

Order

on

**Approval of Business Plan and
Multi Year Tariff Petition**

For

**State Load Despatch Centre of
Uttarakhand**

For

**Third Control Period
(FY 2019-20 to FY 2021-22)**

February 27, 2019

Uttarakhand Electricity Regulatory Commission

Vidyut Niyamak Bhawan, Near I.S.B.T., P.O. Majra

Dehradun - 248171

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Before

UTTARAKHAND ELECTRICITY REGULATORY COMMISSION

Petition No.: 53 of 2018

And

Petition No. 55 of 2018

In the Matter of:

Petition filed by State Load Despatch Centre of Uttarakhand for approval of Business Plan for third Control Period from FY 2019-20 to FY 2021-22.

AND

In the Matter of:

Petition filed by State Load Despatch Centre of Uttarakhand for determination of Multi Year Tariff for third Control Period from FY 2019-20 to FY 2021-22.

AND

In the Matter of:

State Load Despatch Centre (SLDC)
132 kV Substation, H/Q Building, Majra,
Dehradun, Uttarakhand

.....Petitioner

Coram

Shri Subhash Kumar Chairman

Date of Order: February 27, 2019

Section 32(3) of the Electricity Act, 2003 (hereinafter referred to as “the Act”) allows the State Load Despatch Centre to levy and collect such fee and charges from generating companies and licensees involved in intra-State transmission as may be specified by the Appropriate Commission. To this end, it is required to file an application for determination of these charges in such manner and along with such fee as may be specified by the Appropriate Commission through Regulations.

In accordance with the relevant provisions of the Act, the Commission had notified Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2011 (hereinafter referred to as “UERC Tariff Regulations, 2011”) for the first Control Period from FY 2013-14 to FY 2015-16 specifying therein terms, conditions and norms of operation for licensees, generating companies and SLDC. The Commission had issued the Order dated April 10, 2014 on Aggregate Revenue Requirement for SLDC for FY 2013-14 to FY 2015-16. In accordance with the provisions of the UERC Tariff Regulations, 2011, the Commission had issued the Order dated April 11, 2015 on Aggregate Revenue Requirement for SLDC for FY 2015-16.

Further, in accordance with the relevant provisions of the Act, the Commission had notified Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Multi Year Tariff) Regulations, 2015 (hereinafter referred to as “UERC Tariff Regulations, 2015”) for the second Control Period from FY 2016-17 to FY 2018-19 specifying therein terms, conditions and norms of operation for licensees, generating companies and SLDC. The Commission had issued the Order dated April 5, 2016 on Aggregate Revenue Requirement for SLDC for FY 2016-17 to FY 2018-19. In accordance with the provisions of the UERC Tariff Regulations, 2015, the Commission had carried out the Annual Performance Review for FY 2016-17 and FY 2017-18 vide its Orders dated March 29, 2017 and March 21, 2018.

Further, in accordance with the relevant provisions of the Act, the Commission has notified Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Multi Year Tariff) Regulations, 2018 (hereinafter referred to as “UERC Tariff Regulations, 2018”) for the third Control Period from FY 2019-20 to FY 2021-22 specifying therein terms, conditions and norms of operation for licensees, generating companies and SLDC. In compliance with the provisions of the Act and Regulation 8(1) and Regulation 10(1) of UERC Tariff Regulations, 2018, State Load Despatch Centre of Uttarakhand (hereinafter referred to as “SLDC” or “Petitioner”) filed separate Petitions for approval of its Business Plan for the third Control Period from FY 2019-20 to FY 2021-22 (Petition No. 53 of 2018 hereinafter referred to as the “Business Plan Petition”) and Multi Year Tariff Petition (Petition No. 55 of 2018 hereinafter referred to as the “MYT Petition”) on November 30, 2018. SLDC, in its Business Plan Petition, has submitted the Capital Investment Plan, Financing Plan, and Human Resources Plan for the third Control Period. Further, through the MYT Petition, SLDC has submitted the detailed calculations of its projected SLDC Charges for the third Control Period from FY 2019-20 to FY 2021-22 as per the UERC Tariff Regulations, 2018.

The Business Plan Petition filed by SLDC had certain infirmities/deficiencies which were informed to SLDC vide Commission's letter no. UERC/6/TF/501/Misc. App. No. 74 of 2018/1229 dated December 6, 2018 and SLDC was directed to rectify the said infirmities in the Petition and submit certain additional information necessary for admission of the Petition. SLDC vide its letter no. 2928/Dir.(Projects)/PTCUL/UERC dated December 12, 2018 removed the critical deficiencies. Based on the submissions made by SLDC, the Commission vide its Order dated December 17, 2018 provisionally admitted the Petition for further processing subject to the condition that SLDC shall furnish any further information/ clarifications as deemed necessary by the Commission during the processing of the Petition and provide such information and clarifications to the satisfaction of the Commission within the time frame, as may be stipulated by the Commission, failing which the Commission may proceed to dispose of the matter as it deems fit based on the information available with it.

Further, the Multi Year Tariff (MYT) Petition filed by SLDC also had certain infirmities/deficiencies which were informed to SLDC vide Commission's letter no. UERC/6/TF/500/Misc. App. No. 76 of 2018/1230 dated December 6, 2018 and SLDC was directed to rectify the said infirmities in the Petition and submit certain additional information necessary for admission of the Petition. SLDC vide its letter no. 2927/Dir.(Projects)/PTCUL/UERC dated December 12, 2018 removed the critical deficiencies. Based on the submissions made by SLDC, the Commission vide its Order dated December 17, 2018 provisionally admitted the Petition for further processing subject to the condition that SLDC shall furnish any further information/ clarifications as deemed necessary by the Commission during the processing of the Petition and provide such information and clarifications to the satisfaction of the Commission within the time frame, as may be stipulated by the Commission, failing which the Commission may proceed to dispose of the matter as it deems fit based on the information available with it.

This Order, accordingly, relates to the Business Plan Petition and the MYT Petition filed by the SLDC for approval of Business Plan and determination of SLDC Charges for the third Control Period from FY 2019-20 to FY 2021-22 and Annual Performance Review for FY 2018-19, and is based on the original as well as all the subsequent submissions made by SLDC during the course of the proceedings.

Tariff determination being the most vital function of the Commission, it has been the practice of the Commission to elaborate in detail the procedure and to explain the underlying

principles in determination of tariffs. Accordingly, in the present Order also, in line with past practices, the Commission has tried to elaborate the procedure and principles followed by it in determining the ARR of SLDC. The SLDC Charges are recoverable from the beneficiaries. It has been the endeavour of the Commission in past also, to issue Tariff Orders for SLDC concurrently with the issue of Order on retail tariffs for Uttarakhand Power Corporation Limited (UPCL), so that UPCL is able to honour the payment liability towards SLDC charges. For the sake of convenience and clarity, this Order has further been divided into following Chapters:

Chapter 1 - Background and Procedural History.

Chapter 2 - Petitioner's Submissions, Commission's Analysis, Scrutiny & Conclusion on Business Plan for the third Control Period.

Chapter 3 - Petitioner's Submission, Commission's Analysis, Scrutiny and Conclusion on APR for FY 2018-19 and MYT for the third Control Period.

Chapter 4 - Commission's Directives.

Chapter 5 - Annexures.

1 Background and Procedural History

In accordance with the provisions of the Uttar Pradesh Reorganization Act 2000 (Act 29 of 2000), enacted by the Parliament of India on August 25, 2000, the State of Uttaranchal came into existence on November 9, 2000. Section 63(4) of the above Reorganization Act allowed the Government of Uttaranchal (hereinafter referred to as “GoU” or “State Government”) to constitute a State Power Corporation at any time after the creation of the State. GoU, accordingly, established the Uttaranchal Power Corporation Limited (UPCL) under the Companies Act, 1956, on February 12, 2001 and entrusted it with the business of transmission and distribution in the State. Subsequently, from April 1, 2001, all works pertaining to the transmission, distribution and retail supply of electricity in the area of Uttaranchal were transferred from Uttar Pradesh Power Corporation Limited (UPPCL) to UPCL, in accordance with the Memorandum of Understanding dated March 13, 2001, signed between the Governments of Uttaranchal and Uttar Pradesh.

Meanwhile, the Electricity Act, 2003 was enacted by the Parliament of India on June 10, 2003, which mandated separate licenses for transmission and distribution activities. In exercise of powers conferred under sub-section 4 of Section 131 of the Act, the GoU, therefore, through transfer scheme dated May 31, 2004, first vested all the interests, rights and liabilities related to Power Transmission and Load Despatch of “Uttaranchal Power Corporation Limited” into itself and, thereafter, re-vested them into a new company, i.e. “Power Transmission Corporation of Uttaranchal Limited”, now renamed as “Power Transmission Corporation of Uttarakhand Limited” after change of name of the State. The State Government, further vide another notification dated May 31, 2004 declared Power Transmission Corporation of Uttarakhand as the State Transmission Utility (STU) responsible for undertaking, amongst others, the following main functions:

- a) To undertake transmission of electricity through intra-State transmission system.
- b) To discharge all functions of planning and co-ordination relating to intra-State transmission system.
- c) To ensure development of an efficient, co-ordinated and economical system of intra-State transmission lines.
- d) To provide open access.

A new company in the State was, thus, created to look after the functions of intra-State Transmission and Load Despatch, on May 31, 2004. In view of re-structuring of functions of UPCL and creation of a separate company for looking after the transmission related works, the Commission amended the earlier 'Transmission and Bulk Supply License' granted to 'Uttarakhand Power Corporation Limited' and transmission license was given to PTCUL for carrying out transmission related works in the State vide Commission's Order dated June 9, 2004.

The State Load Despatch Centre of Uttarakhand has been made operational w.e.f. November 27, 2012. As per Section 32 of the Act, the State Load Despatch Centre is the apex body to ensure integrated operation of the power system in the State. The functions of State Load Despatch Centre as stipulated in the Act are as follows:

- a) be responsible for optimum scheduling and despatch of electricity within the State, in accordance with the contracts entered into within the Licensees or the Generating Companies operating in the State;
- b) monitor grid operations;
- c) keep accounts of the quantity of electricity transmitted through the State grid;
- d) exercise supervision and control over the intra-State transmission system; and
- e) be responsible for carrying out real time operations for grid control and despatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.

In exercise of powers conferred to it under Section 61 of the Act, and all other powers enabling it in this behalf, the Commission notified the UERC Tariff Regulations, 2015 on September 10, 2015. These Regulations superseded the UERC Tariff Regulations, 2011.

The Commission vide its Order dated April 5, 2016 approved the Business Plan and Multi Year Tariff for SLDC for the second Control Period from FY 2016-17 to FY 2018-19. Further, the Commission had carried out the Annual Performance Review for FY 2016-17 and FY 2017-18 vide its Orders dated March 29, 2017 and March 21, 2018 respectively.

As mentioned earlier also, in accordance with the provisions of the Act and Regulation 8(1) and Regulation 10(1) of the UERC Tariff Regulations, 2018, SLDC is required to submit Business Plan Petition and MYT Petition for determination of Aggregate Revenue Requirement for the

ensuing years latest by November 30, 2018. SLDC in compliance to the Regulations submitted the Business Plan Petition and MYT Petition for determination of ARR/SLDC Charges for the third Control Period from FY 2019-20 to FY 2021-22 on November 30, 2018.

The Business Plan Petition and MYT Petition was provisionally admitted by the Commission vide two separate Orders dated December 17, 2018. The Commission, through its above Admittance Orders dated December 17, 2018, to provide transparency to the process of tariff determination and give all stakeholders an opportunity to submit their objections/suggestions/comments on the proposals of SLDC, also directed SLDC to publish the salient features of its Petitions in the leading newspapers. The salient points of the proposals were published by the Petitioner in the following newspapers:

Table 1.1: Publication of Notice

S. No.	Newspaper Name	Date of Publication
1	The Times of India	December 20, 2018
2	Hindustan Times	December 20, 2018
3	Dainik Jagran	December 20, 2018
4	Amar Ujala	December 20, 2018

Through above notice, the stakeholders were requested to submit their objections/suggestions /comments latest by January 31, 2019 (copy of the notice is enclosed as **Annexure 1 and 2**). The Commission received no objections/suggestions/comments in writing on the Petitions filed by SLDC.

Further, for direct interaction with all the stakeholders and public at large, the Commission also held public hearings on the proposals filed by the Petitioner at the following places in the State of Uttarakhand.

Table 1.2: Schedule of Hearing

S. No.	Place	Date
1	Srinagar	January 29, 2019
2	Dehradun	January 31, 2019
3	Almora	February 4, 2019
4	Rudrapur	February 5, 2019

The list of participants who attended the Public Hearing is enclosed at **Annexure-3**.

The Commission also sent the copies of salient features of tariff proposals to Members of the State Advisory Committee and the State Government. The salient features of the Business Plan Petition and MYT Petition submitted by SLDC were also made available on the website of the

Commission, i.e. www.uerc.gov.in. The Commission also held a meeting with the Members of the Advisory Committee on February 11, 2019, wherein, detailed deliberations were held with the Members of the Advisory Committee on the various issues linked with the Petitions filed by SLDC.

Meanwhile, based on the scrutiny of the Petitions filed by SLDC, the Commission vide its letter no. UERC/6/TF/500/Petition No. 53 of 2018/1354 dated December 31, 2018 pointed out certain data gaps in the Petitions and sought following additional information/ clarifications from the Petitioner:

Business Plan

- Physical and financial progress of intra-State ABT Metering Scheme approved by the Commission vide its Order dated May 6, 2016.

So as to have a better clarity on the data filed by the Petitioner and to remove inconsistency in the data, a Technical Validation Session (TVS) was also held with the Petitioner's Officers on January 8, 2019, for further deliberations on certain issues related to the Petitions filed by SLDC.

The Petitioner submitted the replies to the data gaps vide its letter no. 21/Dir.(Projects)/PTCUL/MYT dated January 4, 2019. The submissions made by SLDC in the Petition as well as additional submissions have been discussed by the Commission at appropriate places in the Tariff Order along with the Commission's views on the same.

2 Petitioner's Submissions, Commission's Analysis, Scrutiny & Conclusion on Business Plan for the third Control Period

2.1 Statutory Requirement

In light of the provisions of the Act, the Commission had notified the Uttarakhand Electricity Regulatory Commission (Terms and Conditions for Determination of Multi Year Tariff) Regulations, 2018 on September 14, 2018 applicable for determination of Tariff for the third Control Period from FY 2019-20 to FY 2021-22.

2.2 Multi Year Tariff Framework

As regards the Multi Year Tariff Framework, UERC Tariff Regulations, 2018 specifies as follows:

"4. Multi-year Framework

The Multiyear tariff framework shall be based on the following: -

- a) Business plan submitted by the applicant for the entire control period for the approval of the Commission prior to the beginning of the control period;*
- b) Applicant's forecast of expected ARR for each year of the control period, based on reasonable assumptions and financial & operational principles/parameters laid down under these Regulations submitted alongwith the MYT petition for determination of Aggregate Revenue Requirement and Tariffs for first year of the control period;*
- c) Review of control period ending on 31.03.2019 shall also be taken up alongwith the ARR/Tariff petition for the first year of ensuing control period;*
- d) Trajectory for specific parameters as may be stipulated by the Commission based on submissions made by the Licensee, actual performance data of the Applicants and performance achieved by similarly placed utilities;*
- e) Annual review of performance shall be conducted vis-à-vis the approved forecast and categorization of variations in performance into controllable factors and uncontrollable factors;*
- f) Sharing of excess profit or loss due to controllable and uncontrollable factors as per provisions of these Regulations.*

...

7. Determination of Baseline

The baseline values (operating and cost parameters) for the base year of the control period shall be determined by the Commission and shall be based on the approved values by the Commission, the latest audited accounts, estimates for the relevant year, prudence check and other factors considered by the Commission.

The Commission may re-determine the baseline values for the base year based on the actual audited accounts of the base year."

2.3 Business Plan for the third Control Period

Regarding Business Plan, Regulation 8 of the UERC Tariff Regulations, 2018 specifies as follows:

"8. Business Plan

(1) An Applicant shall submit, under affidavit and as per the UERC Conduct of Business Regulations as amended from time to time, a Business Plan by November 30th, 2018 for the Control Period of three (3) financial years from April 1, 2019 to March 31, 2022;

...

d) The Business Plan for the State Load Despatch Centre shall be for the entire control period and shall, interalia, contain-

(i) Capital Investment Plan including phasing of expenditure and funding pattern;

(ii) Estimated budget for the control period;

(2) The Applicant shall also submit the details in respect of its manpower planning for the Control period as part of Business Plan.

(3) The Commission shall scrutinize and approve the business plan after following the due consultation process."

In accordance with Regulation 8 of the UERC Tariff Regulations, 2018, the Petitioner submitted the Business Plan for the third Control Period from FY 2019-20 to FY 2021-22. The Petitioner in its Business Plan Petition and subsequent submissions has submitted the Capital Expenditure Plan, Capitalisation Plan, Financing Plan and Human Resources Plan for the third

Control Period from FY 2019-20 to FY 2021-22. The Petitioner's submissions and the Commission's analysis on approval of Business Plan for SLDC for the third Control Period from FY 2019-20 to FY 2021-22 are detailed below.

2.4 Capital Expenditure Plan and Capitalisation Plan

2.4.1 Petitioner's Submissions

SLDC endeavors to function as an independent organization in the future and efficiently carry out the processes of data acquisition and effecting energy accounting for the State in coordination with PTCUL.

Integrated operations of the power system of the State as vested upon the SLDC by the Electricity Act, 2003 as well as the State Grid Code, 2016 are not possible in the absence of RTUs at all generating stations and sub-stations. Further, communication equipment which can transmit time synchronized information to SLDC is required. The SLDC proposes to undertake projects aimed at building an Optical Power Ground Wire (OPGW) network for enabling higher quality communication over longer distances and installing RTUs at generating stations and sub-stations.

Optimal Scheduling and Dispatch, as required by section 32(2)(a) of the Electricity Act, 2003 is possible only when the Declared Capacity (DC) of all generation plants, and demand at various interface points between PTCUL and UPCL for all 15-minute blocks in a day is available with the SLDC.

SLDC is also required to maintain energy accounts of electricity transmitted through the State grid. This requires energy and transmission flow accounting procedures to be in place besides the infrastructure requirement. Secure and reliable operation is a critical requirement. SLDC is bound by section 33 of the Electricity Act, 2003 to give directions to various grid connected entities and also penalize them in case of violation. This requires infrastructure and procedures for the same to be in place.

To be able to reduce the burden of Unscheduled Interchange from the Inter- State grid, it is imperative that proper procedures of energy accounting be developed. This will enable: (1) Accounting of energy injected into the State grid by each power plant, its deviation from the schedule and hence contribution of each generator towards Unscheduled Interchange from the grid, (2) Accounting of energy withdrawal from the grid by the distribution licensee, deviation from the

schedule at each location in the State grid, contribution of each large consumer and the distribution company individually in causing Unscheduled Interchange from the Inter-State Transmission System and, (3) Computation of losses at all voltage levels and feeder-wise.

Transmission accounting is necessitated because: (1) Regional Transmission deviation Accounts prepared by RPCs penalize the beneficiary States for using the Inter-State transmission systems beyond the schedule and these penalties need to be charged from the actual users which cause such deviation, and (2) Transmission scheduling needs to be done at the level of the State also to have a signal for the need for capacity augmentation. The above procedures are important from the point of view of not only reducing the costs of operation of the power system but also aligning the developments in the State power system with those in the wholesale power market, which is regulated by CERC.

Development of software for preparation of Deviation Settlement Accounts and Reactive Energy Accounts for successful implementation of intra-State ABT and DSM (as per the Uttarakhand Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2017) is proposed to be completed in the upcoming Control Period using the SLDC's LDCD fund. A tender for implementation of intra-State Energy Accounting in the State which includes installation of ABT compatible SEM meters and establishment of central data centre for energy accounting has been floated.

For effective utilization of the SLDC investments, all the Power Plants (including those owned by UJVN Ltd.) should abide by the following:

- Install Remote Terminal Units (RTUs) which are capable of communication with LD Centres in IEC-104 Protocol.
- Install suitable Communication media for data transmission. The typical bandwidth requirement for real-time data communication is 64 kbps and depends upon data volume.
- IPP/ CPP/State-owned Power plants may be required by the Commission to submit complete proposal along with the schematic diagram for RTU installation and data communication with LD Centres.

- Integration of IPP/ CPP station data into the SCADA systems at SLDC and ALDC on IEC 104 protocol.
- Completion of all above should be under the scope and responsibility of IPP/ CPP /State-owned Power Station.
- SCADA system provided at nearest sub-station of PTCUL shall serve the purpose of monitoring/ control of power plant data/ operations at local level and also of visibility of real-time data at SLDC/ALDC.

SLDC aims to install RTUs at the UJVN Ltd.'s generating stations. These RTUs, post installation, will improve the existing communication system and enable access to real time data which will in turn, improve the maintenance of energy balance in the grid.

The other initiatives proposed to be taken up by SLDC are as follows:

- SLDC has initiated the development of a module for implementing a web based ABT scheduling system.
- Development of application software for automation of functions pertaining to data archiving, retrieval and analytics in accordance with recommendation 8.16(h) of FOR's 2016 Report on Scheduling, Accounting, Metering and Settlement of Transactions in Electricity (SAMAST).
- SLDC plans to commence day ahead forecasting of major solar, SHPs and other renewable plants from FY 2019-20 onwards.
- SLDC will be using its LDCD fund to establish training and system studies facilities towards capacity and skill building of employees so as to enable them to carry out the specialized functions of SLDC as per the State Grid Code regulations, 2016.

PTCUL procured SCADA/EMS system, RTUs, PLCC/PABX and Auxiliary Power Supply System as part of SLDC Project. SLDC was established to improve the Power System Operations resulting in effective monitoring and control of power system in Uttarakhand. Under the project there are two phases:

- Phase-I included the establishment of one SLDC at Dehradun and two no. of Control Centers at Rishikesh and Kashipur and was completed before the Control Period FY 2016-17 to FY 2018-19.
- Phase-II covered the supply and laying of OPGW network over the existing line of PTCUL and installation of RTU and associated accessories at 132 kV and above sub-stations.

The work of laying down OPGW on around 600 km of transmission lines is expected to be completed in the current Control Period. The RTU installation works were not started with the OPGW works in the current Control Period and have been included in the scope of the “Reliable Communication & Data Acquisition System for 132 kV & above sub-stations” project for the ensuing Control Period.

The details of works proposed for the MYT Control Period are as follows:

Reliable Communication & Data Acquisition System for 132 kV & above sub-stations

Rapidly evolving technology and the constantly expanding transmission network has rendered the old PLCC based communication system obsolete. OPGW based communication will be able to support the upcoming implementation of the Availability Based Tariff System and will facilitate the automation of sub stations by enabling remote controlling. In view of the same, laying down of OPGW network over transmission lines was initiated under Phase II of the SLDC project. The Phase II is expected to be partially completed in the current Control Period. It will be continued in the upcoming Control Period and will cover two different work plans (1) laying of OPGW cable over existing transmission lines and (2) installation of RTUs at various sub-stations and Hydro generating stations. The OPGW project involves 994 km of optical fibers on the PTCUL Transmission network. Investment approval was accorded to the project by the Commission vide its Order dated March 8, 2018. The project is likely to be completed by June 2021. The Table below shows the existing transmission lines over which the OPGW is proposed to be installed and the corresponding length of network over each line:

Table 2.1: Details of OPGW works

S. No.	Name of the line	Length of the line (in ckt. km)
1.	132 kV Ranikhet-Almora	25
2.	132 kV Kashipur-Bazpur	16
3.	132 kV Majra-Bindal	9
4.	220 kV Maneri Bhali-II Chamba	38
5.	220 kV Khodri-Chibro	6
6.	132 kV Kichha-CPP (Lalkuan)	19
7.	132 kV Dehradun-Majra	16
8.	132 kV Kulhal-Dehradun	42
9.	132 kV Khodri-Dhakrani	22
10.	132 kV Dhakrani-Dhalipur	7
11.	132 kV Jwalapur-SIDCUL	4
12.	132 kV Chilla-Jwalapur	17
13.	132 kV Jaspur-Kalagarh	33
14.	132 kV Kashipur-Kashipur (400 kV)	5
15.	132 kV KVS- Kashipur	5
16.	132 kV Kalagarh-Kamangar	69
17.	132 kV Ramnagar-Kashipur	20
18.	132 kV Sitarganj-Khatima	33
19.	132 kV Dhalipur-Kulhal	6
20.	132 kV Roorkee-Laksar	27
21.	220 kV Maneri Bhali-I-Maneri Bhali-II	25
22.	132 kV Haldwani-Pantnagar	37
23.	132 kV Pithoragarh-Pithoragarh 220 kV (PGCIL)	15
24.	132 kV Majra-Purkul	23
25.	132 kV Dhalipur-Purkul	48
26.	132 kV Manglore-Roorkee	14
27.	132 kV Pantnagar-Rudrapur	8
28.	220 kV Jhajra-Rishikesh	55
29.	220 kV Uttarkashi-Dharasu	25
30.	132 kV Satpuli-Srinagar	20
31.	132 kV Satpuli -Kotdwar	47
32.	132 kV Kotdwar-Nazibabad	23
33.	132 kV Nazibabad-Chilla	50
34.	132 kV Bhagwanpur-Roorkee (LILo at Chudiyala)	20
35.	220 kV Mahuakherganj-Kashipur	10
36.	132 kV Bhupatwala-Jwalapur	10
37.	132 kV Eldeco (Sitarganj)-Sitarganj	22
38.	132 kV Chandak-Pithoragarh	8
39.	132 kV Almora-Pithoragarh	115
	Total	994

The project “Installation of Remote Terminal Units (RTUs) at various sub-stations and Hydro generating stations” involves design, engineering, manufacturing, supply, installation, testing and commissioning of RTUs and associated accessories. The project covers 23 nos. of RTUs at sub-stations and hydro power plants. The work on the installation of these RTUs was proposed for the MYT Control Period FY 2016-17 to 2018-19 but was not started in the said Control Period. It is now proposed to be completed as a part of this project. Detail of the work plan is as under:

Table 2.2: Work Plan of RTU Installation

SLDC Dehradun	
Sub SLDC Rishikesh	Sub SLDC Kashipur
Name of Sub Station	Name of Sub Station
400 kV S/s Rishikesh (replacement of old RTU)	220 kV S/s Kamalwanganja
220 kV S/s Rishikesh (replacement of old RTU)	132 kV S/s Jaspur
132 kV S/s Jwalapur	132 kV S/s Rudrapur
132 kV S/s Bhupatwala	132 kV S/s ELDECO Sitarganj
132 kV S/s Kotdwar	132 kV S/s Kathgodam
132 kV S/s Bindal	132 kV S/s Almora
132 kV S/s Purkul	132 kV S/s Ramnagar (Nainital)
132 kV S/s IDPL Rishikesh	132 kV S/s Ranikhet
132 kV S/s Srinagar	132 kV S/s Bhowali
132 kV S/s Satpuli	-
132 kV S/s Simli	-
132 kV S/s Majra	-
Name of HEPs	Name of HEPs
-	Ramganga HEP

Up-gradation of Control Centres

SLDC performs the critical task of managing the load in the State. Any lapse due to inadequacy of the system in place can lead to hindrance in the integrated operation of the power system of the State. It is necessary to improve the current IT system to accommodate increasing demands on the power system. The existing systems used in control centers are obsolete and require up-gradation. In view of the same, SLDC is proposing up-gradation of control centers. The major upgrades proposed are listed below:

Up-grading the Operating systems

- Currently, Windows XP is installed in the systems used by SLDC. Since Microsoft has cut off continuous support for Windows XP, the threat protection software are

obsolete and the systems are vulnerable to network threats

- Also, the system architecture is 32 bit, which is old and obsolete. There is no support for both hardware as well as software. Hence, up-gradation is required for operating system as well as hardware and Application software.
- By upgrading the Operating systems to the latest version, regular security updates will be enabled which will ensure that the devices will be protected against all kinds of network threats.
- Hence, it is proposed to upgrade the Operating Systems at SLDC, Dehradun and the Control centres at Kashipur and Rishikesh.

Migration to IPv6 from IPv4

- Internet Protocol Version 4 has started to run into network space problems worldwide, weak security standards, inefficient network administration and inadequate privacy support.
- Migration to IPv6 will make adequate network space available, make administration more efficient and improve security and privacy support.
- Hence, it is proposed to migrate systems of SLDC, Dehradun and the Control centres at Kashipur and Rishikesh to IPv6 from IPv4.

Development of Application Software for Operator Assistance

SLDC also proposes to develop application Software for Operator Assistance in accordance with the guidelines of FOR's report on SAMAST for automation of work pertaining to data handling.

Energy Accounting, Balancing & Settlement Mechanism

Keeping in view the necessity of robust energy accounting, balancing and settlement mechanisms, SLDC is working on an energy accounting and scheduling software and plans to develop advanced settlement mechanisms to increase its responsiveness and ensure grid stability and reliability.

To accommodate expansion in its workforce and capabilities, SLDC plans to acquire assets including office equipment, furniture etc. It also plans to expand its civil infrastructure and office spaces.

Based on the works discussed above, the project wise phasing of capital expenditure and capitalization for SLDC and SCADA for the ensuing Control Period is as given below:

Table 2.3: Capital Investment Plan submitted by SLDC (Rs. Crore)

S. No.	Name of the work	Division	Capital Expenditure				Capitalisation			
			FY 2019-20	FY 2020-21	FY 2021-22	Total	FY 2019-20	FY 2020-21	FY 2021-22	Total
1	Reliable Communication & Data Acquisition System for 132 kV & above sub-stations	SCADA	15.89	7.95	13.62	37.46	0.00	0.00	37.46	37.46
2	Up-gradation of control centres	SCADA	12.00	7.00	5.43	24.43	0.00	0.00	24.43	24.43
3	Development of application software for operator assistance	SLDC	0.75	0.20	0.20	1.15	0.75	0.20	0.20	1.15
4	Energy Accounting, Balancing & Settlement mechanism	SLDC	1.25	0.30	0.30	1.85	1.25	0.30	0.30	1.85
5	Infrastructural development	SLDC	0.08	0.07	0.07	0.22	0.08	0.07	0.07	0.22
	Total		29.97	15.52	19.62	65.11	2.08	0.57	62.46	65.11

The capital investment plan for the MYT Control Period FY 2019-20 to FY 2021-22 has been made to have a robust backbone for acquisition of the real time, reliable and accurate data for energy accounting. It also aims to improve the control centres of SLDC.

2.4.2 Commission's Analysis

The Commission sought the preparedness to execute the capital works proposed and plan for monitoring the progress of execution during the third Control Period from FY 2019-20 to FY 2021-22. In reply to the same, SLDC submitted the following:

- **Reliable Communication & Data Acquisition System for 132 kV & above Sub-stations:** The DPR has been prepared and is currently under re-evaluation which will be followed by tendering.
- **Development of Application Software for Operator Assistance:** The details of the scope of work, technical specifications, cost estimation and TQR etc. are being framed for floating of tenders.
- **Energy Accounting, Balancing & Settlement Mechanism:** The details of the Scope of work, technical specifications, cost estimation and TQR etc. are being framed for floating of tenders.

- **Infrastructural Development:** The details of the Scope of work, technical specifications, cost estimation and TQR etc. are being framed for floating of tenders.
- **Up-gradation of control centres:** The details of the Scope of work, technical specifications, cost estimation and TQR etc. are being framed along with the preparation of the DPR for floating of tenders.

Regulation 21 of the UERC Tariff Regulations, 2018 as under:

“21. Capital Cost and capital structure

(1) The Capital cost as determined by the Commission after prudence check in accordance with this regulation shall form the basis of determination of tariff for existing and new projects of the Generating Company, Transmission Licensee, Distribution Licensee and SLDC.

...”

The Commission accorded in principle approval for the project **“Reliable Communication & Data Acquisition System”** with a total project cost of Rs. 37.46 Crore in its Order dated March 8, 2018. The Petitioner has claimed capitalisation of Rs. 37.46 Crore in FY 2021-22 towards the same.

Based on the analysis of capital expenditure schemes proposed by SLDC, the Commission is of the view that all the capital expenditure schemes are essential and important to strengthen the SLDC and to bring discipline in grid operations. Hence, the Commission for the purpose of the approval of Business Plan for the third Control Period from FY 2019-20 to FY 2021-22 has considered the year wise capital expenditure and capitalisation as proposed by the Petitioner. The Commission shall carry out the prudence check of the actual capitalisation while carrying out the truing up for the respective years. The capital expenditure and capitalisation approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is shown in the Table below:

Table 2.4: Capital Investment Plan approved by the Commission (Rs. Crore)

S. No.	Name of the work	Division	Total cost	Capital Expenditure				Capitalisation			
				FY 2019-20	FY 2020-21	FY 2021-22	Total	FY 2019-20	FY 2020-21	FY 2021-22	Total
1	Reliable Communication & Data Acquisition System for 132 kV & above sub-stations	SCADA	37.46	15.89	7.95	13.62	37.46	0.00	0.00	37.46	37.46
2	Up-gradation of control centres	SCADA	24.43	12.00	7.00	5.43	24.43	0.00	0.00	24.43	24.43
3	Development of application software for operator assistance	SLDC	1.15	0.75	0.20	0.20	1.15	0.75	0.20	0.20	1.15
4	Energy Accounting, Balancing & Settlement mechanism	SLDC	1.85	1.25	0.30	0.30	1.85	1.25	0.30	0.30	1.85
5	Infrastructural development	SLDC	0.22	0.08	0.07	0.07	0.22	0.08	0.07	0.07	0.22
	Total		65.11	29.97	15.52	19.62	65.11	2.08	0.57	62.46	65.11

2.5 Financing Plan

2.5.1 Petitioner's Submissions

The approved cost of project "Reliable Communication & Data Acquisition System for 132 kV & above sub-stations" is Rs. 37.46 Crore. It is proposed to be funded through grant from PSDF and debt from financial institutions in ratio of 50:50. Accordingly, Rs 18.73 Crore shall be provided under PSDF and remaining Rs. 18.73 Crore will be raised as debt from financial institutions.

The project "Up-gradation of control centres", having an estimated cost of Rs. 24.43 Crore is proposed to be funded by loans from different financial institutions for 70% of the project cost and by equity for 30% of the estimated project cost.

The projects titled "Development of Application Software for Operator Assistance" and "Energy Accounting Balancing & Settlement Mechanism" are proposed to be completed by utilizing the amount in the LDCD fund. LDCD Fund was created in FY 2016-17 in accordance with the UERC Tariff Regulations, 2015. Income from short-term open access charges, which includes NOC issuance charges and Registration fee is being deposited to the fund.

SLDC plans to complete its "Infrastructure Development" works by utilizing internal resources. Accordingly, a normative debt to equity ratio of 70:30 has been assumed.

2.5.2 Commission's Analysis

Regulation 24 of the UERC Tariff Regulations, 2018 specifies as follows:

"24. Debt-equity ratio

(1) For a project declared under commercial operation on or after 1.4.2019, debt-equity ratio shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as normative loan. Where actual equity employed is less than 30%, the actual equity would be used for determination of Return on Equity in tariff computations.

..."

Regulation 98 of the UERC Tariff Regulations, 2018 specifies as follows:

"98. LDC Development Fund:

(1) The SLDC shall create and maintain a separate fund called 'Load Despatch Centre Development Fund' ("LDCD Fund").

(2) All the other income of SLDC like short term open access charges, registration charges, scheduling and operating charges, etc. shall be deposited into LDCD Fund.

(3) The SLDC shall be entitled to utilise the money available in the LDCD Fund for creation of new assets, meeting stipulated equity portion in asset creation, margin money for raising loan from the financial institutions and funding of R&D projects.

...

(6) SLDC shall submit the amount accumulated in LDC development fund along with break-up of sources from where the fund is received. The Commission shall review the LDC development fund every year and issue directions to SLDC for effective utilization of the funds, if required."

The Commission has approved the means of finance as proposed by the Petitioner, for all the works except infrastructural development works. The estimated funds available in LDCD fund as on April 1, 2019, as submitted by SLDC shall be approximately Rs. 5.63 Crore. SLDC has proposed to finance the capital expenditure of Rs. 3.00 Crore from LDCD fund during the MYT Control Period. As adequate funds are available in the LDCD fund, in exercise of powers conferred under Regulation 98(6) of the UERC Tariff Regulations, 2018, **the Commission directs SLDC to finance**

the infrastructural works also from LDCD fund and not from internal resources as proposed in its Petition. The Financing Plan approved by the Commission is shown in the Table below:

Table 2.5: Financing Plan approved by the Commission

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed	Approved	Claimed	Approved	Claimed	Approved
Capitalisation (Rs. Crore)	2.08	2.08	0.57	0.57	62.46	62.46
Debt (Rs. Crore)	0.06	0.00	0.05	0.00	35.88	35.83
Equity (Rs. Crore)	0.02	0.00	0.02	0.00	7.35	7.33
LDCD Fund (Rs. Crore)	2.00	2.08	0.50	0.57	0.50	0.57
Grants (Rs. Crore)	0.00	0.00	0.00	0.00	18.73	18.73
Debt (%)	2.69%	0.00%	8.60%	0.00%	57.44%	57.37%
Equity (%)	1.15%	0.00%	3.68%	0.00%	11.77%	11.73%
LDCD Fund (%)	96.15%	100.00%	87.72%	100.00%	0.80%	0.91%
Grants (%)	0.00%	0.00%	0.00%	0.00%	29.99%	29.99%

2.6 Human Resources Plan

2.6.1 Petitioner's Submissions

The HR plan for the third Control Period from FY 2019-20 to FY 2021-22 as submitted by the Petitioner is as shown in the Table below:

Table 2.6: HR Plan as submitted by SLDC

Particulars	FY 2019-20	FY 2020-21	FY 2021-22
Opening no. of employees	30	73	74
Recruitment during the year	44	1	0
Retirement during the year	1	0	0
Closing no. of employees	73	74	74

2.6.2 Commission's Analysis

The Commission directed SLDC to submit the preparedness for the proposed recruitment plan of 44 nos. of employees in FY 2019-20. In reply, SLDC submitted that a proposal for the ring fencing of SLDC was placed before the 65th BoD meeting held on November 28, 2018, which included the staff structure for SLDC. The Minutes of Meeting are still in process and approval of the staff structure is expected. The required manpower will then be transferred from the AEs and JEs that are proposed to be recruited by PTCUL in FY 2019-20. The Commission further directed SLDC to confirm if its proposed recruitment for the third Control Period is included in the recruitment Plan of PTCUL for the third Control Period. In reply, SLDC submitted that its recruitment plan is included in the recruitment plan of PTCUL.

Vide its Tariff Order for FY 2018-19 dated March 21, 2018, the Commission had approved the recruitment of 13 nos. employees for FY 2018-19. In the instant Petition, the Petitioner has proposed no recruitment in FY 2018-19. The recruitment of 13 nos. employees approved in the Tariff Order for FY 2018-19 has been carried forward to FY 2019-20. Considering the current progress of recruitment, it appears to be unlikely that all the proposed employees will be recruited in FY 2019-20. Hence, 50% of the proposed recruitment in FY 2019-20 has been carried forward to FY 2020-21. 50% of the proposed recruitment in FY 2019-20 and the proposed recruitment in FY 2020-21 has been considered in FY 2021-22. The Commission has considered the retirement during each year as submitted by SLDC. The Petitioner shall put in all efforts for meeting the proposed recruitment of employees during each year of the third Control Period from FY 2019-20 to FY 2021-22. The Commission shall consider the actual recruitment and retirement status during the truing up for the respective years. Accordingly, the HR plan approved by the Commission is shown in the Table below:

Table 2.7: HR Plan approved by the Commission

Particulars	FY 2019-20	FY 2020-21	FY 2021-22
Opening no. of employees	30	42	64
Recruitment during the year	13	22	23
Retirement during the year	1	0	0
Closing no. of employees	42	64	87

3 Petitioner's Submission, Commission's Analysis, Scrutiny and Conclusion on APR for FY 2018-19 and MYT for the third Control Period.

3.1 Annual Performance Review for FY 2018-19

3.1.1 GFA base for FY 2018-19

The Petitioner submitted that the opening GFA for FY 2018-19 has been considered as per the Monthly Trial Balance for SLDC and SCADA divisions. The project "Supplying and laying of Optical Power Ground Wire (OPGW) over existing lines of PTCUL along with installation of Fiber Optical Terminal Equipment (FOTE)" is expected to be completed and capitalized in the current financial year. Further, SLDC is expected to capitalize the project "Development of web-based software and implementation of on-line system for grant of NOC to open access customers" during the year. Accordingly, the GFA addition has been considered for FY 2018-19.

The Petitioner has considered the opening GFA for FY 2018-19 as Rs. 13.46 Crore. The Petitioner has proposed the GFA addition of Rs. 31.85 Crore in FY 2018-19 and GFA deduction of Rs. 0.0037 Crore in FY 2018-19. Accordingly, the Petitioner has claimed the closing GFA for FY 2018-19 as Rs. 45.31 Crore.

The Commission, vide its Tariff Order for FY 2018-19 dated March 21, 2018, had approved the opening GFA for FY 2018-19 as Rs. 45.51 Crore based on the estimated GFA addition of Rs. 32.27 Crore in FY 2017-18. However, the actual net GFA addition in FY 2017-18 is only Rs. 0.21 Crore. Accordingly, the Commission, in this Order, has approved the opening GFA for FY 2018-19 as Rs. 13.46 Crore. The Petitioner has proposed the capitalisation of Rs. 31.85 Crore in FY 2018-19. The Commission finds that it has been the practice of the Petitioner to claim capitalisation in its Tariff Petition but has not been able to capitalise the same. Moreover, PTCUL, under whose control the SLDC is functioning currently has not projected any capitalisation for SLDC works in FY 2018-19 in its ARR for FY 2018-19. Therefore, the Commission for the purpose of this Order, has not considered any capitalisation for FY 2018-19. The actual capitalisation shall be considered based on the prudence check at the time of true up for FY 2018-19. Accordingly, the Commission has approved the closing GFA for FY 2018-19 as Rs. 13.46 Crore.

In accordance with Regulation 12(3) of the UERC Tariff Regulations, 2015 the scope of annual performance review does not provide for the revision of estimates for the current year and

give effect on this account in the estimates of the ensuing year. The Commission shall carry out the truing up of FY 2018-19 based on the audited accounts for FY 2018-19 and give effect to this account in the revised ARR of FY 2020-21 in accordance with Regulation 12(3) of the UERC Tariff Regulations, 2018. The Commission has computed certain expenses for FY 2018-19 based on the revised GFA for FY 2018-19 only to facilitate the computations for the ensuing Control Period from FY 2019-20 to FY 2021-22.

3.2 Capitalisation during the third Control Period

The Petitioner has proposed the capitalisation of Rs. 2.08 Crore, Rs. 0.57 Crore and Rs. 62.46 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively as per the Capitalisation Plan submitted in its Petition for approval of Business Plan for the third Control Period from FY 2019-20 to FY 2021-22.

The Commission, in the approval of Business Plan for the third Control Period from FY 2019-20 to FY 2021-22 as discussed in Chapter 2 has approved the capitalisation of Rs. 2.08 Crore, Rs. 0.57 Crore and Rs. 62.46 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively. The Commission has considered the year wise capitalisation for the third Control Period from FY 2019-20 to FY 2021-22 as approved in the Business Plan. The GFA base approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.1: GFA base approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Opening GFA	45.31	13.46	47.39	15.54	47.96	16.11
GFA addition during the year	2.08	2.08	0.57	0.57	62.46	62.46
Closing GFA	47.39	15.54	47.96	16.11	110.42	78.57

3.3 Debt-equity ratio

The Petitioner has proposed the Debt-equity ratio of the proposed capitalisation during the third Control Period as per the Financing Plan submitted in its Petition for approval of the Business Plan for the third Control Period from FY 2019-20 to FY 2021-22.

The Commission, in the approval of Business Plan for the third Control Period from FY 2019-20 to FY 2021-22 as discussed in Chapter 2 has approved the Financing Plan of the approved

capitalisation during the third Control Period. The Commission has considered the Financing Plan for the third Control Period from FY 2019-20 to FY 2021-22 as approved in the Business Plan. The Debt and Equity of approved capitalisation during the third Control Period is as shown in the Table below:

Table 3.2: Financing Plan approved by the Commission

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Capitalisation during the year (Rs Crore)	2.08	2.08	0.57	0.57	62.46	62.46
Debt (Rs. Crore)	0.06	0.00	0.05	0.00	35.88	35.83
Equity (Rs. Crore)	0.02	0.00	0.02	0.00	7.35	7.33
LDCD Fund (Rs. Crore)	2.00	2.08	0.50	0.57	0.50	0.57
Grants (Rs. Crore)	0.00	0.00	0.00	0.00	18.73	18.73
Debt (%)	2.69%	0.00%	8.60%	0.00%	57.44%	57.37%
Equity (%)	1.15%	0.00%	3.68%	0.00%	11.77%	11.73%
LDCD Fund (%)	96.15%	100.00%	87.72%	100.00%	0.80%	0.91%
Grants (%)	0.00%	0.00%	0.00%	0.00%	29.99%	29.99%

3.4 Annual SLDC Charges

Regulation 99 of the UERC Tariff Regulations, 2018 specifies as follows:

“99. Annual SLDC Charges

The annual charges to be recovered by the SLDC shall include the component of Return on Equity and also the following expenses:

- (a) O&M expenses;*
- (b) Return on Equity*
- (c) Depreciation;*
- (d) Lease Charges*
- (e) Interest and Finance charges on Loan Capital;*
- (f) Income Tax, if any;*
- (g) Interest on working capital, if any;*
- (h) Any other expenses incidental to discharging the functions of SLDC as deemed appropriate by the Commission;”*

The Commission in this Order has approved the SLDC Charges for each year of the third Control Period from FY 2019-20 to FY 2021-22 based on the GFA approved for FY 2017-18 for SLDC

works in truing up for FY 2017-18 for PTCUL, revised GFA for FY 2018-19 and approved capitalisation for FY 2019-20 to FY 2021-22 in the Business Plan for SLDC.

3.4.1 Operation and Maintenance expenses

Regarding the Operation and Maintenance expenses, Regulation 100 of the UERC Tariff Regulations, 2018 specifies as follows:

"100. Operation and Maintenance Expenses

(1) *The O&M expenses for the first year of the Control Period will be approved by the Commission taking into account actual O&M expenses for last five years till Base Year subject to prudence check and any other factors considered appropriate by the Commission.*

(2) *The O&M expenses for the nth year and also for the year immediately preceding the Control Period i.e., 2018-19 shall be approved based on the formula given below:-*

$$O\&M_n = R\&M_n + EMP_n + A\&G_n$$

Where –

- *O&M_n – Operation and Maintenance expense for the nth year;*
- *EMP_n – Employee Costs for the nth year;*
- *R&M_n – Repair and Maintenance Costs for the nth year;*
- *A&G_n – Administrative and General Costs for the nth year;*

(3) *The above components shall be computed in the manner specified below:*

$$EMP_n = (EMP_{n-1}) \times (1+G_n) \times (CPIinflation)$$

$$R\&M_n = K \times (GFA_{n-1}) \times (WPIinflation) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WPIinflation) + Provision$$

Where –

- *EMP_{n-1} – Employee Costs for the (n-1)th year;*
- *A&G_{n-1} – Administrative and General Costs for the (n-1)th year;*
- *Provision: Cost for initiatives or other one-time expenses as proposed by the SLDC and validated by the Commission.*

- “K” is a constant specified by the Commission in %. Value of K for each year of the control period shall be determined by the Commission in the MYT Tariff order based on SLDC’s filing, benchmarking of repair and maintenance expenses, approved repair and maintenance expenses vis-à-vis GFA approved by the Commission in past and any other factor considered appropriate by the Commission;
- CPI inflation – is the average increase in the Consumer Price Index (CPI) for immediately preceding three years;
- WPI inflation – is the average increase in the Wholesale Price Index (CPI) for immediately preceding three years;
- GFA_{n-1} - Gross Fixed Asset for the n-1th year;
- G_n is a growth factor for the nth year and it can be greater than or less than zero based on the actual performance. Value of G_n shall be determined by the Commission in the MYT tariff order for meeting the additional manpower requirement based on SLDC’s filings, benchmarking and any other factor that the Commission feels appropriate:

Provided that repair and maintenance expenses determined shall be utilised towards repair and maintenance works only.”

The O&M expenses include Employee expenses, R&M expenses and A&G expenses. In accordance with Regulation 100 of the UERC Tariff Regulations, 2018, the O&M expenses for the first year of the Control Period shall be determined by the Commission taking into account actual O&M expenses of the previous years and any other factors considered appropriate by the Commission. The submissions of the Petitioner and the Commission’s analysis on the O&M expenses for the third Control Period from FY 2019-20 to FY 2021-22 is detailed below.

3.4.1.1 Employee expenses

The Commission had approved the employee expenses of Rs. 6.00 Crore for FY 2018-19 in its Order dated March 21, 2018 on approval of ARR for FY 2018-19. The Petitioner submitted that the actual employee expenses for the first six months of FY 2018-19 were Rs. 1.67 Crore. The Petitioner, in its Petition, has proposed the employee expenses for FY 2018-19 as Rs. 4.75 Crore including the impact of Seventh Pay Commission of Rs. 0.85 Crore.

In order to compute ‘ EMP_{n-1} ’, the Petitioner has averaged the ‘adjusted’ employee expenses

net of capitalization for FY 2015-16 to FY 2017-18 to arrive at the employee expenses for the median year FY 2016-17. Thereafter, the employee expenses, thus arrived for FY 2016-17 have been escalated by the CPI inflation for past three years (5.12%) and growth factor for FY 2017-18 and FY 2018-19 to arrive at 'EMPn-1', employee expenses for FY 2018-19. The 'adjustment' has been carried out in order to bring the employee expenses for FY 2015-16 to FY 2017-18 at par with Seventh Pay Commission salary levels. The Seventh Pay Commission was implemented w.e.f. January 01, 2016 and the salaries were raised to the level of Seventh Pay Commission w.e.f. December 01, 2017. Arrears were paid out to employees for last quarter of FY 2015-16, FY 2016-17 and first 8 months of FY 2017-18 from April, 2017 to November, 2017. Further, the Gn (Growth Factor) has been considered for computation of the employee expenses based on the HR Plan submitted in the Business Plan. Accordingly, the Petitioner has proposed the employee expenses of Rs. 10.71 Crore, Rs. 11.32 Crore and Rs. 11.81 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

The UERC Tariff Regulations, 2018 stipulate the normative O&M expenses for the third Control Period to be approved taking into account the actual O&M expenses for FY 2013-14 to FY 2017-18. As SLDC is not yet incorporated as a separate entity, the Commission did not carry out the true up of SLDC separately.

Regulation 103(2) of the UERC Tariff Regulations, 2018 specifies as under:

"Nothing in these Regulations shall bar the Commission from adopting in conformity with provisions of the Act, a procedure which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or a class of matters, deems it just or expedient for deciding such matter or class of matters."

In view of the special circumstances in this case, in exercise of powers conferred by the above stated Regulation, the Commission finds it prudent to deviate from the methodology stipulated in the UERC Tariff Regulations, 2018 for approval of normative employee expenses for the third Control Period from FY 2019-20 to FY 2021-22 to the extent of consideration of actual employee expenses for the preceding five years.

The Commission has considered the normative opening employee expenses for FY 2018-19, the same as approved in the Tariff Order for FY 2018-19. This normative opening employee expenses have been adjusted for the Gn factor approved for FY 2018-19 and escalated with CPI inflation of 4.34% to arrive at the normative employee expenses for FY 2018-19. To the employee

expenses so computed, the Commission has considered additional 15% expenses as the impact of Seventh Pay Commission. The employee expenses so arrived have been considered as the employee expenses for FY 2018-19. From FY 2019-20 onwards, the Commission has computed the normative employee expenses in accordance with the Regulation 100(3) considering the Gn factor approved for the corresponding year and the CPI inflation of 4.34%.

The Commission, in the approval of the Business Plan for the third Control Period from FY 2019-20 to FY 2021-22 as discussed in Chapter 2 has approved the HR Plan. Based on the approved HR Plan, the Commission has computed the 'Gn' factor as shown in the Table below:

Table 3.3: Gn approved by the Commission

Particulars	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Closing no. of employees	33	30	42	64	87
Gn	-	0%	40%	52%	36%

The normative employee expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.4: Employee expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
EMPn-1	4.22	4.48	10.71	6.55	11.32	10.41
Gn	143.33%	40%	1.37%	52%	0%	36%
CPI inflation	4.34%	4.34%	4.34%	4.34%	4.34%	4.34%
$EMPn = (EMPn-1) \times (1 + Gn) \times (1 + CPIinflation)$	10.71	6.55	11.32	10.41	11.81	14.77

3.4.1.2 R&M expenses

The Commission has approved the R&M expenses of Rs. 0.92 Crore for FY 2018-19 in its Order dated March 21, 2018 on approval of ARR for FY 2018-19. The Petitioner submitted that the actual R&M expenses for the first six months of FY 2018-19 were Rs. 1.47 Crore. The Petitioner has proposed the R&M expenses for FY 2018-19 as Rs. 2.94 Crore.

The Petitioner submitted that the WPI inflation was positive in past years except FY 2015-16. Therefore, it has been considered an outlier and excluded for calculation of average inflation in past three years. Accordingly, the average WPI inflation for last three years (FY 2015-16 to FY 2017-18) was 2.33%.

The Petitioner submitted that a substantial portion the assets of the SLDC and SCADA

division consists of electronic and IT based equipment. For the maintenance of such equipment, the Petitioner enters into Annual Maintenance Contracts (AMCs) through an open bidding process. However, for a few proprietary equipments, the AMC is carried out by OEM only. The cost of such AMC is usually a part of supply contract, which is entered into through open bidding process. The assets under AMCs have been excluded from the GFA for the purpose of projections of the R&M Expenses. Accordingly, to calculate 'GFAn-1', the value of GFA under AMC for each year of the Control Period has been subtracted from the opening GFA of the respective year. The details of assets under AMC for FY 2019-20 along with GFA of the assets is provided in the Table below:

Table 3.5: Projected AMC Details for FY 2019-20 (Rs.)

S. No.	Name of Work/ Details of Asset	Original Cost of the Asset	Amount of AMC (Estimated)
1	AMC of Battery Charger and Battery Bank installed under SCADA EMS Project in PTCUL	14011490.00	1417416.00
2	AMC work of 05 nos. Battery Charger and Battery Bank at various location	1775398.68	452176.00
3	AMC of SCADA EMS System at PTCUL	59390502.96	6293970.61
4	Maintenance and Overhead charges of equipment installed under ULDC-NR Project	-	1100000.00
5	AMC of PUNCOM make PLCC in Uttarakhand.	6480000.00	531824.00
6	AMC of PUNCOM make PABX in Uttarakhand.	2781717.00	328241.00
7	AMC (With parts) of 08 Nos. 2 Ton Spilt Air-Conditioners installed at UPS/Battery Room of SCADA and 02 Nos. 1.5 Ton Split Air Conditioners installed at Video Conferencing room of SCADA at PTCUL Vidyut Bhawan Dehradun.	704163.93	80000.00
8	AMC of ABB make PLCC	16081600.00	2392000.00
9	AMC of telecom PLCC, PABX and RTUs supplied under SCADA/EMS Project by M/s GE T&D India Ltd (formerly M/s Alstom) on single quotation basis.	46952045.00	4732980.00
10	AMC (with parts) of (Repair, Maintenance and complete overhauling (with parts) of Air Conditioning system along with Voltage stabilizer installed in SCADA Control room, Server room installed in Sub LDC Kashipur 400 KV S/s Kashipur	1219000.00	139240.00
11	AMC of Battery Charger and Battery Bank installed under SCADA EMS Project in PTCUL	14011490.00	1417416.00
	Total	149395917.57	17467847.61

Accordingly, the value of assets under AMC works out to Rs. 14.94 Crore. The cost of AMC for FY 2019-20 is estimated to be 1.74 Crore as shown in the Table above. The assets under AMC and the cost of AMC of the assets is assumed same for all the years of the Control Period.

The Petitioner has proposed the K factor of 8.17% considering the average of ratio of actual R&M expenses and approved GFA for immediately preceding three years (FY 2015-16 to FY 2017-18). For calculation of R&M expenses for the MYT Control Period, the opening GFA of each year, net of GFA under AMC for the year is multiplied by K factor and WPI inflation. The AMC expenses

for the respective years has been added to compute the total R&M expenses. Accordingly, the Petitioner has proposed the R&M expenses of Rs. 4.25 Crore, Rs. 4.43 Crore and Rs. 4.47 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

The Commission does not find the methodology proposed by the Petitioner for computing the normative R&M expenses to be prudent as it amounts to allowing the actual R&M expenses. The Commission has determined the R&M expenses for the third Control Period from FY 2019-20 to FY 2021-22 in accordance with UERC Tariff Regulations, 2018. The Commission has computed the percentage of actual R&M expenses upon approved opening GFA for each year of FY 2015-16 to FY 2017-18. Thereafter, the Commission has considered the average of such percentages as K factor which works out to 8.17%. The Commission has considered the opening GFA for each year of the third Control Period from FY 2019-20 to FY 2021-22. The Commission has considered the WPI inflation of 0.33% which is the average increase in the Wholesale Price Index (WPI) for FY 2015-16 to FY 2017-18.

The R&M expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is shown in the Table below:

Table 3.6: R&M expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
K	8.17%	8.17%	8.17%	8.17%	8.17%	8.17%
GFA _{n-1}	30.37	13.46	32.45	15.54	33.02	16.11
WPI inflation	2.33%	0.33%	2.33%	0.33%	2.33%	0.33%
R&M_n=K x (GFA_{n-1}) x (1+WPIinflation)	2.51	1.10	2.68	1.27	2.73	1.32
Add: AMC Fee	1.75	0.00	1.75	0.00	1.75	0.00
Total R&M expenses	4.25	1.10	4.43	1.27	4.47	1.32

3.4.1.3 A&G expenses

The Commission has approved the A&G expenses of Rs. 0.94 Crore for FY 2018-19 in its Order dated March 21, 2018 on approval of ARR for FY 2018-19. The Petitioner submitted that the actual A&G expenses for the first six months of FY 2018-19 were Rs. 0.40 Crore. The Petitioner, in its Petition, has proposed the A&G expenses for FY 2018-19 as Rs. 0.89 Crore.

The Petitioner submitted that the WPI inflation was positive in past years except FY 2015-16.

Therefore, it has been considered an outlier and excluded for calculation of average inflation in past three years. Accordingly, the average WPI inflation for last three years (FY 2015-16 to FY 2017-18) was 2.33%.

The Petitioner submitted that the average of the actual A&G Expenses, net of capitalization for FY 2015-16, FY 2016-17 and FY 2017-18 has been considered as the value of A&G Expenses for the median year FY 2016-17. This amount has then been escalated twice by the average WPI inflation for 3 preceding years to arrive at the estimated value of A&G expenses for FY 2018-19, 'A&Gn-1'. The estimated value of A&G expenses for FY 2018-19 has then been successively increased by the average of the WPI inflation for FY 2015-16, FY 2016-17 and FY 2017-18 (2.33%) for projecting the A&G expenses for the MYT Period. The petition fee for respective year has been added to the projected A&G expenses to arrive at total A&G expenses for each year.

The UERC Tariff Regulations, 2018 stipulate the normative O&M expenses for the third Control Period to be approved taking into account the actual O&M expenses for FY 2013-14 to FY 2017-18. As SLDC is not yet incorporated as a separate entity, the Commission did not carry out the true up of SLDC separately.

Regulation 103(2) of the UERC Tariff Regulations, 2018 specifies as under:

"Nothing in these Regulations shall bar the Commission from adopting in conformity with provisions of the Act, a procedure which is at variance with any of the provisions of these Regulations, if the Commission, in view of the special circumstances of a matter or a class of matters, deems it just or expedient for deciding such matter or class of matters."

In view of the special circumstances in this case, in exercise of powers conferred by the above stated Regulation, the Commission finds it prudent to deviate from the methodology stipulated in the UERC Tariff Regulations, 2018 for approval of normative A&G expenses for the third Control Period from FY 2019-20 to FY 2021-22 to the extent of consideration of actual A&G expenses for the preceding five years.

The Commission has considered the normative A&G expenses approved in the Tariff Order for FY 2018-19 as the base A&G expenses. From FY 2019-20 onwards, the Commission has computed the normative A&G expenses in accordance with Regulation 100(3) considering the WPI inflation of 0.33%. The Petitioner has proposed the Petition fee in addition to the normative A&G expenses computed in accordance with Regulation 100(3). The Commission finds that Regulation

100(3) provides only for consideration of provision towards cost of initiatives or other one-time expenses. The Petition Fee is already included in the normative A&G expenses and hence, cannot be allowed additionally. Therefore, the Commission has not approved any amount towards the one-time provision.

The normative A&G expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.7: A&G expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
A&Gn-1	0.88	0.93	0.90	0.94	0.92	0.94
WPI inflation	2.33%	0.33%	2.33%	0.33%	2.33%	0.33%
Provision	0.05	0.00	0.05	0.00	0.05	0.00
A&Gn=A&Gn-1 x (1+WPIinflation) + Provision	0.95	0.94	0.97	0.94	0.99	0.94

3.4.1.4 O&M expenses

The O&M expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.8: O&M expenses approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Employee expenses	10.71	6.55	11.32	10.41	11.81	14.77
R&M expenses	4.25	1.10	4.43	1.27	4.47	1.32
A&G expenses	0.95	0.94	0.97	0.94	0.99	0.94
Total O&M expenses	15.91	8.59	16.72	12.62	17.28	17.03

3.4.2 Return on Equity

The Petitioner has considered the opening Equity for FY 2019-20 as Rs. 13.57 Crore. The Petitioner has considered the equity addition during each year of the third Control Period from FY 2019-20 to FY 2021-22 equivalent to the equity portion of the proposed capitalisation for the respective year. The Petitioner has proposed the Return on Equity at the rate of 15.50% on the average equity for the year. Accordingly, the Petitioner has proposed the Return on Equity of Rs. 2.11 Crore, Rs. 2.11 Crore and Rs. 2.68 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

Regarding the Return on Equity, Regulation 26 of the UERC Tariff Regulations, 2018 specifies as follows:

“26. Return on Equity

(1) Return on equity shall be computed on the equity base determined in accordance with Regulation 24.

Provided that, Return on Equity shall be allowed on account of allowed equity capital for the assets put to use at the commencement of each financial year.

(2) Return on equity shall be computed on at the base rate of 15.50% for thermal generating stations, transmission licensee, SLDC...”

The Commission has considered the closing equity balance of FY 2017-18 as the opening equity balance for FY 2018-19. As the Commission has not approved any capitalisation for FY 2018-19 in this Order, the same has been considered as the closing equity balance for FY 2018-19. The closing equity balance for FY 2018-19 has been considered as the opening equity balance for FY 2019-20. The Commission has considered the equity addition during each year of the third Control Period from FY 2019-20 to FY 2021-22 as per the approved Financing Plan. In accordance with the Regulations, Return on Equity is allowable on the opening equity for the year. Hence, the Commission has determined the Return on Equity for each year of the third Control Period from FY 2019-20 to FY 2021-22 considering the eligible opening equity for return purposes for the respective years.

The Return on Equity approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.9: Return on Equity approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Opening Equity	13.57	3.77	13.60	3.77	13.62	3.77
Addition during the year	0.02	0.00	0.02	0.00	7.35	7.33
Closing Equity	13.60	3.77	13.62	3.77	20.97	11.10
Rate of Return	15.50%	15.50%	15.50%	15.50%	15.50%	15.50%
Return on Equity	2.11	0.58	2.11	0.58	2.68	0.58

3.4.3 Depreciation

The Petitioner submitted that the asset class wise depreciation has been computed

considering the proposed GFA for each year of the third Control Period from FY 2019-20 to FY 2021-22 and based on the rates of depreciation specified in the UERC Tariff Regulations, 2018. Accordingly, the Petitioner has proposed the depreciation of Rs. 3.48 Crore, Rs. 3.49 Crore and Rs. 5.92 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively. Regulation 28 of the UERC Tariff Regulations, 2018 specifies as follows:

“28. Depreciation

(1) *The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission.*

Provided that depreciation shall not be allowed on assets funded through Consumer Contribution and Capital Subsidies/Grants.

(2) *The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.*

...

(4) *Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix - II to these Regulations.*

...”

Further, Regulation 98(5) of the UERC Tariff Regulations, 2018 specifies as follows:

“Any asset created by the SLDC out of the money deposited into the LDCC Fund shall not be entitled for return on equity, interest on loan and depreciation on same principles as in case of grant. SLDC shall submit details of such assets in the CAPEX plan.”

The Commission has determined the depreciation for the third Control Period from FY 2019-20 to FY 2021-22 considering the approved GFA base and asset class wise rates of depreciation specified in UERC Tariff Regulations, 2018. The depreciation approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table given below:

Table 3.10: Depreciation approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Depreciation	3.48	1.39	3.49	1.38	5.92	3.80

3.4.4 Interest on Loan

The Petitioner has considered the opening loan balance for FY 2019-20 as Rs. 29.22 Crore. The Petitioner has considered the loan addition during each year of the third Control Period from FY 2019-20 to FY 2021-22 equivalent to the loan portion of the proposed capitalisation for the respective year. The Petitioner has considered the normative repayment for each year equivalent to the depreciation for the year. The Petitioner has proposed the interest on loan by applying the interest rate of 11.75% on the average loan for the year. Accordingly, the Petitioner has proposed the interest on loan of Rs. 3.23 Crore, Rs. 2.83 Crore and Rs. 4.39 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

Regulation 27 of the UERC Tariff Regulations, 2018 specifies as follows:

"27. Interest and finance charges on loan capital and on Security Deposit

(1) The loans arrived at in the manner indicated in Regulation 24 shall be considered as gross normative loan for calculation of interest on loan.

(2) The normative loan outstanding as on 01.04.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.03.2019 from the gross normative loan.

(3) The repayment for each year of the Control Period shall be deemed to be equal to the depreciation allowed for that year...

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year after providing appropriate accounting adjustment for interest capitalised:

...

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

..."

The Commission has considered the approved closing loan balance of FY 2017-18 as opening loan balance for FY 2018-19. The Commission has considered the depreciation for FY 2018-19 as the normative repayment for the year. The Commission has considered the closing loan balance for FY 2018-19 as the opening loan balance for FY 2019-20. The Commission has considered the loan addition during each year of the third Control Period from FY 2019-20 to FY 2021-22 as per the

approved Financing Plan. The Commission has considered the normative repayment equivalent to the approved depreciation for each year of the third Control Period from FY 2019-20 to FY 2021-22. The Commission has considered the interest rate of 11.75% which is the actual rate of interest for FY 2017-18. The Commission has determined the interest on loan by applying the interest rate of 11.75% on the average loan balance for each year of the third Control Period from FY 2019-20 to FY 2021-22. The interest on loan approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table given below:

Table 3.11: Interest on Loan approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
Opening loan	29.22	2.90	25.80	1.51	22.36	0.13
Addition	0.06	0.00	0.05	0.00	35.88	35.83
Repayment	3.48	1.39	3.49	1.38	5.92	3.80
Closing loan	25.80	1.51	22.36	0.13	52.32	32.16
Average loan	27.51	2.20	24.08	0.82	37.34	16.14
Rate of interest	11.75%	11.75%	11.75%	11.75%	11.75%	11.75%
Interest	3.23	0.26	2.83	0.10	4.39	1.90

3.4.5 Interest on Working Capital

The Petitioner has submitted that the interest on working capital for the third Control Period from FY 2019-20 to FY 2021-22 has been proposed in accordance with UERC Tariff Regulations, 2018. Accordingly, the Petitioner has proposed the IWC of Rs. 1.10 Crore, Rs. 1.13 Crore and Rs. 1.27 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

The Commission has determined the interest on working capital for the third Control Period in accordance with the UERC Tariff Regulations, 2018.

3.4.5.1 One Month O&M Expenses

The annual O&M expenses approved by the Commission are Rs. 8.59 Crore, Rs. 12.62 Crore and Rs. 17.03 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively. Based on the approved O&M expenses, one month's O&M expenses works out to Rs. 0.72 Crore, Rs. 1.05 Crore and Rs. 1.42 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

3.4.5.2 Maintenance Spares

The Commission has considered the maintenance spares as 15% of O&M expenses in accordance with UERC Tariff Regulations, 2018, which works out to Rs. 1.29 Crore, Rs. 1.89 Crore

and Rs. 2.55 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

3.4.5.3 Receivables

The Commission has approved the receivables for two months based on the approved SLDC Charges of Rs. 11.35 Crore, Rs. 15.44 Crore and Rs. 24.42 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively, which works out to Rs. 1.89 Crore, Rs. 2.57 Crore, Rs. 4.07 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively.

Based on the above, the total working capital requirement of the Petitioner for FY 2019-20, FY 2020-21 and FY 2021-22 works out to Rs. 3.90 Crore, Rs. 5.52 Crore and Rs. 8.04 Crore respectively. The Commission has considered the rate of interest on working capital as 13.75% equal to State Bank Advance Rate (SBAR) of State Bank of India as on the date of filing of the MYT Petition and, accordingly, the interest on working capital works out to Rs. 0.54 Crore, Rs. 0.76 Crore, Rs. 1.11 Crore for FY 2019-20, FY 2020-21 and FY 2021-22 respectively. The interest on working capital approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.12: Interest on working capital approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
O&M expenses for 1 month	1.33	0.72	1.39	1.05	1.44	1.42
Maintenance Spares	2.39	1.29	2.51	1.89	2.59	2.55
Receivables equivalent to 2 months	4.30	1.89	4.38	2.57	5.26	4.07
Working Capital	8.02	3.90	8.28	5.52	9.29	8.04
Rate of Interest on Working Capital	13.70%	13.75%	13.70%	13.75%	13.70%	13.75%
Interest on Working Capital	1.10	0.54	1.13	0.76	1.27	1.11

3.4.6 Non-Tariff Income

The Petitioner has not proposed any non-tariff income. The Commission has not considered any non-tariff income in this Order. The actual non-tariff income shall be considered at the time of true up for the respective year of the third Control Period.

3.4.7 SLDC Charges

Based on the above, the SLDC Charges approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 is as shown in the Table below:

Table 3.13: SLDC Charges approved by the Commission for the third Control Period from FY 2019-20 to FY 2021-22 (Rs. Crore)

Particulars	FY 2019-20		FY 2020-21		FY 2021-22	
	Claimed by SLDC	Approved	Claimed by SLDC	Approved	Claimed by SLDC	Approved
O&M expenses	15.91	8.59	16.72	12.62	17.28	17.03
Return on Equity	2.10	0.58	2.11	0.58	2.68	0.58
Depreciation	3.48	1.39	3.49	1.38	5.92	3.80
Interest on Loan	3.23	0.26	2.83	0.10	4.39	1.90
Interest on Working Capital	1.10	0.54	1.13	0.76	1.27	1.11
Less: Non-Tariff Income	0.00	0.00	0.00	0.00	0.00	0.00
SLDC Charges	25.83	11.35	26.28	15.44	31.53	24.42

3.4.8 LDC Development Fund

Regulation 98 of UERC Tariff Regulations, 2018 specifies as under:

“98. LDC Development Fund:

- (1) The SLDC shall create and maintain a separate fund called ‘Load Despatch Centre Development Fund’ (“LDCD Fund”).
- (2) All the other income of SLDC like short term open access charges, registration charges, scheduling and operating charges, etc. shall be deposited into LDCD Fund.
- (3) The SLDC shall be entitled to utilise the money available in the LDCD Fund for creation of new assets, meeting stipulated equity portion in asset creation, margin money for raising loan from the financial institutions and funding of R&D projects.
- (4) The LDCD Fund shall not be utilized for revenue expenditure except to meet the short fall, if any, in the annual charges allowed by the Commission or to meet the contingency expenses which were not foreseen at the time of making the application for fees and charges and are considered necessary for the efficient power system operation. However, such draws from the said fund shall be recouped from the expenditure allowed by the Commission under the respective heads at the time of truing up.

- (5) Any asset created by the SLDC out of the money deposited into the LDCD Fund shall not be entitled for return on equity, interest on loan and depreciation on same principles as in case of grant. SLDC shall submit details of such assets in the CAPEX plan.
- (6) SLDC shall submit the amount accumulated in LDC development fund along with the break-up of sources from where the fund is received. The Commission shall review the LDC development fund every year and issue directions to SLDC for effective utilization of the funds, if required."

The Petitioner submitted that the LDCD fund was created in FY 2016-17 and income from short-term open access charges, which includes NOC issuance charges and Registration fee is being deposited to the fund. The position of LDCD fund as submitted by the Petitioner is shown in the Table below:

Table 3.14 Position of LDCD Fund as submitted by SLDC (Rs. Crore)

S. No.	Particulars	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
a	Opening LDCD Fund	0.00	1.90	4.07	5.63	5.36	6.68
	Add:						
b	Additions in LDCD Fund during the year on account of:						
(i)	Short Term Open Access	1.88	2.15	1.63	1.71	1.80	1.89
(ii)	Registration Fees	0.02	0.02	0.02	0.02	0.02	0.02
c	Total LDCD Fund	1.90	4.07	5.72	7.36	7.18	8.59
d	Less:						
(i)	Utilisation for Capital Expenses	0.00	0.00	0.09	2.00	0.50	0.50
e	Net LDCD Fund as on 31st March of the Year	1.90	4.07	5.63	5.36	6.68	8.09

The LDCD fund approved by the Commission is as shown in the Table below:

Table 3.15: Position of LDCD Fund as considered by the Commission (Rs. Crore)

Particulars	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Opening LDCD Fund	4.07	5.72	5.37	6.62
Additions during the year	1.65	1.73	1.82	1.91
Total LDCD Fund	5.72	7.45	7.19	8.53
Less: Utilisation for capital expenditure	0.00	2.08	0.57	0.57
Closing LDCD Fund	5.72	5.37	6.62	7.96

The Petitioner is directed to utilize the money out of LDCD fund only in creation of new assets in accordance with Regulation 98(3) and not meeting any revenue expenditure as was proposed by the Petitioner in its Business Plan for the third control period that it would carry out capacity building from funds available in LDCD fund.

3.4.9 *Operating Charges*

The Commission vide UERC (Terms and Conditions of Intra-State Open Access) Regulations, 2015 has specified the Operating Charges in respect of short-term open access customers. Regulation 21 of the UERC (Terms and Conditions of Intra-State Open Access) Regulations, 2015 specify the Operating Charges for the Short-term Open Access customer which is reproduced hereunder:

“21. SLDC and System Operation Charges:

SLDC and System Operation Charges shall be payable by Open Access customers at the following rates:-

(1) Transactions involving inter-State transmission system

...

(b) Short-term open access

Regional Load Despatch Centre and State load despatch centre system operation charges as specified by the Central Commission.

(2) Transactions not involving inter-State transmission system

...

(b) Short-term open access

System Operation charge per day or for part of the day shall be payable by a short-term open access customer for each transaction to SLDC as determined by the Commission from time to time.

[Explanation: System Operation charge includes fee for scheduling and system operation, energy accounting, fee for affecting revisions in schedule on bonafide grounds and collection and disbursement of charges.]

In compliance of the aforesaid Regulation 21(2)(b), the Commission has decided to retain the system operation charges of Rs. 3,000 per day or part of the day for each transaction payable to the SLDC by intra-state open access customers with effect from the date of issue of this Order.

4 Commission's Directives

The Commission in its previous Orders had issued a number of specific directions to SLDC with an objective of attaining operational efficiency and streamlining the flow of information, which would be beneficial for the Sector and the Petitioner both in short and long term. This Chapter deals with the compliance status and Commission's views thereon as well as the summary of new directions for compliance and implementation by SLDC.

4.1 Compliance of Directives issued in APR Order for FY 2017-18 dated March 21, 2018

4.1.1 *Project Cost & Transfer of assets from PTCUL to SLDC*

The Commission directed SLDC that the provisions of the UERC Tariff Regulations, 2015 has to be complied strictly by SLDC regarding maintenance of its expenses related to operation of SLDC. The Commission also directed SLDC to file the Petition seeking truing up of FY 2017-18 alongwith the APR of FY 2018-19 in accordance with the MYT Regulations, 2015, failing which action may be initiated against it under the provisions of the Act.

Petitioner's Submissions

The ring fencing of SLDC is under process and thus, the accounts for SLDC are not prepared (and audited) separately. Hence, a combined true up has been filed for PTCUL and SLDC. SLDC requested the Commission to exempt it from filing separate true up for FY 2017-18 and allow it time extension for segregation of accounts of PTCUL and SLDC. SLDC submitted that based on MTB of SLDC and SCADA, a separate APR and MYT Petition has been filed.

The Commission has carried out the true up of FY 2017-18 for PTCUL as a whole as SLDC has not claimed the true up separately in the absence of separate accounts for SLDC. **The Commission directs SLDC that the provisions of the UERC Tariff Regulations, 2015 has to be complied strictly by SLDC regarding maintenance of its expenses related to operation of SLDC. The Commission also directs SLDC to file the Petition seeking truing up of FY 2018-19 along with the APR of FY 2019-20 in accordance with the MYT Regulations, 2015.**

4.1.2 *LDC Development Fund*

The Petitioner is directed to ensure timely submission of the completed cost along with the scheduled COD, actual COD and actual IDC incurred on the projects developed through LDC

Development fund within 30 days of CoD of the project/works.

Petitioner's Submissions

The information of projects completed through LDCD fund shall be submitted to the Commission in a timely manner. SLDC requested the Commission to allow a time period of 90 days for submission of information for future projects.

The Petitioner has not submitted any justification for its request for the time period of 90 days for submission of completion cost of new projects. **Therefore, the Petitioner is directed to ensure timely submission of the completed cost along with the scheduled COD, actual COD and actual IDC incurred on the projects developed through LDC Development fund within 30 days of CoD of the project/works.**

4.1.3 Grant of NOC to Open Access Customers

With regard to implementation of on-line system of grant of NOC to open access customers, the Commission directs the Petitioner to submit quarterly progress report to the Commission.

Petitioner's Submissions

Number of Open Access registrations for the months of May and June, 2018 from the online portal have been submitted to the Commission. Regular reports of the usage of the Web Based Portal shall be submitted to the Commission.

4.1.4 Employee expenses

The Petitioner is directed to maintain separate details of the amount paid as arrears to its employees on account of implementation of the recommendations of VII Pay Commission alongwith the next APR Petition.

Petitioner's Submissions

The details of estimated arrears to be paid was submitted to the Commission. SLDC and SCADA divisions have maintained separate details for the arrear paid on account of the Seventh Pay Commission. As required, the details of arrears actually paid to the employees have been submitted in the MYT Petition.

The Petitioner is directed to submit the amount paid as arrears to its employees in FY 2018-19 on account of implementation of the recommendations of VII Pay Commission in the

true up Petition of FY 2018-19.**4.1.5 AMC Contracts**

The Commission directs the Petitioner to execute AMC contracts only after following proper tendering procedures and keep the cost of AMC to the bare minimum in accordance with the norms.

Petitioner's Submissions

Proper procedure (open tendering) is being followed for procurement of AMC contracts. However, for a few proprietary assets, it is necessary to keep the OEM engaged for maintenance of the assets. The details of AMC contracts along with the estimated cost for the year and Control Period have been submitted in the MYT Petition.

4.2 Fresh Directives**4.2.1 Financing of infrastructural works (Para 2.5.2)**

As adequate funds are available in the LDCD fund, in exercise of powers conferred under Regulation 98(6) of the UERC Tariff Regulations, 2018, the Commission directs SLDC to finance the infrastructural works also from LDCD fund and not from internal resources as proposed in its Petition.

4.2.2 LDCD Fund (Para 3.4.8)

The Petitioner is directed to utilize the money out of LDCD fund only in creation of new assets in accordance with Regulation 98(3) and not meeting any revenue expenditure as was proposed by the Petitioner in its Business Plan for the third control period that it would carry out capacity building from funds available in LDCD fund.

The SLDC charges approved for FY 2019-20 will be applicable from April 01, 2019 till revised by the Commission.

**(Subhash Kumar)
Chairman**

5 Annexures

5.1 Annexure-1: Public Notice on SLDC's Proposal for Multi Year Tariff from 2019-20 to 2021-22



POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD
 (A Govt. of Uttarakhand Enterprise) Corporate ID U40101UR2004GOI028675
 "Vidyut Bhawan" Near ISBT, Crossing, Saharanpur Road,
 Majra, Dehradun-248002 Phone No. 0135-2642006 Fax No. 01352643460

PUBLIC NOTICE

Inviting Comments on the petition filed by SLDC for Annual Performance Review for FY 2018-19 and Multi Year Tariff for FY 2019-20 to FY 2021-22

Salient features of MYT Petition

State Load Despatch Centre (SLDC), which has been made operational for grid control and despatch of electricity and other related works w.e.f. November 27, 2012 in the State of Uttarakhand, has filed a petition before the Commission for approval of Annual Performance Review for FY 2018-19 and Multi Year Tariff for FY 2019-20 to FY 2021-22. The summary of proposals made by SLDC for the aforesaid is given in the following Table: (Rs in Cr.)

S. No	Particulars	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22
		Approved in Tariff Order	Revised Estimates	Proposed	Proposed	Proposed
1	O&M expenses	7.86	8.58	15.91	16.72	17.28
2	Interest on Loan	2.84	2.27	3.23	2.83	4.39
3	Return on Equity	2.07	1.36	2.10	2.11	2.68
4	Depreciation	3.43	2.43	3.48	3.49	5.92
5	Interest on Working Capital	0.64	0.62	1.10	1.13	1.27
6	Total ARR	16.84	15.28	25.83	26.28	31.53
7	Less: Non-tariff Income	0.00	0.00	0.00	0.00	0.00
8	Net ARR	16.84	15.28	25.83	26.28	31.53

2. SLDC has proposed a tariff hike of 53.38% for FY 2019-20 over the approved SLDC charges for FY 2018-19. In case, the entire claim of SLDC is accepted by the Commission, additional hike of 0.13% in consumer tariff shall be required over and above the hike proposed by UPCL.

3. Detailed proposals can be seen free of cost on any working day at the Commission's office or at the office of Managing Director, Power Transmission Corporation of Uttarakhand Limited, Dehradun. Relevant extracts can also be obtained from the above mentioned offices of the Petitioner.

4. The proposals are also available at the website of the Commission (www.uerc.gov.in) and at SLDC's website (www.ukslc.in)

5. Responses/suggestions if any are sought from the consumers and other stakeholders on the above proposals. Responses may be sent to the Secretary, Uttarakhand Electricity Regulatory Commission, either in person, or by post at Vidyut Niyamak Bhawan, Near I.S.B.T., P.O.-Majra Dehradun-248171 or through e-mail to secy.uerc@gov.in as a statement of objections or comments with copies of the documents and evidence in support thereof so as to reach the Secretary by 31.01.2019.

Letter No.201/SLDC Dated: 18.12.2018 **Managing Director**

"Save Electricity in the Interest of Nation"

5.2 Annexure-2: Public Notice on SLDC's Proposal for Business Plan from 2019-20 to 2021-22



POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD

(A Govt. of Uttarakhand Enterprise) Corporate ID U40101UR2004GOI028675

"Vidyut Bhawan" Near ISBT, Crossing, Saharanpur Road,
Majra, Dehradun-248002 Phone No. 0135-2642006 Fax No. 01352643460

PUBLIC NOTICE

Inviting Comments on the Petition filed by SLDC for approval of the Business Plan for FY 2019-20 to FY 2021-22

1. State Load Despatch Centre (SLDC), which has been made operational for grid control and despatch of electricity and other related works w.e.f November 27, 2012 in the State of Uttarakhand, has filed a petition before the Commission for approval of its Business Plan for FY 2019-20 to FY 2021-22 giving details of the activities proposed to be carried out by it during this Control Period.
2. Detailed proposals can be seen free of cost on any working day at the Commission's office or at the office of Managing Director, Power Transmission Corporation of Uttarakhand Limited, Dehradun. Relevant extracts can also be obtained from the above mentioned offices of the Petitioner.
3. The proposals are also available at the website of the Commission (www.uerc.gov.in) and at SLDC's website (www.uksldc.in)
4. Objections/suggestions are invited from the consumers and other stakeholders

on the above proposals. These may be sent to the Secretary, Uttarakhand Electricity Regulatory Commission either in person, or by post at Vidyut Niyamak Bhawan, Near I.S.B.T, P.O.- Majra, Dehradun 248171 or through e-mail to secy.uerc@gov.in as a statement of objections or comments with copies of the documents and evidence in support thereof so as to reach the Secretary by 31.01.2019

Letter No.202/SLDC Dated: 18.12.2018

Managing Director

"Save Electricity in the Interest of Nation"

5.3 Annexure-3: List of Participants in Public Hearing

List of Participants in Hearing at Srinagar on 29.01.2019

Sl. No.	Name	Designation	Organization	Address
1.	Sh. Darshan Singh Bhandari	-	-	Near Nagaraja Mandir, Village Srikot, Gangnali, Srinagar Garhwal
2.	Sh. Y.S. Panwar	-	-	Ramakunj, Srikot, Gangnali, Srinagar Garhwal
3.	Sh. Chandi Prasad	-	-	Naur Kinkleshwar, Chauras, Tehsil & Distt. Tehri Garhwal
4.	Sh. Kavindra Singh Bisht	-	-	1148, Indira Nagar Colony, P.O.: New Forest, Dehradun-248006
5.	Sh. Mohan Singh Negi	-	-	Village-Mandhi Chauras, P.O : Kinkleshwar, Vikaskhand Kirtinagar, Distt. Tehri Garhwal
6.	Sh. Dhirendra Singh Rawat	-	-	Village-Odda, Block-Koti, P.O. Khandiyusain, Pauri Garhwal
7.	Sh. Maatbar Singh Negi	-	-	Mohalla Kinkleshwar, Near Bank of India, Distt. Pauri Garhwal
8.	Sh. Birendra Singh Negi	Chairman	M/s Industrial Development Association	C/o Pindar Tyre Retreding, Simli-246474, Distt. Chamoli
9.	Sh. Kamal Rawat	-	-	P.O. Khandah, Srinagar Garhwal
10.	Sh. Sanjay Jain	-	Tropical Dairy	GIC Road, Srinagar Garhwal
11.	Sh. Madan Mohan Nautiyal	-	-	GIC Road, Srinagar Garhwal
12.	Sh. Dayal Singh Rawat	-	-	Manichauras, P.O. Kinkleshwar, Tehri Garhwal
13.	Sh. Uday Ram Lakheda	-	-	Narsari Road (Milan Kendra), Srinagar Garhwal
14.	Sh. Mahendra Pal Singh Rawat	-	-	Village-Sunaar Gaon, Near Daak Bangla, Srinagar Garhwal
15.	Sh. Hridaya Ram Kotnala	-	-	H.No. 9/60, Shakti Vihar, Bhaktiyana, Srinagar Garhwal

List of Participants in Hearing at Dehradun on 31.01.2019

Sl. No.	Name	Designation	Organization	Address
1	Sh. Pankaj Gupta	President	M/s Industries Association of Uttarakhand	C/o Satya Industries, Mohabbewala Industrial Area, Dehradun
2	Sh. Rajiv Agarwal	Sr. Vice-President	M/s Industries Association of Uttarakhand	C/o Satya Industries, Mohabbewala Industrial Area, Dehradun
3	Sh. Rakesh Bhatia	President	M/s Uttarakhand Industrial Welfare Association	E-8, Govt. Industrial Area, Patel Nagar, Dehradun
4	Bijay Singh Tomar	State General	Laghu Udhyog	E-11, UPSIDC Industrial Area,

List of Participants in Hearing at Dehradun on 31.01.2019

Sl. No.	Name	Designation	Organization	Address
		Secretary	Bharti	Selaqui, Dehradun
5	Sh. Anil Marwah	State President	M/s Uttarakhand Industrial Welfare Association	222/5, Gandhi Gram, Kanwali Road, Dehradun, Uttarakhand
6	Sh. K.L. Khanduja	-	Sh. Ganesh Roller Floor Mills	Mohabbewala Industrial Area, Subhash Nagar, Dehradun-248001
7	Sh. Akash Agarwal	-	Arunachal Pradesh Power Corporation Ltd.	B-17, Sector-1, Noida
8	Sh. Arvind Jain	Member	Tarun Kranti Manch (Regd.)	6-Ramleela Bazaar, Dehradun
9	Sh. Anil Kumar Jain	-	-	Ramanuj Court, Sukhi Nadi, Bhupatwala, Haridwar
10	Sh. Naval Duseja	DGM (Finance & Accounts)	M/s Flex Foods Ltd.	Lal Tappar Industrial Area, P.O. Resham Majri, Haridwar Road, Dehradun-248140
11	Sh. Vijay Singh Verma	Secretary	Kisan Club	Village-Delna, P.O. Jhabrera, Haridwar-247665, Uttarakhand
12	Sh. Mahesh Sharma	Convener	M/s Uttarakhand Industrial Welfare Association	Off. G-31, UPSIDC, Industrial Area, Selaqui, Dehradun, Uttarakhand
13	Sh. Vijay Verma	-	M/s Shiv Shakti Electricals Ltd.	Sarrafa Bazaar, Kankhal, Distt. Haridwar, Uttarakhand
14	Sunil Uniyal	-	M/s Fillmatic Packaging Systems	323 MI, Central Hope Town, Selaqui Industrial Area, Dehradun
15	Sh. Divas Joshi	-	-	Engineers Enclave, Phase-2, GMS Road, Dehradun
16	Mohd. Yusuf	-	-	73, Turner Road, Clementown, Dehradun
17	Sh. Sunil Gupta	Editor	Teesri Aankh ka Tehalka	16, Chakrata Road (Tiptop Gali), Dehradun-248001
18	Sh. Munish Talwar	-	M/s Asahi India Glass Ltd.	Integrated Glass Plant, Village-Latherdeva Hoon, Manglaur-Jhabrera Road, P.O. Jhabrera, Tehsil Roorkee, Haridwar
19	Sh. Suresh Kumar	-	-	Majra, Dehradun
20	Smt. Geeta Bisht	Spokesperson	District Congress Committee	Mohanpur, Post Off.-Premnagar, Dehradun-248007
21	Sh. V. Viru Bisht	-	-	Mohanpur, Post Off.-Premnagar, Dehradun-248007
22	Sh. Kavindra Singh Bisht	-	-	1148, Indira Nagar Colony, PO-New Forest, Dehradun-248006.
23	Sh. Manish Kathait	-	M/s Akshay Urja	47/1, Chakrata Road, Vasant Vihar,

List of Participants in Hearing at Dehradun on 31.01.2019

Sl. No.	Name	Designation	Organization	Address
			Association Ltd.	Dehradun-248006
24	Sh. Vishwamitra	-	-	36-Panchsheel Park, Chakrata Road, Dehradun
25	Sh. Ashok Goswami	Manager	Shetra Mai Jeevni Ram Sukhdevi Ram Trust	Haridwar Road, Rishikesh, Dehradun
26	Sh. Surya Prakash	-	-	271/153, Dharampur, Dehradun
27	Sh. Khemchand Gupta	-	-	Baldev Niwas, Sampurna Vihar, Shaheed Gajendra Singh Bisht Road (Shimla Road), Badowala Aarkedia, Premnagar, Dehradun.

List of Participants in Hearing at Almora on 04.02.2019

Sl. No.	Name	Designation	Organization	Address
1.	Sh. Nayan Pant	-	-	Pant Niwas, Sitoli Road, Laxmeshwar, Distt. Almora, Uttarakhand
2.	Sh. Ranjeet Singh Bisht	-	-	Village-Gurroda, P.O.-Gurroda Bang, Distt. Almora-263623
3.	Sh. P.C. Joshi	District President	Forest Panchayat Development Society	Laver Mall, Thapaliya, Distt. Almora
4.	Sh. Naveen Chandra Joshi	Former Warrant Officer	-	S/o Late Sh. Tara Datt Joshi, Resident-Bakshi Khola, Post Off. & Distt. Almora-263601, Uttarakhand
5.	Sh. Amar Singh Karki			Mohalla-Makedi, P.O. & Distt. Almora-263601, Uttarakhand
6.	Sh. Prakash Chand Joshi	Chairman	Nagar Palika Parishad-Almora	Opp. Kheem Singh Rautela Sweet Shop, Distt. Almora
7.	Sh. T.S. Karakoti	-	-	Karakoti Niwas, Near Shankar Bhawan, East Pokhar Khali, Distt. Almora-263601, Uttarakhand
8.	Sh. Rajendra Kumar			S/o Sh. Pratap Singh Bisht, Talla Dupkia, Distt. Almora
9.	Sh. Bhupen Joshi			117, Uppar Gali, Jakhan Devi, Distt. Almora
10.	Sh. Vijay Pandey			Pokhar Khali, Near Sai Mandir, Distt. Almora
11.	Sh. Pooran Chandra Tiwari	General Secretary	Uttarakhand Lok Vahini	"Mitra Bhawan", Talla Galli, Jakhandevi, Distt. Almora, Uttarakhand.
12.	Sh. P.G. Goswami			East Pokhar khali, Near Home Guard Office, Distt. Almora
13.	Sh. Keshav Datt Pandey			Malla Kholta, Distt. Almora-263601

List of Participants in Hearing at Almora on 04.02.2019

Sl. No.	Name	Designation	Organization	Address
14.	Sh. Laxman Singh Aithani			Malla Chausar, Distt. Almora-263601
15.	Sh. Puran Singh Rautela	President	Nagar Congress	Distt. Almora, Uttarakhand
16.	Sh. Girish Dhawan			Alaknanda House, NTD, Distt. Almora, Uttarakhand
17.	Sh. Sanjay Kumar Agrawal	Director	Shree Karuna Jan Kalyan Samiti (Regd.)	Saroj Kunj, Sanjay Bhawan, Malla Joshi Khola, Distt. Almora-263601, Uttarakhand
18.	Sh. Shyam Lal Shah	Former President	Prantiya Udyog Vyapaar Pratinidhi Mandal	Gangula Mohalla, Distt. Almora, Uttarakhand
19.	Sh. Roop Singh Bisht			Sarrop Cottage, Makeri, Dharanaula Road, Distt. Almora-263601, Uttarakhand
20.	Sh. M.H. Negi			Narsingh Bari, Near Nirankari Bhawan, Distt. Almora, Uttarakhand
21.	Sh. Manoj Upreti			Laxhmeshwar, Near UPCL Distt. Sub-Station & Gas Godown, Distt. Almora, Uttarakhand
22.	Sh. P.C. Tiwari	Advocate & Central President	Uttarakhand Parivartan Party	Devki Niwas, Dharanaula, Distt. Almora-263601, Uttarakhand
23.	Sh. Manoj Joshi			Near Sunari Naula, Mohalla-Kholta, Distt. Almora-263601, Uttarakhand.
24.	Sh. K.B. Pandey	-	-	Talla Tilakpur, Sunari Naula, Distt. Almora, Uttarakhand

List of Participants in Hearing at Rudrapur on 05.02.2019

Sl. No.	Name	Designation	Organization	Address
1.	Sh. Shakeel A. Siddiqui	Sr. General Manager (Finance)	M/s Kashi Vishwanath Textile Mill (P) Ltd.	5 th KM Stone, Ramnagar Road, Kashipur-244713, Distt. Udham Singh Nagar.
2.	Sh. B.S. Sehrawat	-	M/s ACME Cleantech Solutions Ltd.	Plot 3-8, 29-34, Sector-5, Integrated Industrial Estate Sidcul, Rudrapur, Distt. Udham Singh Nagar.
3.	Sh. R.S. Yadav	Vice President (HR & Admn.)	M/s India Glycols Ltd.	A-1, Industrial Area, Bazpur Road, Kashipur-244713, Distt. Udham Singh Nagar.
4.	Sh. Ashok Bansal	President	M/s Kumaon Garhwal Chamber of Commerce &	Chamber House, Industrial Estate, Bazpur Road, Kashipur, Distt. Udham Singh Nagar.

List of Participants in Hearing at Rudrapur on 05.02.2019

Sl. No.	Name	Designation	Organization	Address
			Industry Uttarakhand	
5.	Sh. Ajir Awasthi	-	M/s Alpa India Pvt. Ltd.	Plot No. D 11(C), Phase -2, Eldeco Sidcul Industrial Park, Sitarganj, Distt. Udham Singh Nagar.
6.	Sh. Suresh Kumar	-	M/s La Opala RG Ltd.	B-108, Eldeco Sidcul Industrial Park, Sitarganj, Distt. Udham Singh Nagar
7.	Sh. Sunil Nayal	-	M/s Auto Line Industries Ltd.	Plot No. 5, 6, 8 Sector-11, Tata Vendor Park, SIDCUL, Pantnagar, Distt. Udham Singh Nagar
8.	Sh. R.K. Singh	Head (CPED&E)	M/s Tata Motors Ltd.	Plot No. 1, Sector 11, Integrated Industrial Estate, SIDCUL, Pantnagar-263153, Distt. Udham Singh Nagar.
9.	Sh. S.K. Garg	-	M/s BST Textile Mills Pvt. Ltd.	Plot 9, Sector 9, IIE, SIDCUL, Pantnagar, Distt. Udham Singh Nagar
10.	Sh. G.S. Sandhu	Managing Director	M/s Tarai Foods Ltd.	Sandhu Farms, P.O. Box No. 18, Rudrapur-263153, Distt. Udham Singh Nagar.
11.	Sh. R.P. Singh	Executive Director	M/s Tarai Foods Ltd.	Sandhu Farms, P.O. Box No. 18, Rudrapur-263153, Distt. Udham Singh Nagar.
12.	Sh. Sreekar Sinha	-	M/s Endurance Technologies Ltd.	Plot Nos.-03 & 07, Sector-10, IIE, Pantnagar, Distt. Udham Singh Nagar-263153
13.	Sh. Sarang Agarwal	-	M/s Umashakti Steels Pvt. Ltd.	Village-Vikrampur, PO-Bazpur, Distt. Udham Singh Nagar.
14.	Sh. Teeka Singh Saini	President	Bhartiya Kisan Union	33, Katoratal, Kashipur, Distt. Udham Singh Nagar
15.	Sh. Balkar Singh Fozi	-	-	Village-Raipur Khurd, Kashipur, Distt. Udham Singh Nagar
16.	Sh. Kuldeep Singh	-	Bhartiya Kisan Union	Village-Dakiya Kalan, Post Off.-Dakiya No.-I, Tehsil-Kashipur, Distt. Udham Singh Nagar-244713
17.	Sh. R.B. Biradar	Sr. General Manager	M/s Radico Khaitan Ltd.	A-1, A-2, B-3, Industrial Area, Bazpur, Distt. Udham Singh Nagar
18.	Sh. B.S. Sandhu	-	-	Village-Paiga Farm, P.O. Mahuakheraganj, Tehsil-Kashipur, Distt. Udham Singh Nagar
19.	Sh. Kalyan Singh Dhillow	-	-	Village-Girdhayi, P.O. Mahuakheraganj, Tehsil-Kashipur, Distt. Udham Singh Nagar
20.	Sh. Sukhdev Singh	Block President	Bhartiya Kisan Union	Village-Narkheda, p.o. Bazpur, Distt. Udham Singh Nagar.
21.	Sh. Rajesh Kumar Mishra	-	M/s Sidcul	Plot No. 1, Sector-9, IIE, SIDCUL

List of Participants in Hearing at Rudrapur on 05.02.2019

Sl. No.	Name	Designation	Organization	Address
			Entrepreneur Welfare Society	Pantnagar, Distt. Udham Singh Nagar.
22.	Sh. Jagdish Chandra Singh	-	M/s Bhramari Steels Pvt. Ltd.	Village-Kisanpur, Tehsil Kichha, Distt. Udham Singh Nagar.
23.	Sh. Bhaskar Joshi	-	M/s Titan Company Ltd.	Sector-2, Plot No. 10 B&C, IIE, Sidcul, Pantnagar, Rudrapur-263154, Distt. Udham Singh Nagar.
24.	Sh. Tushar Agrawal	-	M/s BTC Industries Ltd.	Village-Kishanpur, P.O. Deoria, Tehsil-Kichha, Distt. Udham Singh Nagar
25.	Sh. Umesh Agrawal	-	M/s Ester Industries Ltd.	Pilibhit Road, Sohan Nagar, P.O.-Charubeta, Khatima, Distt. Udham Singh Nagar-262308
26.	Sh. Laxmi Dutt	-	-	S/o Sh. Ganga Dutt, Village-Harsaan, P.O. Haripura, Bazpur, Distt. Udham Singh Nagar
27.	Sh. Babu Singh	-	-	S/o Sh. Karam Singh, Village-Harsaan, P.O. Haripura, Bazpur, Distt. Udham Singh Nagar
28.	Sh. Lekhraj Jetli	-	M/s OMAXE Riviera	Nainital Road, NH-87, Rudrapur, Distt. Udham Singh Nagar