacturing Plants based on the actual as on 31.03.2020 and as on 30.11.2020.

Category of consumers	No. of consumer	Sanctioned load in Kw/HP	Sales in MU

10. Cross subsidy surcharge:

BESOM has stated that as per Hon'ble APTEL, the Cross-Subsidy Surcharge is not only to compensate ESCOMs for loss of cross subsidy, but also to compensate the remaining consumers who have not taken OA. Further, BESCOM has referred to the Consultation paper of MoP dated 24.08.2017 and has stated that SERCs have to implement Para 8.3-2 and first proviso to Para 8.5.1 of tariff policy, simultaneously. Accordingly, BESCOM has submitted that, it has worked out the CSS as per the formula specified in tariff policy,2016.

For FY21, BESCOM has proposed the following CSS:

Voltage level	HT-1	HT-2a(i)	HT-2a(ii)	HT-2b(i)	HT-2b(ii)	HT-2C(i)	HT-2C(ii)	HT-3a(i)	HT-3a(ii)	HT-3b	HT-4	HT-5
66kV & above	-50.92	258.95	214.00	329.52	256.76	189.63	238.89	-402.04	-- 376.93	-162.84	183.08	411.78
HT-11kV or 33 kV	-113.28	258.95	214.00	329.52	256.76	163.31	238.89	-464.39	-439.29	-225.19	130.58	411.78

BESCOM shall furnish the working sheet of cost of supply at 66kV and at HT - level

11. Additional surcharge:

BESCOM has stated that it has worked out the additional surcharge of Rs.2.09/unit considering the ARR of FY22. However, it is also stated that the Additional surcharge is worked out as per the methodology adopted in KERC order dated 30.05.2019. It may be noted that in the above tariff order, the Commission had worked out additional surcharge based on APR data of FY18, whereas in the subsequent order issued on 04.11.2020, the Commission has considered the approved ARR of FY21. **In view of the above BESCOM shall clarify as to whether the computations are done as per order dated 04.11.2020 or as per order dated 30.05.2019. The Commission in its previous order has provided concession to RE sources in additional surcharge. BESCOM may furnish its comments in the matter.**

12. Observation on BESCOM Directives

Directive No	Directives Issued by the Commission	Observation made
1	Consumer interaction meeting at Subdivision level.	<p>BESCOM was directed to conduct consumer interaction meetings at Subdivision level chaired by the SEE once in a quarter to redress the consumer complaints. BESCOM has submitted the details of consumer interaction meetings conducted in all the subdivisions in 3rd and 4th quarter of the FY20 and 1st and 2nd quarter of FY21 in its filing. It is observed that, the number of consumers who have attended the meetings on 21.03.2020 for the 3rd quarter of FY20 in South Circle, West Circle, Rural Circle of Bangalore, Ramanagara and Kolar Circles, is zero. It appears there is lack of adequate publicity for the meeting. However, BESCOM shall furnish the reasons for the same.</p> <p>The BESCOM shall furnish the details of meetings held, for the FY20 and till September 2020, sub-division wise indicating the dates on which the meetings were conducted and the Officer chairing such meetings. As directed, the BESCOM is not furnishing the details of the CIMs conducted once in three months to the Commission.</p> <p>The BESCOM shall furnish compliance thereon.</p>
2	Directive on preparation of energy bills on monthly basis by considering 15 minute's time block period	BESCOM has furnished 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, for FY20 and up to September 2020, but BESCOM has to furnish the details of revenue gain for the above period on account of billing of such consumers on monthly basis by considering 15 minute's time block period.
3	Directive on Energy Conservation.	BESCOM is not furnishing the compliance on quarterly basis as directed. BESCOM shall submit the compliance as per the directions in the Tarff Order.
4	Directive on implementation of Standards of Performance (SoP)	The BESCOM was directed to display the SoP parameters in all its O&M Subdivisions and O&M Sections. Also directed the BESCOM to carry out effective supervision over the functioning of field offices particularly in rendering of services to the consumers, relating to restoration of supply of electricity and to submit the details of number of violations of SoP by officers, sub-division wise, month wise, amount of penalty levied on the officers and the amount paid to the consumers for any delay in service.

Directive No	Directives Issued by the Commission	Observation made
		<p>BESCOM was directed to conduct awareness campaign at the Hobli levels for educating the public about the Standards of Performance prescribed by the Commission. BESCOM was required to conduct necessary orientation programme for all the field officers and the staff up to linemen to educate them on the SoP and the consequences of non – adherence to the SoP. Further, the Commission directed BESCOM to publish the "HAND BOOK" in Kannada on the SoP and arrange to distribute to all the staff and stake holders and submit the quarterly progress.</p> <p>But the BESCOM is not submitting any compliance report periodically. BESCOM shall furnish the details of awareness campaigns conducted in at the Hobli levels for educating consumers and orientation programs for educating the officers and field staff up to the level of lineman conducted during FY20 as reported in its tariff filing. BESCOM shall submit the compliance regularly.</p>
5	Directive on use of safety gear by linemen	<p>BESCOM is not submitting the quarterly compliance report to the Commission and has not furnished the statistics on the number of regular and contract basis field staff working and the number of staff provided with the safety gears.</p> <p>BESCOM shall submit the information and a definite timeline for providing complete set of safety gears to all the lineman, in case it is yet to provide them to all its staff.</p> <p>Details of the action taken on erring staff also be furnished.</p>
6	Directive on providing Timer Switches to Street lights by ESCOMs	<p>BESCOM has not furnished the detailed statistics of the number of Street Light installations existing as at the beginning of the year, serviced during the year, and the installation provided with timer switches etc.,</p> <p>BESCOM shall also furnish the details on the follow up action on the circulars issued on servicing the timer switches while servicing street light points.</p> <p>BESCOM has not submitted the compliance as to whether LED / energy efficient lamps are being used and timer switches are provided while servicing of new streetlight installations.</p> <p>BESCOM shall submit the compliance thereon.</p>
7	Directive on Load shedding	<p>BESCOM 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 regularly.</p>

Directive No	Directives Issued by the Commission	Observation made
		<p>BESCOM has not action to update the entire consumer data into the application used for public information system on power system interruption etc.,</p> <p>The Commission has observed a high transformer failure rate i.e., out of the existing total 3,97,099 number of transformers as on October 2020, number of transformers reported failed during FY20 is 30,751 amounting to 7.7% and till October 2020 during FY21 the transformers failed are 17,272.</p> <p>BESCOM shall submit compliance on the above points along with the action plan for updating the consumer data, to reduce the transformer failure etc.,</p>
8	Directive on establishing a 24 X 7 fully equipped centralized consumer service centers	<p>BESCOM was directed to reduce the consumer downtime to address complaints. BESCOM is directed to report average time taken to attend to a complaint as at present and the efforts made to further, reduce the downtime in future. Comparison of the downtime analysis for FY19 and FY20 shall be furnished.</p> <p>Consolidated statistics on the complaints handling for the FY20 shall also be furnished.</p> <p>BESCOM shall submit compliance on the same.</p>
9	Directives on Energy Audit	<p><u>Energy Audit of cities / towns</u></p> <p>BESCOM shall furnish details of feeder-wise energy audit along with the details of measures initiated to reduce loss levels wherever the same are above 15% up to September 2020.</p> <p>The BESCOM has also been reporting, from the last 4 years, the same reason that, the communication issues with the AMI enabled DTC metering, consumer indexing to take up effective energy auditing. BESCOM is now reporting that it is going to invite tenders for setting right the AMI enabled DTC meters on OPEX mode by inviting tenders. BESCOM shall furnish the details on the number of meters provided to DTCs by the earlier agencies, % of communication achieved, % age energy audit conducted with the AMI fetched readings etc.,</p> <p>BESCOM shall indicate the definite timeline by which it will complete the consumer indexing for taking up energy auditing effectively.</p> <p>BESCOM shall furnish the comparative statement of losses recorded in Towns & Cities for the FY20 as against the FY19.</p> <p><u>DTCs Energy Audit:</u></p> <p>BESCOM was directed to furnish the details of energy audit conducted in respect of DTCs for which meters have been fixed</p>

Directive No	Directives Issued by the Commission	Observation made
		<p>and the remedial measures initiated to reduce losses in those DTCs which are showing abnormally high losses, every month to the Commission regularly.</p> <p>BESCOM has not submitted the details of energy audit conducted in respect of DTCs for which meters have been said to be fixed.</p> <p>BESCOM shall submit the details of energy audit conducted for the metered DTCs and the timeline for conducting the EA of all the DTCs.</p>
13	Directive on Implementation of Financial Management Framework	BESCOM has to submit the compliance in respect of implementation of Financial Management Framework, on quarterly basis regularly to the Commission.
14	Prevention of Electrical Accidents	<p>BESCOM has to furnish the details of hazardous locations identified, the balance number of hazardous locations to be rectified for FY20 and till September 2020 along with an action plan to rectify them.</p> <p>BESCOM has to furnish the summary of the analysis made on the reports submitted by Electrical Inspectorate for FY20 up to September 2020, action taken to prevent such accidents in future.</p>

Format - 1: Statement of details to the Capex for FY20

Sl.No.	Name of the Scheme	Total No. of works	Total Cost of Scheme (Rs in Cores)	Funding mechanism for the scheme	Objectives of the Scheme	Scheduled date for completion of the scheme	No. of works completed till FY20*	Objectives achieved with figures	Total expenditure till FY20*	Balance no. of works to be completed **	Expected expenditure for completion of balance works**	Expected date of completion of balance works
1	RGGVY											
2	Niranthara Jyothi Yojane											
3	DDUGJY											
4	HVDS											
5	IPDS											
6	R-APDRP											
7	DAS											
8	Smart Grid											
9	Smart City											
10	Electric Vehicle											
11	DSM											
12	Model Sub Division											
13	Model Village											
14	Auto reclosure & Sectionalizer											
15	Conversion of OH line into UG/AB cable											

***Format – 2 : Year wise break up of no. of works completed and corresponding expenditure incurred from the first year of inception of the scheme to till FY20**

Sl.No.	Name of the Scheme	1 st year		2 nd year			FY20	
		No. of works completed	Expenditure incurred (Rs in Cr)	No. of works completed	Expenditure incurred (Rs in Cr)	No. of works completed	Expenditure incurred (Rs in Cr)	Total no. of works completed	Total expenditure till FY20
1	RGGVY								
2	Niranthara Jyothi Yojane								
3	DDUGJY								
4	HVDS								
5	IPDS								
6	R-APDRP								
7	DAS								
8	Smart Grid								
9	Smart City								
10	Electric Vehicle								
11	DSM								
12	Model Sub Division								
13	Model Village								
14	Auto reclosure & Sectionalizer								
15	Conversion of OH line into UG/AB cable								

****Format -3: Year wise break up of no. of balance works that will complete and corresponding expenditure for completion of balance works of the scheme from FY21 onwards**

Sl.No.	Name of the Scheme	FY21		FY22		FY23			Total no. of balance works to be completed	Total of the expected expenditure (Rs in Cr)
		Balance no. of works to be completed	Expenditure (Rs in Cr)	Balance no. of works to be completed	Expenditure (Rs in Cr)	Balance no. of works to be completed	Expenditure (Rs in Cr)	Balance no. of works to be completed	Expenditure (Rs in Cr)		
1	RGGVY										
2	Niranthara Jyothi Yojane										
3	DDUGJY										
4	HVDS										
5	IPDS										
6	R-APDRP										
7	DAS										
8	Smart Grid										
9	Smart City										
10	Electric Vehicle										
11	DSM										
12	Model Sub Division										
13	Model Village										
14	Auto reclosure & Sectionalizer										
15	Conversion of OH line into UG/AB cable										

*****Format – 4 : Break up of actual capital expenditure for FY20**

Sl. No.	Heads of works	Provisional expenditure utilized in Crs submitted as per tariff filing 2020	Total Number of works	Expenditure pertains to spill over works in Rs. Crores	Number of Spill over works	Expenditure pertains to Fresh/New works in Rs. Crores	Number of Fresh/New works
1	Ganga kalyana Works	85.63					
2	Service connection works	94.56					
3	Water Works						
4	Planned works Total	180.19					
5	11 KV Evacuation line	113.44					
6	Providing Additional DTC's / Enhancement of DTCs	44.98					
7	Reconductoring of HT lines in No.s/Circuit kms	78.22					
8	Reconductoring of LT lines in No.s/circuit kms	98.14					
9	Local planning, Safety works, Emergency / Calamity Works	79.24					
10	SDP Progress	100% funded by GOK					
11	Replacement of Faulty transformers	161.19					
12	Non-Planned works Total	575.22					
13	Meters	18.06					
14	Providing Infrastructure to Unauthorised IP sets	368.91					
15	NJY	158.67					
16	HVDS	139.54					
17	RGGVY 12th plan	-2.41					
18	RAPDRP B	8.41					

19	DDUGJY	136.49					
20	IPDS	179.3					
21	Errection of distribution transformer centres using 11 mtrs Spun poles	41.29					
22	RAPDRP A	1.98					
23	DAS	0.99					
24	SG	-0.26					
25	DSM	1.87					
26	Civil Engineering Works	78.59					
27	IT initiative	1.93					
28	TIC	2.32					
29	Auto reclosure	19.33					
30	Model Sub division	422.26					
31	Smart City	84.07					
32	Model village	26.56					
33	System improvement works of Indiranagar division	29.51					
34	Conversion of OH line into UG/AB cable	27.62					
35	T&P	16.76					
36	Corporate office reserve fund						
37	Others	5.26					
38	Project total	1767.06					
39	Grand Total	2522.48					

Annexure-1

Plant wise details considering the merit order dispatch:

SL. NO.	Plant name and capacity (in MW)	Capacity Charges (Rs/Unit)	Variable Charges (Rs/Unit)	Total Per Unit Cost (Rs/Unit)	Total Energy Available (in MU)	Total energy utilized				Total Energy unutilized	
						Energy sold to consumers (in MU)	Energy sold though power exchanges and tender (in MU)	Energy utilized under UI mechanism (in MU)	Total energy utilized (in MU)	Energy unutilized due to backing down and reserve shutdown (in MU)	Capacity Charges paid for the unutilized energy (Rs in Crores)
1	2	3	4	5	6	7	8	9	10=7+8+9	11=6-10	12

(Annexure – 2)

Capital Loan Details

(Amount in Rs. Crores)

Bank/Financial Institution name	Opening Balance as on 01.04.2019	New Loan amount Borrowed	Tenure amount	Rate of Interest	Repayment of Loan	Interest amount	Closing Balance as on 31.03.2020	Scheme /Works/ purpose of availing loans

(Annexure – 3)

Short Term/OD Details

(Amount in Rs. Crores)

Bank/ Financial Institution Name	Opening Balance as on 01.04.2019	New Loan Borrowed	Tenure	Rate of Interest	Repayment of Loan	Interest amount	Closing Balance as on 31.03.2020	Purpose of loan taken