

[C.S.P.D.C.L.]

Review Petition on Capital Investment Plan Order for 3rd
MYT Control Period
(FY 2016-17 to FY 2020-21)

Submitted to

Chhattisgarh State Electricity Regulatory Commission (CSERC), Raipur

May 2016



CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED, RAIPUR

(A government of Chhattisgarh undertaking)

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BEFORE THE CHHATTISGARH STATE ELECTRICITY REGULATORY COMMISSION, RAIPUR

IN THE MATTER OF: Filing of the Review Petition on Commission's Capital Investment Plan Order for FY 2016-17 to FY 2020-21 under CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015, under Section 94 of the Electricity Act, 2003 and under Section 23 of CSERC (Conduct of Business) Regulations, 2009 along with the other guidelines and directions issued by the CSERC from time to time.

AND

IN THE MATTER OF: **CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED** (here in after referred to as "CSPDCL" or "DISCOM" or "Petitioner" which shall mean for the purpose of this petition the Licensee), having its registered office at Vidyut Sewa Bhawan, Dangania, Raipur.

The Petitioner respectfully submits as under: -

1. The Petitioner is compelled to file this review petition in view of certain concerns and grievances over the Hon'ble Commission's order on Capital Investment Plan for FY 2016-17 to FY 2020-21 dated 26th March 2016 in Petition No. 100/2015 (M);
2. The Petitioner humbly submits that the concerns and grievances raised in this Review Petition have significant financial impact on CSPDCL and therefore prays to the Hon'ble Commission to address and resolve these at the earliest;
3. The present petition has been filed on an independent basis by CSPDCL;
4. This petition has been prepared in accordance with the provisions of CSERC (Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015, under Section 94 of the Electricity Act, 2003 and under Section 23 of CSERC (Conduct of Business) Regulations, 2009 along with the other guidelines and directions issued by the CSERC from time to time;

Prayer to the Hon'ble Commission:

The Petitioner respectfully prays that the Hon'ble Commission may:

- a) Admit this Review Petition;
- b) Examine the proposal submitted by the Petitioner in the enclosed Review Petition for a favorable dispensation;
- c) Condone delay in filing the review Petition
- d) Condone any inadvertent omissions/errors/shortcomings and permit CSPDCL to add/change/modify/alter this filing and make further submissions as may be required at a future date;
- e) Pass such Order, as the Hon'ble Commission may deem fit and appropriate keeping in view the facts and circumstances of the case;

Date:

Petitioner
Executive Director (Commercial)
CSPDCL, Raipur.

1. Introduction

1.1 Background

Chhattisgarh State Power Distribution Company Limited (hereinafter called 'CSPDCL' or 'The Petitioner') is a distribution licensee for wheeling and retail supply of electricity in the areas as notified by the Government of Chhattisgarh (GoCG) under the CSEB Transfer Scheme Rules, 2010.

CSPDCL under CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 (hereinafter called 'MYT Regulations, 2015) submitted their Capital Investment Plan for approval to Chhattisgarh State Electricity Regulatory Commission (hereinafter called 'CSERC' or 'Hon'ble Commission') for the Control period FY 2016-17 to FY 2020-21 on dated 09th November 2015. Further, a supplementary Capital Investment Plan was submitted to CSERC on 15th February 2016 for additional Capital Investment for compliance of UDAY scheme.

CSERC on 26th March 2016 issued the order for Capital Investment Plan for MYT Control Period from FY 2016-17 to FY 2020-21 in the Petition No. 100/2015 (M) for CSPDCL after various deliberations.

CSPDCL had projected a total Capital Investment Plan of Rs 8260.25 Crores (including Government Funded Schemes, Partly or Fully CSPDCL Funded Schemes, Fully Funded by Consumer Contribution and Supplementary CIP for UDAY) for the MYT Control Period from FY 2016-17 to FY 2020-21, as against the same CSERC approved an amount of Rs 6073.03 Crores i.e. 73.52% of total projections.

2. Schemes for Review before the Commission

2.1 Schemes – Projected Vs. Approved

CSPDCL had projected a total Capital Investment Plan of Rs 3632.81 Crores under CSPDCL Partly or Fully Funded Schemes (including ST&SI, Loss Reduction, Fully Funded by Consumer Contribution – Obligatory, EITC, Civil and Supplementary CIP for UDAY) for the MYT Control Period from FY 2016-17 to FY 2020-21, as against the same CSERC approved an amount of Rs 1445.60 Crores i.e. 39.79% of total projections. The Table below summarizes CSLDC projections along with CSERC approval and disallowance for the said schemes:

Table 1: Partly or Fully Funded Schemes - Projected Vs. Approval (Rs Crores)

Sr. No	Name of the Scheme	Status	FY 17	FY 18	FY 19	FY 20	FY 21	Grand Total
A	CSPDCL Partly or Fully Funded Schemes	Projections	968.86	1085.85	936.52	338.24	303.34	3632.81
		Approved	472.75	374.65	278.45	161.50	158.25	1445.60
		Disallowed	496.11	711.20	658.07	176.74	145.09	2187.21

Sr. No	Name of the Scheme	Status	FY 17	FY 18	FY 19	FY 20	FY 21	Grand Total
1	Sub Transmission and System Improvement Scheme (ST&SI)	Projections	387.76	255.60	195.95	91.59	75.32	1,006.22
		Approved	240.00	110.00	70.00	45.00	35.00	500.00
2	Loss Reduction including HVDS and feeder separation Schemes	Projections	223.00	288.00	274.00	100.00	80.00	965.00
		Approved	95.00	116.00	114.00	42.00	33.00	400.00
3	ND Scheme (Obligatory)	Projections	80.00	85.00	90.00	95.00	100.00	450.00
		Approved	35.00	35.00	52.00	60.00	68.00	250.00
4	UDAY Scheme - DT Metering in other than IPDS/RAPDRP area & Installation of Smart Meters(Other Than Ag)	Projections	178.80	337.60	277.60	0.00	0.00	794.00
		Approved	50.00	50.00	0.00	0.00	0.00	100.00
5	EITC	Projections	81.85	101.45	80.10	30.60	25.60	319.60
		Approved	47.50	56.40	34.20	4.25	13.25	155.60
6	Civil	Projections	17.45	18.20	18.87	21.05	22.42	97.99
		Approved	5.25	7.25	8.25	10.25	9.00	40.00

As can be derived from the Table above, CSERC has disallowed Rs 2187.21 Crores under the said schemes and the Petitioner humbly submits that it may likely to affect the obligatory duties & performance of licensee during the entire control period of 05 FYs, i.e. from FY 2016-17 to FY 2020-21. CSPDCL had not been provided a fair opportunity of hearing in support of its Plan neither been called upon to supply the material factors during the process of scrutiny of the proposals. Further no material objections had been raised over the Capital investment plan from Public domain. In backdrop of aforesaid facts Hon'ble Commission may kindly consider to review its order dtd. 26/03/2016 (enclosed as Annexure-I) by taking into consideration material facts submitted by the licensee to justify its Plan with regard to the disallowed issues. It is pertinent to place it on record that all these facts were not placed during the consideration of petition. These facts are critical and carry significant value for CSPDCL to perform its statutory duty of Supply of Electricity.

The scheme wise details are submitted below:-

I. Sub Transmission and System Improvement Scheme (ST&SI):

The Hon'ble Commission has approved Rs 500 Crores for the MYT Control Period as against Rs 1006.22 Crores as envisaged by the Petitioner. Sub transmission and system improvement scheme focuses on strengthening the sub transmission part of distribution system, to cater to the growing demand in the distribution system and improvement in supply reliability. Any kind of up-gradation in the system and extension of sub-transmission lines come under this scheme. Addition of new substations is required to cater to the increasing demand in the state and this is also needed to ensure quality of supply together with reduction of losses.

Petitioner is casted with statutory duty to develop and maintain an efficient coordinated and economical distribution system in his area of supply to supply electricity in accordance

with the provision of contained in this Act. Accordingly, the Petitioner in its Capital Investment Plan Petition has projected 290 new sub-stations to be constructed during the MYT Control Period. The Hon'ble Commission while reducing the financial target under the said scheme has remain silent on the physical target. The detail circle/ district wise and FY wise along with tentative cost has been shown as **Annexure – II**. Disallowance to this scheme may affect the plans to build new 33/11 KV sub-stations which forms back bone of effective supply system. Further, under IPDS and DDUGJY the petitioner would be adding sub-stations in different areas and the details of the same is provided in **Annexure -III & Annexure-IV**.

The existing total installed capacity of 33/11 kV substation as on 31st march 2015 is around 5500 MVA. The number of LT consumers in the last 5 FYs has grown by 5.39% whereas connected load in MW has increased by 9.15% on CAGR basis. With a load growth of 9.15% each FY, total MVA capacity is estimated to reach 8520 MVA by the end of FY 2020-21. i.e. 1160 MVA under New Sub-stations, 742 MVA under Additional Xmers and 409 MVA under Capacity Augmentation as shown below:

Table 2: Addition of Capacity (MVA) during the MYT Control Period

With load growth of 9.15% per year the required capacity of 33/11 KV S/S will be as follows		
Year	Projected capacity of S/S	
2016-17	6003	
2017-18	6552	
2018-19	7152	
2019-20	7806	
2020-21	8520	
New Work Proposed under ST&SI Scheme		
	Nos	Capacity in MVA
New S/S	290	1160
Addnl Xmers	182	742
Cap Augmentation	221	409
TOTAL		2311

The remaining demand of 709 MVA may be met through New S/S will also be constructed under other schemes like IPDS/DDUGJY/ND (Contributory proposals under respective schemes is detailed under respective schemes). Taking the aforesaid details into consideration, Hon'ble Commission is requested to approve Rs 1006.22 Crores against the earlier approval of Rs 500 Crores for the MYT Control Period.

II. Loss Reduction including HVDS and feeder separation Schemes

The Hon'ble Commission has approved Rs 400 Crores for the MYT Control Period as against Rs 965 Crores as envisaged by the Petitioner. Loss Reduction related schemes target reduction in the overall technical & commercial losses (T&C losses) in the distribution system. T&C losses can be broken up in two categories:

- Technical loss and
- Commercial loss

While technical loss is the inherent loss that is caused due to power dissipation while wheeling power to the consumer location; commercial loss occurs due to reasons external to the power systems, i.e. these are non-technical in nature. Key reasons leading to commercial loss includes theft of power, error in meter reading and billing, and non-payment of bills. MYT Regulations, 2015 Clause 71.3 has set a trajectory of energy loss for 33 KV and below system for State utility for each year of the control period as under.

Table 3: Trajectory for Distribution Loss

Sr. No	Financial Year	Percentage
1	FY 17	22.0%
2	FY 18	21.0%
3	FY 19	20.0%
4	FY 20	19.0%
5	FY 21	18.0%

In order to follow the trajectory as given above ,CSPDCL has planned to execute following T&D and AT&C Loss reduction schemes & measures to be implemented in the State as under:-

- Implementation of IPDS & DDUGJY, newly launched schemes of GoI;
- Feeder separation in rural area for pump load with HVDS with the assistance form REC/other financial institutions;
- STN Scheme towards Sub-Transmission net-works system strengthening works with the financial assistance form REC/other financial institutions;
- AB cable laying works in place of bare conductor in theft prone area with assistance from REC/other financial institutions;
- Completion of balance work under ongoing R-APDRP Part-B scheme;
- Completion of balance work of ongoing HVDS schemes;
- Installation of AMR in consumer meter & feeder meters with CMRI facilities;
- Efficient meter reading & billing adoption with spot billing and IT implementation through use of SAP (ERP) modules;
- Bill collection through ATP, internet banking SBI ATM Card, Suvidha center in addition to department cash collection counter;
- Energy theft & malpractice are controlled with the help of vigilance & (O&M) checking teams;
- Meters are shifted from inside premises to outside premises toward control on theft & malpractice;
- Effective disconnections are being implemented to all category of consumer in whole year by special drive;
- Revamp of LT distribution system;
- Replacement of conductors;

HVDS system is an effective way of improving quality of power supply and for reducing losses. Setting up of HVDS system involves extending the 11 KV lines to as close to the load center as possible and erect small transformers with no or least LT lines. Further, even if LT lines are used these are insulated, thus making it impossible for unauthorized hooking of loads.

CSPDCL being a distribution licensee carry a universal obligation to supply electricity and subsequently casted with statutory duty to develop and maintain an efficient coordinated and economical distribution system in its area of supply as it is specified under Part VI of Electricity Act 2003. The power demand in the State is increasing and quality of supply is a burning issue and all these compels utility to update its sub-transmission & distribution system. Disallowance of plan may adversely affect the future prospects and likely to cause inconvenience to consumers.

Past performance under these schemes may not be considered as a yardstick to decide the future plans as it is a fact that even after several constraints, centrally financed scheme specifying conversion of grant into loan had been efficiently accomplished. Line loss target is placed as controllable factor under MYT Regulation and any benefit towards financial gains on account of overachievement is a pass through to consumer. Disallowance of works under this head may deprive from such benefits as CSPDCL has to endeavor to achieve the targets of line loss under UDAY scheme.

The Hon'ble Commission is requested to approve Rs 965.00 Crores as against an earlier approval of Rs 400 Crores for the MYT Control Period.

III. ND Scheme (Obligatory)

The Hon'ble Commission has approved Rs 250 Crores for the MYT Control Period as against Rs 450 Crores as envisaged by the Petitioner. The Normal development scheme predominantly covers the work required to build and maintain distribution system comprising of 11 KV line, Installation of New Distribution X'mer & interlinking of LT / HT lines for power supply to existing consumers. Expenditure towards purchase of energy meters for supply to prospective consumers is also met through this scheme. It is evident that Hon'ble Commission is pleased to waive off the statutory provision of hiring meters from Domestic consumers, thereby depriving of revenue under this head. The scheme also encompasses some quality improvement initiatives such as distribution system strengthening, installation of distribution transformers and capacitors to provide quality, security and availability of power supply to the consumers.

As per supply code clause 4.2, a licensee shall bear the cost for strengthening / up gradation of the system for quality supply to the existing consumers which shall be recovered from the consumers through tariff. In FY 2016-17 itself, the licensee has projected a cost of around Rs 35 Crores for installing new meters as below:

Table 4: Estimated cost of Meters to be installed against NSC under ND(O) Scheme for FY 2016-17

Estimated cost of Meters to be installed against NSC under ND(O) Scheme											
SN	Name of Circle	Target Proposed for 2016-17									
		Connection									
		Single Phase			Three Phase			HT			Total Amount
Nos	Rate	Amount	Nos	Rate	Amount	Nos	Rate	Amount			
1	City Circle Raipur-I	8500			5000			20			
2	City Circle Raipur-II	4500			1500			20			
3	O&M Circle Raipur	25000			1600			20			
4	O&M Circle Mahasamund	15000			250			12			
5	O&M Circle Durg	16000			1100			20			
6	City Circle Durg	8000			3000			18			
7	O&M Circle Rajnandgaon	17000			1000			20			
8	O&M Circle Jagdalpur	6000			250			8			
9	O&M Circle Kanker	10000			250			2			
10	City Circle Bilaspur	6000			1700			8			
11	O&M Circle Bilaspur	31500			2500			8			
12	O&M Circle Janjgir-Champa	30000			1100			10			
13	O&M Circle Korba	5000			700			8			
14	O&M Circle Raigarh	21500			2000			16			
15	O&M Circle Ambikapur	31000			1050			10			
	Irrigation Pump	0			21000			0			
	TOTAL	235000	975	229125000	44000	2326	102344000	200	90000	18000000	349469000

The tentative cost of meters are as follows:

Table 5: Meter Rate

Particulars	Unit	Rate
SINGLE PHASE, 230 Volts ENERGY METERS :-		
Static 5.0-30 Amps Pilfer proof with transparent poly carbonate meter box.	Each	975.00
POLY PHASE STATIC ENERGY METERS :-		
Three Phase, 10-60 Amps. with poly carbonate Meter Box	Each	2326.00
Three Phase, 20-100 Amps. with Meter Box with data storage.	Each	2618.00
CT operated electronic static meters 100/5 Amp. With data storage.	Each	2487.00
CT operated electronic static meters with DLMS.	Each	3274.00
CT operated electronic static meters with AMR (Composite Unit).	Each	11297.00

Particulars	Unit	Rate
H.T. STATIC TRIVECTOR METERS :-		
3 Ø 4 Wire 0.5S with DLMS Protocol category A	Each	3970.00
3 Ø 4 Wire 0.5S with DLMS Protocol category B	Each	4030.00
3 Ø 4 Wire 0.2S Non DLMS	Each	16362.00
3 Ø 3 Wire 0.2S Non DLMS	Each	16362.00
3 Ø 4 Wire 0.5S Non DLMS	Each	4030.00
3 Ø 4 Wire 0.5S MWH Meter /5 Amp., non DLMS Protocol.	Each	3700.00
Test terminal Box (TTB)	Each	835.00
CMRI (Common Meter Reading Instrument)	Each	35855.00
Spot Billing Machine (NEW ITEM)	Each	0.00
H.T. SUMMATION METER FOR :-		
3 Ø 4 Wire 0.2S accuracy class CT operated meter (for 132 kv)	Each	1039058.00
Universal Meter Box for HT meters.	Each	2528.00
Meter Box (GI Plain Sheet) for 3 Phase LT CT operated meter	Each	2437.00
Pilfer proof SMC/FRPP/PPO LTCT meter box	Each	3317.40
11 kv OIL IMMERSSED 3 PHASE CT-PT UNITS :-		
7.5/5 A	Each	37001.00
10/5 A	Each	34527.00
15/5 A	Each	33229.00
25/5 A	Each	33229.00
50/5 A	Each	31930.00
75/5 A	Each	31930.00
300-150/5 A	Each	32852.00
200-100/5 A	Each	32478.00
400-200/5 A	Each	32852.00
100/5 A	Each	
33 kv OIL IMMERSSED 3 PHASE CT-PT UNITS :-		
5/5 A	Each	88955.00
10/5 A	Each	66527.00
20/5 A	Each	66527.00
30/5 A	Each	66527.00
50/5 A	Each	66527.00
100 /5A	Each	66527.00
200/5A	Each	66527.00
200-100/5 A	Each	57816.00
300-150/5 A	Each	57816.00
400-200/5 A	Each	70406.00
Meter box for trivector meter	Each	2728.00

The proposed expenditure under ND (Obligatory) Scheme is necessary to:-

- i. Achieve Status of less than 2.5% Stop Defective Meters stipulated by Hon'ble Commission.
- ii. Release of New connections expected in the control period towards Obligatory part.
- iii. Bear cost of strengthening/ up gradation of the system up to 11 kv/LT level for quality supply to existing consumers in accordance with Supply Code 4.2.
- iv. Meet out the cost towards System augmentation in case of existing domestic/ non domestic connections.

- v. To meet expenditure towards extension and up gradation of distribution system required to supply on obligatory part prescribed by Commission under Miscellaneous Charges as per Supply Code 4.3, 4.52 & 4.56.

Disallowance of cost under this scheme may likely to affect the efficiency of obligatory services or diversion of funds from other sources. Considering the facts explained above, Hon'ble Commission may kindly consider to approve Rs 450.00 Crores as against an earlier approval of Rs 250 Crores for the MYT Control Period.

IV. UDAY Scheme - DT Metering in other than IPDS/RAPDRP area & Installation of Smart Meters (Other Than Ag)

The Hon'ble Commission has approved Rs 100 Crores for the MYT Control Period as against Rs 794 Crores as envisaged by the Petitioner. The Ujjawal Discom Assurance Yojana (UDAY) scheme was launched by the Union government on November 20, 2015 vide notification no 06/02/2015-NEF/FRP to enable electricity distribution utilities across India to break out of a longstanding debt of almost Rs 4.3 Lakh Crores. The State of Chhattisgarh, CSPDCL and the Centre (MoP) signed a tripartite MoU on 25th January 2016 for operational and financial turnaround of the utility.

The signing of the MoU will have significant benefits to CSPDCL, with the state government taking over 75% of the outstanding debt of the company as on September 30, 2015 and the balance debt repriced or issued as state guaranteed Discom's bond at coupon rates about 3% less than the average existing interest rate. Chhattisgarh State Government shall take over 75% of CSPDCL debt as on 30 September 2015 over two years - 50% shall be taken over in FY 16 and 25% in FY 17. The Government of India will not include the debt taken over by the Chhattisgarh Government as per the above scheme in the calculation of fiscal deficit of Chhattisgarh in the FY 16 and FY17.

Chhattisgarh Government will issue non-SLR including SDL bonds in the market or directly to the respective banks / Financial Institutions (FIs) holding CSPDCL debt to the appropriate extent.

Further, CSPDCL debt not taken over by the State Government shall be converted by the Banks / FIs into loans or bonds with interest rate not more than the bank's base rate plus 0.1%. Alternately, this debt may be fully or partly issued by CSPDCL as State Government guaranteed CSPDCL bonds at the prevailing market rates which shall be equal to or less than bank base rate plus 0.1%.

Chhattisgarh State Government shall take over the future losses of CSPDCL in a graded manner and shall fund them as follows:

Table 6: Future Losses to be taken over by Chhattisgarh State Government

Sr. No	Particulars	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
1	Previous Year's DISCOM loss to be taken over by State	0% of the loss of FY 15	0% of the loss of FY 16	5% of the loss of FY 17	10% of the loss of FY 18	25% of the loss of FY 19	50% of the previous year loss

Under the UDAY Scheme, CSPDCL would be entitled for additional / priority funding through Deendayal Upadhyay Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), Power Sector Development Fund (PSDF) or other such schemes of Ministry of Power and Ministry of New and Renewable Energy. Further, it would also be supported with additional coal at notified prices and, in case of availability through higher capacity utilization, low cost power from NTPC and other Central Public Sector Undertakings (CPSUs).

As per the MoU, CSPDCL will bring about operational efficiency through several measures including upgradation of transformers, meters, smart metering of high-end consumers and reduction in transmission losses and increased power supplies in areas. Demand side interventions such as usage of energy-efficient LED bulbs, fans, air-conditioners and efficient industrial equipment though will help in reducing energy consumption. As per the agreement, CSPDCL needs to bring its AT&C losses to 15% in FY 2018-19 from present 22.50% in FY 2014-15.

In the Supplementary Capital Investment Plan prepared for the control period FY 17 to FY 21, CSPDCL has chalked out a detailed investment schedule to be carried out under the UDAY Scheme. To achieve operational targets which has been set to achieve under UDAY scheme, the Petitioner had identified two different schemes to carry out the overall investment in the distribution segment of the power sector during the control period as below:

- **DT Metering in other than IPDS/RAPDRP area**

It would be a Compulsory Distribution Transformer Metering scheme to be taken by CSPDCL. It would help to track losses at DT level for taking corrective action & to achieve targets of loss reduction. The said scheme is to be completed by 30th June 2018. The physical target under DT metering in other than IPDS/RAPDRP area has been envisaged at 65870 Nos i.e. 26348 Nos. in FY 17 and 39522 Nos. in FY 18 respectively. The total expenditure envisaged during the control period is around Rs 100 Crores with a debt equity ratio of 80: 20.

- **Installation of Smart Meters (Other Than Agriculture)**

As per National Tariff Policy, 2016 Clause 8.4. (3):

The Appropriate Commission may provide incentives to encourage metering and billing based on metered tariffs, particularly for consumer categories that are presently unmetered to a large extent. The metered tariffs and the incentives should be given wide publicity. Smart meters have the advantages of remote metering and billing, implementation of peak and off-peak tariff and demand side management through demand response. These would become essential in future for load-generation balancing due to increasing penetration of intermittent type of generation like wind and solar power.

Appropriate Commission shall, therefore, mandate smart meters for:

(a) Consumers with monthly consumption of 500 units and more at the earliest but not later than 31.12.2017;

(b) Consumers with monthly consumption above 200 units by 31.12.2019.

Further, two way smart meters shall be provided to all prosumers, who also sell back electricity to the grid as and when they require.

In order to enable energy audit in the distribution system, all distribution companies shall ensure smart meters in their electricity system throughout the chain from transformers at 132kV level right down to distribution transformer level at 11kV and further down to each consumer. Further, in order to reduce theft of power, the distribution companies should have enabling feature like distribution SCADA with distribution management system and energy audit functions. SERCs shall mandate these to be in place within two years.

The said scheme is for all consumers consuming above 200 units per month. CSPDCL has 880572 No's of consumers having average consumption of above 200 units per month excluding AG pumps. As per MOU, the work of installation of Smart meters is to be completed by 31st December 2019 i.e. (above 500 units/month-31st December 2017 and balance by 31st December 2019). Installation of smart meters will be tamper proof and will allow remote meter reading thus helping reduce theft, implementation of DSM activities and consumer engagement. The physical target for installation of Smart Meters (other than Agriculture) has been envisaged at 880572 Nos i.e. 175000 Nos. in FY 17, 350000 Nos. in FY 18 and 355572 Nos. in FY 19 respectively. The total expenditure envisaged during the control period is around Rs 694 Crores with a debt equity ratio of 80: 20.

The Hon'ble Commission while approving Rs 100 Crores under the scheme has stated that

"It is observed that in the above scheme, CSPDCL has stress made on providing smart meters on consumer premises keeping in view its inherent property for controlling various parameters. For the detailed specifications CEA is the nodal agency for the meters. As on date were not aware much about such meters. Therefore for time being Commission provisionally approves an investment of Rs 50 Crores for the FY 17 and Rs 50 Crores for FY 18 for the execution subject to review after two years".

As can be verified from the agreement signed between the tripartite MoU signed on 25th January 2016 between the State of Chhattisgarh, CSPDCL and the Centre (MoP) for operational and financial turnaround of the utility, the targets needs to be achieved by FY 2018-19 to achieve the benefits of UDAY scheme. By disallowing the cost on account of non-awareness of smart meters to CSPDCL and to review the same after two years i.e. during the mid-term review, it would not be feasible for CSPDCL to achieve the targets under the UDAY scheme.

In case, CSPDCL does not meets the operational milestones, it would be liable to forfeit its claim on IPDS and DDUGJY grants along with chance of low cost power from NTPC and CPSUs and other benefits.

The cost for DT Metering in other than IPDS/RAPDRP areas is around 100.0 Cr. Hon'ble Commission has approved only 100 Cr. towards DT Metering and installation of Smart Meters. In this light it may kindly be considered to install smart meters to the consumer installation having average consumption above 500 units. Expenditure required to meet this work is Rs. 226.05 Cr. The target date of accomplish the task is set as 31/12/2017. Accordingly, Hon'ble Commission may kindly consider expenditure of Rs. 326.05 Cr. towards DT Metering PLUS Smart metering for consumer having average consumption of above 500 units for its proper implementation and further amount under the Scheme can be approved upon Review of Performance after one year. This may Upkeep CSPDCL to achieve benefits under UDAY scheme.

V. EITC:

The Hon'ble Commission has approved Rs 155.60 Crores for the MYT Control Period as against Rs 319.60 Crores as envisaged by the Petitioner which would hamper the IT projects benefit in the long run for the consumers of CSPDCL. The key modules are briefly outlined below.

- ✓ **SAP Project:** Various functional up gradations have been done by SAP LABS to ensure the better productivity, ease in supervising, material management, customer relationship management, etc. This is to ensure smooth transition of work in the inter-domain functionalities. The functional up gradation further requires investment in upgrading enterprises resource planning (ERP) software and also needs investment in compatible hardware components like server, advanced IEEE protocols enabled communication devices etc. to match the technical up gradation. Some key benefits under the said module would be as follows:
 - Database growth is high in billing system, which reduces the performance of the servers. For this archiving and purging of data is required- This solution considerably reduces the cost on additional servers, SAN, etc. for constant performance. It improves the performance and avoids repeated up gradation of the servers and storages even when the data is increasing day by day considerably.
 - E-bidding has been implemented using SAP -SRM module. DRC for SRM has not been implemented, which is essential in case of some disaster in Data Centre - In case of disaster in DC, no tenders can be processed through SRM, which in turn shall effect our business;
 - Through BIW servers, Data extraction of only 22 towns under RAPDRP project is being done as per provision of DPR to get MIS reports. For obtaining MIS reports of entire Discom - by upgrading BIW servers, the poor performance is envisaged. Moreover, it involves additional cost in its up gradation. To get MIS reports of entire Discom promptly, SAP HANA a new technology is proposed to be implemented - The proposed work is to get MIS reports expeditiously. It will improve performance of Discom and save the time in this behalf. However, cost Benefit cannot be worked out in terms of money.

- At the time of officers on tour/ Casual leave or on field at work, where the system is not available, employees are unable to work. By Mobility solution, the officers can work on mobile on so many SAP applications like billing, customer care, maintenance management etc. In this situation the day to day works will not suffer and handing over of ID with roles will not be required - This will improve in real time working and in field performance by reducing the time lag of entering data in SAP;
- Under RAPDRP, SAP Enterprise Licenses for 20 Towns are available, with license validity period up to 28th Feb 2019. SAP Licenses will have to be procured for future growth from March'19 - For day to day working SAP licenses are compulsory to be procured since entire working is being done on SAP-ERP. Also it is legal obligation to have sufficient licenses for users, consumers and employees;
- Validity of SAP Enterprise Licenses for non - RAPDRP area is up to 30th June 2020. From July2020, SAP Licenses will have to be procured to meet our future growth - For smooth day to day working SAP licenses are compulsory to be procured since entire working is being done on SAP-ERP. Also it is legal obligation to have sufficient licenses for users, consumers and employees;
- To keep our system in line with the developments made by SAP for improved performance and functionalities, technical up gradation of SAP in CS Power Companies is essentially required - Direct cost benefit on account of Tech Up gradation cannot be worked out. However, by getting more functionalities in SAP, the Power Companies will definitely be benefitted of the upcoming functionalities;
- For ensuring electronic payment of EMD, Tender fee, etc. against tendering, Payment Gateway Implementation is required for e-Bidding module of SAP - It will save our efforts to ensure and reconcile the payments made by the bidders through e-bidding. Also it will facilitate bidders and save their cost on sending documents or personally visiting CSPDCL offices which in turn will affect the item wise cost offered;
- Presently there is no space available in the SAN Storage to accommodate increased huge data due to growth in consumer base in LT/HT Billing. Also more space will have to be provided for installation of more AMRs and adding more areas in electrical infrastructure, viz HT/LT lines and S/S. Looking to the present and upcoming growth, it is necessary to increase SAN Storage capacity right from this year.
- It has been agreed by Hon'ble commission that SAP HANA gives better performance. As the MIS reports of entire CSPDCL are mandatorily which are not possible through the prevailing BIW system as it was designed for only 20 towns under RAPDRP project. Hence a new technology "SAP HANA" was proposed to be implemented to get MIS reports expeditiously. It will improve performance of Discom based on the action taken by the management after getting useful information through MIS Reports and save the time in this behalf. Also, regulatory and government compliance will be fulfilled in better way. However, Cost-Benefit in such type of projects cannot be quantified in terms of money but based on the useful MIS reports it will be beneficial for CSPDCL in long term.

- Use of Mobility Solutions is increasing day by day in various organizations due to Technology Advancement so that the employees of the organization can perform official work on their mobile from anywhere other than office resulting improved efficiency of the company also. Sooner or later, it have to be implemented in CSPDCL for the implemented SAP applications like Billing, HR, Customer Care, Maintenance Management, Materials Management etc. This will improve in real time working and in field performance by reducing the time lag of entering data in SAP.

✓ **IT Networking:**

Some key benefits under the said module would be as follows:

- *System Strengthening of IT Infrastructure is required for Network expansion in new offices, FOC etc. to facilitate consumers. Technology up gradation & Technical refresh of Network devices & IT security systems is required to circumvent new & upcoming threats. Wireless WAN connectivity in far-flung areas and as a back-up in town areas is required - It is required to ensure availability of suitable IT Infrastructure in all the offices, Zones, FOCs etc. for smooth functioning of our business of all Power Companies. Time-to-time technology upgrade, system strengthening etc. are required to keep our systems safe/secure and at-par / interoperable with other systems;*
- *Application & Systems Software including Licenses are required for smooth functioning of IT Infrastructure. It includes OS, database, e-mail, Network/Enterprise Management Software (NMS/EMS), Security & Security Monitoring software (AV, PM, VA, PT), etc. Adequate number of Licenses are required for Software Assurance & from Compliance perspective - It is required to ensure availability of appropriate Application & System Software in our environment. Time-to-time Software version upgrade, Software patching etc. are required to keep our systems safe/secure and at-par / interoperable with other systems. Use of unauthorized, illegal or pirated software is a compliance issues and attracts legal consequences;*
- *DR IT Infrastructure set-up is required to ensure business continuity in case of any untoward incidence in Data Centre. DR for applications covered under R-APDRP scheme for 20 towns is available. It needs to be made available for non-RAPDRP applications of Discom and all applications of other power companies. It is spill-over work and has already been approved by Hon'ble CSERC during current control period - It will ensure safe replication / availability of data in case of any untoward incidence in Data Centre;*
- *To have faster & better data communication facilities in Raipur and Durg-Bhilai, as distribution SCADA being rolled-out in these towns in which online real-time data is required for system operation. It will connect all CSPDCL offices including Zones, FOC etc. with Data Centre through OFC - It is the technology that ensures faster & more reliable data communication, more system uptime, higher bandwidth and less latency time;*
- *It is a Ministry of Communications mandate to migrate IT Infrastructure from IPv4 to IPv6 due to limited availability of IPv4 addressees. It is spill-over work and has already been approved by Hon'ble CSERC during current control period - IPv4 addresses are limited. As such, in future IPv4 addresses shall not*

be available. Thus publishing more systems on internet shall not be possible. In view of Govt. mandate & growing need, this work needs to be carried out;

✓ **Data Acquisition from all 33/11 KV substations to monitor interruption and study Load Forecast:**

This Project is a GOI initiative and is taken-up as “Reliable Tele-Communication System). The objective is to provide a reliable telecommunication system along with Data Acquisition System from all the feeders of 33/11 kV Substations across the country which shall be accessible through “National Power Portal”. (Details in Annexure-I attached).

This scheme has been sanctioned in principal by Central Electricity Authority & Ministry of Power, Delhi. Implementation / execution guidelines are expected to be issued after which work shall start.

- *There are 1005 no. existing 33/11 KV substations. Apart from these, total 350 no. new 33/11KV substations are proposed under IPDS (32nos.), DDUGJY (78 nos.), STN and other schemes (240 nos.). There is a requirement of 11 KV Feeder wise AT&C loss calculation; interruption monitoring and load forecast study. To meet out this requirement, it is proposed to have reliable network connectivity at these substations to enable required data flow from s/s to Data Centre.*
- *This involves expenditure on installation of routers, switches, UPS, DCU, VOIP phone and miscellaneous other equipment at all the sites.*
- *At Data Centre Core network equipment, servers, software (OS, DB, antivirus, etc.) DAS solution, etc. - apart from implementation charges, shall be required.*
- *This will help in reduction of line losses in the entire area (after identifying the loss pockets), monitoring of interruption and load forecast study for effective work planning.*
- *The work is planned to be executed in phased manner.*

✓ **Other IT Project:**

Some key benefits under the said module would be as follows:

- *Under IPDS all the statutory towns are covered. The IT infra work including ERP will be implemented against this scheme to smoothen functioning of town/facilitate consumers with IT activities. It is a Central Govt. funding (loan convertible into grant by 60% of the DPR cost) scheme;*
- *It will help to extend facilities developed under RAPDRP scheme in the towns covered under this scheme;*

IT initiative and system strengthening works including physical security, surveillance, etc.

- (1) *Being strategic locations, it is proposed to establish Electronic Surveillance System at the campus of CS Power Companies at Danganiya Raipur with estimated cost of Rs. 50 Lacs. The project includes:*
- (i) *installation of Metal Detectors at Vidyut Sewa Bhavan and Load Dispatch center*
 - (ii) *installation of Surveillance cameras at the campus of CS Power Companies, inside Vidyut Sewa Bhavan, Load Dispatch Center, Network Center and Customer Care Center.*
 - (iii) *installation of Access Control at Main gate, Visitor Management System etc.*
- (2) **Cash Collection Module** :- *CSPDCL has started following Electricity bill payment mode to avoid the standing in the long queues to pay bills as well as save their time.*
- a. *Net Banking, Credit/Debit Cards,*
 - b. *RTGS/NEFT*
 - c. *ATP machines*
 - d. *More than 1624 cash collection centre through Common service centre on Pre-paid mode.*
 - e. *More than 836 cash collection centre through franchises of M/s Pay point on Pre-paid mode.*

Previously, it was planned to host the above software on the Desktop computer and after successful implementation, all these payment software will be hosted on server. As per plan, above payment software was hosted on Desktop computer and presently more than 10.27 lacs customer paid their electricity bill per month through above payment mode and these number is increasing day by day. To improve the reliability and response time of the payment software, it is necessary to host the software on dedicated server with backup facility.

- (3) **Spot Billing** :- *Presently spot Billing software is hosted on Desktop Computer and approximate 10.5 lacs consumer bill is generated every month through Spot Billing and these number is increasing day by day. To improve the reliability and response time of the Spot Billing software, it is necessary to host the software on dedicated server with back facility.*
- (4) **Mobile App** :- *Presently following consumer related information is available in CSPDCL website www.cspdcl.co.in*
- *Consumer registration*
 - *View electricity bill*
 - *Print electricity bill*

- *view meter reading and billing information*
- *Electricity bill payment through internet/Debit/Credit card.*
- *View electricity bill payment history*
- *Registration for bill payment through RTGS/NEFT payment*
- *On line New service connection with tracking facility*
- *Technical complaint (Supply off etc.) registration*
- *Commercial complaint (Meter reading, Billing, collection related etc) registration.*
- *Planned outage information*

CSPDCL plan to have an app on Android/iOS platform linking live data of State Load Despatch Centre and also start following applications on mobile Apps for better consumer facilitation :-

- *Electricity bill payment through internet, Debit/Credit Card.*
- *Meter Reading, Billing, Payment information*
- *Intimation of Meter reading for billing with snap shot.*
- *Technical complaint registration.*
- *Commercial complaint registration.*
- *Status of on line new service connection.*
- *Online payment receipt*
- *Outage information*
- *Power related information in the state.*

Rs. 1.5 Cr will required for the item nos. (2), (3) and (4) listed above.

- (5) **ABMS in DC * DR** :- *Integrated Building Management System (IBMS) is required for ensuring security and monitoring of cooling, power, loss due to rodent & water leakage in DC & DR. Order has been placed for Rs. 1.61 Cr.*

In view of above, Hon'ble Commission is requested to kindly consider and allow investment of Rs. 3.61 Crores for necessary system, servers and software for the above.

(c) Other IT Project & Miscellaneous

Hon'ble Commission has approved 6 Cr. against proposed 12.7 Cr. for Old Spillover works of "Other IT Projects and Miscellaneous". Component wise details for these works are as under :-

SN	Item	Amount	Approved in CIP for FY
1	EITC Building	5 Cr.	FY 2013-14 to FY 2015-16
2	System software & S/w Development	3 Cr	FY 2013-14 to FY 2015-16
3	PC, Printers and Scanners	6 Cr	FY 2013-14 to 2015-16
	Total	14 Cr.	

Reasons for non-utilization of Approved Investments:-

(1) Works of EITC building could not be started due to delay in financial of its location and getting necessary approval from Fire & Safety Deptt of Nagar Nigam, Raipur for selected location. Now approval has been obtained from Fire & Safety Deptt of Nagar Nigam Raipur for the selected location of EITC building. The case file has been sent to Hon'ble Chairman, CS Power Companies for approval. After getting the approval construction of EITC building will start in 2016-17 and complete in FY 2018--19.

(2) EITC's in-house developers were dedicatedly involved in the development and implementation of software of R-APDRP Scheme in CSPDCL through ITIA M/s R-Infra. Therefore the proposed work could not be taken up. Now the work of R-APDRP is complete and EITC personnel are available for development work. Therefore this work will be taken up in FY 2016-17.

(3)The amount of 6 Cr sanctioned by Hon'ble Commission for the FY 2013-14 to FY 2015-16 for PC, Printers and Scanners could not be utilized. This amount will be needed in the coming years as some of the functionalities already implemented are to be rolled out in next two years.

Therefore, the proposal for provision of 14 Cr for Old Spillover Works of "Other IT Projects & Miscellaneous" may please be considered instead of Rs. 6 Cr. approved by Hon'ble Commission. Rs. 5 Cr. may be sanctioned for the year 2016-17, Rs. 6 Cr for the year 2017-18 and Rs. 3 Cr. for the year 2018-19.

The aforementioned works are critical to achieve performance Standards and Consumer satisfaction. As such CSPDCL fully intense to Plan and implement the above works within stipulated time. Considering the aforesaid facts, Hon'ble Commission is requested to approve Rs. 319.60 Crores as against an earlier approval of Rs. 155.60 Crores for the MYT Control Period.

VI. Civil Construction:

The Hon'ble Commission has approved Rs 40.00 Crores for the MYT Control Period as against Rs 97.99 Crores as envisaged by the Petitioner. CSPDCL plans investment in civil construction to cater to the growing requirements of the entire distribution business at different levels viz. across Circles, Divisions, Sub-divisions and Distribution Centers. This also includes the work related to R-APDRP, FOC Centers and Centralized Consumer Recreation Centers etc.

The works to be undertaken are briefly outlined as mentioned below:-

- *Construction of zone office building (New / Renovation old building) for fulfillment of requirement for installation of equipment for R-APDRP Scheme and providing accommodation to supervisory staff.*
- *Construction of SCADA building for installation of equipment's for R-APDRP Scheme and arranging accommodation for operating staff.*
- *Residential quarters for providing facilities to employees of CSPDCL at remote places to improve their working efficiency.*
- *Construction of Lineman Training Centre for providing Training to Line mans.*
- *Construction of Executive Hostel to provide accommodation to officers, who are required to come to the Head Quarters for obtaining training.*
- *Construction of Central Training Institute for providing training facilities to officers & employees.*
- *Construction of Distribution Centre building and arranging accommodation for the staff.*
- *Construction of Control Room building etc. 33/11 KV Substation to accommodate panels as per requirement.*
- *Construction of Administrative Office building for EDs/CEs for Raipur & Durg.*
- *Construction of SEs/EEs/AEs building for providing accommodation to officer as per prevailing requirement.*
- *Construction of Cement Concrete road, Culverts and Drains up to the control room and buildings.*
- *Construction of Welfare Centre building to provide facility to employee and their families.*
- *Construction of Customers Care Centre to provide facility to customers, which will ultimately help in bill collection.*
- *Construction of Hospital building to provide facilities to employees and their families.*
- *Construction of Area Stores shed, Area fencing / boundary wall for protection of valuable building properties, transformers, conductors, etc.*

Past performance under this schemes may not be considered as a yardstick to decide the future plans. The aforementioned works are critical to achieve performance Standards and Consumer satisfaction. As such CSPDCL fully intense to Plan and implement the above works within stipulated time. The Hon'ble Commission is requested to approve Rs 97.99 Crores as against an earlier approval of Rs 40.00 Crores for the MYT Control Period.

3. Grounds for Review:

I. APTEL Judgment in Appeal No 84 of 2006 – KPTCL Vs. KERC

The Petitioner would like to draw the kind attention of the Hon'ble Commission to the fact that a licensee has authority to decide its plans of investment or improvement of system or expansion to meet demand of power within their area including upgradation and maintenance for a better supply in consultation with the stakeholders. The same can be verified from the precedence set in by APTEL in Appeal No. 84 of 2006 in the matter of Karnataka Power Transmission Corporation Ltd. Vs. Karnataka Electricity Regulatory

Commission & others, which is similar to the case in hand. Relevant part of the judgement is reproduced below:

“Legislative has left it to the utilities to decide their plans of investment or improvement of system or expansion to meet demand of power within their area including upgradation and maintenance for a better and quality generation, transmission or supply as the case may be – KERC not acted reasonably or fairly by interfering with the internal, commercial management and domain of the transmission utility with respect to its commercial plan”.

Hon’ble Commission kindly consider the principles of law pronounced on this matter as a ground for review.

II. Scheme-wise technical justification for extension & upgradation of distribution system stated under Para 2.0, which were not placed before Commission for consideration of Capital Investment Plan during 3rd MYT control period.

The Petitioner would like to draw the kind attention of the Hon’ble Commission to the fact that a licensee has authority to decide its plans of investment or improvement of system or expansion to meet demand of power within their area including upgradation and maintenance for a better supply in consultation with the stakeholders. Hon’ble Commission may kindly consider the reasons for disallowance in light of the legal precedence set by Learned Tribunal in Appeal No. 84 of 2006.

III. Enabling provision for instant filing :

i) 94. Powers of the Appropriate Commission

- 1) *The Appropriate Commission shall, for the purposes of any inquiry or proceedings under this Act, have the same powers as are vested in a civil court under the Code of Civil Procedure, 1908 in respect of the following matters, namely:*

.....

- (f) *Reviewing its decisions, directions and orders;*

IV. Section 23 of CSERC (Conduct of Business) Regulations, 2009

23. Review of decisions, directions and orders

- 1) *The Commission may on its own or on the application of any of the persons or parties concerned, review its decisions, directions or orders and pass such appropriate orders as it thinks fit. Provided that the Commission may review its decision or order on its own motion only for the purpose of correction of any clerical or arithmetical mistakes or error arising out of any accidental slip or omission.*

- 2) *An application for review shall be filed within a period of 30 days from the date of decision / order or direction or the date of communication of such decision / order or direction which is sought to be reviewed, and it shall be filed in the same manner as a petition.*
 - 3) *A review application can be filed only on the grounds mentioned in Order 47, Rule 1 of the Code of Civil Procedure, 1908.*
- V. Under clause 27.0 of CSERC (Fees & Charges) Regulations 2009, a fee of Rs. 10000/- (In words, Rupees Ten thousand only) is required for review petition. Accordingly, requisite fee is enclosed in form of Cheque No. 034505 dtd. 06/05/2016 along with the application.

Executive Director (Commercial)
CSPDCL : Raipur

Annexure 1: ST&SI Scheme New Sub Station Details for MYT Control Period

Circle wise & District Wise STN proposals for MYT Control Period												
S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
1	Raipur(O&M)	Raipur	2016-17	5	Gotiya para (Raipur central) 5, Fafadih (Raipur Central) 5, Urla 5, Chandra khuri 3.15, Bartori (CSIDC) 3x 5	3	Datrenga 3.15, Nara 3.15, Teka 3.15	6	Khorpa 1.6-3.15, Datrenga 3.15-5, Bhaisa 3.15-5, Khutela 3.15-5, tamaseoni 3.15-5, Kopra 3.15-5	117	23	2214.4
			2017-18	1	Beltukri 3.15	1	Dharampura 3.15	3	Datrenga 3.15-5, Mandirhasod 3.15-5, parsada(joshi) 3.15-5	39	14	786.09
			2018-19	1	Pirda 3.15	1	Mana 3.15	2	Mangsa 3.15-5, Parsada(vidyamandir) 3.15-5	42	18	533.49
			2019-20	1	Kota 3.15	1	Dhansuli 3.15	1	Dhansuli 3.15-5	37	3.5	482.16
			2020-21	0		0		0		0	0	0
2		Dhamtari	2016-17	4	Syamtara 5, Pachpedi 3.15, Kuhkuha 3.15, Amlidih 3.15	4	Lilar 3.15, Sedip 3.15, Ghatula 3.15, Kundel 3.15	3	Mohandi 3.15 to 5, Nari 3.15 to 5, Kandel 3.15 to 5	38	54.5	1210.01
			2017-18	1	Koliyari 3.15	2	Silidih 3.15, Khamhariya 3.15	2	Gadadih 3.15 to 5, Siluati 3.15 to 5	10.3	18	370.53
			2018-19	3	Chorbhatti 3.15, Hasda 3.15, Borai 3.15	1	Kundel 3.15	3	Nari 3.15 to 5, Seldeep 3.15 to 5, Rudri 3.15 to 5	38	36	754.88
			2019-20	2	Kareli (B) 3.15, Chhipali 3.15	1	Singpur 3.15	4	Sirri 3.15 to 5, Belargaon 3.15 to 5, Guhannala 3.15 to 5, Housing board 3.15 to 5	7	17	455.23
			2020-21	3	Mohera 3.15, Tangapani 3.15, Sirsidax 3.15	1	Sankara 3.15	4	Kandel 3.15 to 5, Megha 3.15 to 5.0, Joratarai 3.15 to 5, Kundel 3.15 to 5	27	51	768.33

REVIEW PETITION ON CAPITAL INVESTMENT PLAN ORDER FOR FY 2016-17 TO FY 2020-21

Circle wise & District Wise STN proposals for MYT Control Period												
S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
3		Baloda bazar-Bhatapara	2016-17	8	Khairi 3.15, Katangi 3.15, Ambedkar chowk baloda bazar 3.15 IPDS, Rajadeori 3.15, Rohansi 3.15, Arjuni 3.15, Simga 3.15, Khokhali 3.15	4	Sandi 3.15, Devari 3.15, Kosmanda 3.15, Bithkuli 3.15	6	Bhatagaon 3.15-5 IPDS, Pachari 3.15-5, Lawan 3.15-5, Dhekuna 3.15-5, Hathbandh 3.15-5, singarpur 3.15-5	94	80.9	1988.76
			2017-18	4	Amera 3.15, Bilaigarh 3.15, Manora 3.15, Dhabadih 3.15	2	Gopalpur 3.15, Tehka 3.15	1	Marda 3.15-5	35	22	803.49
			2018-19	4	Chikhali 3.15, Tata Bilaspur 3.15, Muswa 3.15, Nawagaon 3.15,	1	Girodhpuri 3.15	1	Barpali 3.15-5	26	40	762.39
			2019-20	2	Lahod 3.15, Datan 3.15	-	-	0	-	12	18	342.56
			2020-21	2	Saliha 3.15, Gidhpuri 3.15	-	-	0	-	18	20	369
TOTAL RAIPUR CIRCLE				41		22		36	540.3	415.9	11841.32	
4	Mahasamund(O&M)	Mahasamund	2016-17	6	Mokaputka 3.15, Pitiyajhar 3.15, Basti bagbahra 3.15, achholi 3.15, limdarha 3.15, tosgaon 3.15.	3	Narra 3.15, Rajpur 3.15, Khaikhuta 3.15	5	Sunsuniya 3.15-5, Mungaser 3.15-5, Sagarpali 3.15-5, Birkoni 3.15-5, Sunsuniya 3.15-5	125	90.10	2280.70
			2017-18	6	Bakma 3.15, Kolpadar 3.15, Charoda 3.15, Kudekel 3.15, Kankewa 3.15, Dongripali 3.15	2	Bundeli 3.15, sirpur3.15	2	Tendukona 3.15-5, Bhukel 3.15-5	74	49.50	1567.135
			2018-19	4	Kasturbod 3.15, Amlidih 3.15, Arjunda 3.15, Khuteri 3.15	1	Kotapara 3.15	0		64	38.50	1136.945
			2019-20	2	Sukhipali 3.15, Kendumudi 3.15	0		0		11	17.00	371.55
			2020-21	1	Badetemri 3.15	0		0		3	7.00	157.2
5		Gariyaband	2016-17	2	Joba (Darripara) 3.15, Bhilai 3.15	3	Dhawalpur 3.15, Bindra nawagarh 3.15, Jatmai (Sankara) 3.15	3	Chhura 1.6-3.15, Gorapadar 1.6-3.15, Gariyaband 3.15-5	82	24.50	1183.565

REVIEW PETITION ON CAPITAL INVESTMENT PLAN ORDER FOR FY 2016-17 TO FY 2020-21

Circle wise & District Wise STN proposals for MYT Control Period												
S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
			2017-18	2	Malgaon 3.15, Paktiya 3.15	3	Paragaon 3.15, Barula 3.15, Rasela 3.15	2	Kochway 3.15-5, Mainpur 3.15-5	9	21.00	581.73
			2018-19	0		0		0		0	0	0
			2019-20	0		0		0		0	0	0
			2020-21	0		0		0		0	0	0
TOTAL MAHASAMUND Circle				23		12		12		368	247.6	7278.82
6	Durg (O&M)	Durg	2016-17	6	Sirnahata 5, Rajpur 5, Dabrapara 5, Sonpur 5, Hirri 5, Nikum 5	4	Collectorate Durg(T) 5, Dargaon 3.15, Kanharपुर 3.15, Selud 3.15	4	Ahirwara 3.15-5 IPDS, Thelka Chowk 3.15-5, Dhamdha 3.15-5, Godhi 3.15-5	84	37.8	1886.55
			2017-18	3	Arasnara 5, Nardha 5, Purai 5	3	Girhola 3.15, Anjora 3.15, Kurla 3.15	3	Jamgaon-T 3.15-5, Patan 3.15-5, Kanharपुर 3.15-	57	30	929.58
			2018-19	2	Chandkhuri 5, Ghotia 5	2	Gadadih 3.15, Dhaba 3.15	2	Amleshwar (2x3.15-5)	43	20	643.42
			2019-20	0		0		0	-	0	0	0
			2020-21	0		0		0	-	0	0	0
7		Balod	2016-17	3	Biloda 3.15, Kurdi 5, Manchuwa 5	6	Arjunda 3.15 IPDS, Kochera 3.15, Jewartala 3.15, Nipani 3.15, Kalangpur 3.15, Jhalmala 3.15	3	Haldi 1.6-3.15, Latabod 3.15-5, Suregaon 3.15-5	68	58	1576.19
			2017-18	1	Bharda	3	Mohandipat 3.15, Basin 3.15, K'Badar 3.15	2	Parsuli 3.15-5, Sikosa 3.15-5	25	15	486.66
			2018-19	0		2	Dhanora 3.15, Bharritoal 1.6	1	Markatola 1.6-3.15	0	0	111.65

REVIEW PETITION ON CAPITAL INVESTMENT PLAN ORDER FOR FY 2016-17 TO FY 2020-21

Circle wise & District Wise STN proposals for MYT Control Period													
S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs	
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup	
			2019-20	0		1	Fagundah 1.6	0	0	0	0	33.38	
			2020-21	0		0	0	0	0	0	0	0	
8		Bemetara	2016-17	7	Godamor 5, Hatranka 5, Bemetara(T) 5, Sonmaikala 5, Sondh 5, Rajkudi 5, Pratappur 5	2	Kodwa 3.15, Sambalpur 3.15	2	Sarda 3.15-5, Mohgaon 3.15-5	29	56.8	2197.44	
			2017-18	4	Gondgiri 5, Kusmi 5, Kunra 3.15, kapa 5	2	Deokar 3.15, Andhiyarkhor 3.15	1	Putpura 3.15-5	73	35	847.37	
			2018-19	3	Padmi 5, Bhainsa 3.15, Hemabandh 3.15	0	0	0	0	15	15	409.42	
			2019-20	0	0	0	0	0	0	0	0	0	
			2020-21	0	0	0	0	0	0	0	0	0	
TOTAL DURG Circle				29		25		18		394	267.6	9121.66	
9	Rajnandgaon(O&M)		Rajnandgaon	2016-17	8	Tapa 3.15, Bori 3.15, Surgi 3.15, Bainsatara 3.15, Limo 3.15, Rahud 3.15, Bandhabazar 3.15, Hat Banjari 3.15	3	Baghera 3.15, Salhewara 3.15, Kaudikasa 3.15	4	Ganjmandi 3.15-5, Nawagaon 3.15-5, Salhebhari 3.15-5, Bundeli 3.15-5	61	79	1604.01
				2017-18	6	Tedesara 3.15, Sonesara 3.15, Pendri 3.15, Itar 3.15, Mandla 3.15, Dumartola 3.15	4	Jhuranadi 3.15, Musra 3.15, S. Chichari 3.15, Aundhi 3.15	6	Rewadih 3.15-5, Mohara 3.15-5, Jalbandha 3.15-5, Gaiandatola 1.6-3.15, Digwadi 1.6-3.15, Dhara 3.15-5	49	62	1481.93
				2018-19	3	Bhorampur 3.15, Udaypur 3.15, Khadgaon 3.15	0		4	Mudhipar 2x3.15-2x5, Khujji 3.15-5, Manpur 1.6-3.15	24	24	685.41
				2019-20	2	Bagur 3.15, Umarwahi 3.15	3	Medha 3.15, Paniyajob 3.15, Chilhati 3.15,	1	Chilhati 3.15-5	20	15	592.25

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S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs	
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup	
			2020-21	3	Gadaghat 3.15, Sitagaon 3.15, Pipariya 3.15	0		3	Kumarda 3.15-5, Aari 3.15-5, Medha 3.15-5	15	23	652.32	
10		Kabirdham	2016-17	6	Padhi 3.15, Mahrajapur 3.15, Gochhiya 3.15, Gapal Bhavna 3.15, Naroli 3.15, Kabratola 3.15	3	Damapur 3.15, Kisungarh 3.15, Saranpur 3.15	0	-	45	59.1	1147.1	
			2017-18	6	Sonpuri rani 3.15, Udiyakala 3.15, Raweli 3.15, Patharra 3.15, Kolegaon 3.15, Minminiya 3.15	4	Singhanpuri 3.15, Rajanavagaon 3.15, Chandeni 3.15, Gudha 3.15	0	-	38	63	1172.81	
			2018-19	3	Koylari 3.15, Harinchhpra 3.15, Kharkhatta 3.15	1	Taregaon Jangle 3.15	0	-	24	26	565.66	
			2019-20	1	Baijalpur 3.15	1	Bahadurtola 3.15	0	-	17	6	273.94	
			2020-21	1	Khodiya 3.15	2	Chilphi 3.15, Rengakhar 3.15	0	-	0	0	232.76	
TOTAL RAJNANDGAON Circle				39		21		18		293	357.1	8408.19	
11	Bilaspur(O&M)	Bilaspur	2016-17	6	Semartal 3.15, Risda 3.15, Piraiya 3.15, Okhar 3.15, Kota (C.V. Raman university) 3.15, Ganiyari 3.15	5	Hightech Bus-stand 3.15, Jareli 3.15, Kargikala 3.15, Bartori 3.15, Jairam nagar 3.15	7	Marwahi 3.15-5, Kota 3.15-5, Ratanpur 3.15-5, Kathakoni 3.15-5, Sendri 3.15-5, Banki ghat 1.6-3.15, Lalpur 1.6-3.15	52.76	48	2451.85	
				2017-18	2	Pakariya 3.15, Selar 3.15	2	Daija 3.15, Kotmikala 3.15	4	Kotmikala 3.15-5, Pendra 3.15-5, Jali 3.15-5, Belgahna 3.15-5	21.81	6.5	1129.34
				2018-19	2	Kewchi 3.15, Sagar Homes-3.15	2	Pachpedi 3.15, Gokuldham 3.15	3	Marwahi 3.15-5, Kathakoni 3.15-5, Chapora 3.15-5	21.81	8.5	1208.17
				2019-20	2	Jaraudha 3.15, Seoni (Marwahi) 3.15	2	Chilhathi 3.15, Belpan 3.15	3	Tenganmada 3.15-5, Jali 3.15-5, Sipat 3.15-5	21.81	10	967.3

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S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
			2020-21	2	Pendra-Road (Andhiyarkhor) 3.15, Kathakoni 3.15	2	Khamariya 3.15, Transport Nagar 3.15	3	Kotgarh 3.15-5, Pendra Road 3.15-5, Sendri 3.15-5,	21.81	9	1086.32
12		Mungeli	2016-17	5	Pauni 5, Lalpurthana 5, Hinchapur 5, Lormi 3.15, Mungeli Rest house	1	Tedhadaura 3.15	4	Godkhamhi 3.15-5, Gidha 3.15-5, Chhattan 3.15-5, Fastarpur 3.15-5	58.81	46	1685.82
			2017-18	2	Bhatah 3.15, Khudiya 3.15	1	Sildaha 3.15	2	Tedhdhoura 3.15-5, Chandkhuri- 3.15-5	21.81	3.5	772.27
			2018-19	2	Bhalukhondra 3.15, Teliyapuram 3.15	1	Lagara 3.15	2	Kotri 3.15-5, Neosa 3.15-5	21.81	4.5	712.53
			2019-20	1	Kodba 3.15	1	Kukusda 3.15	2	Akharar 3.15-5, Kotri 3.15-5	14.79	5.5	538.89
			2020-21	1	Meghapara 3.15			2	Manoharpur 3.15-5, Gondkhamhi 3.15-5	14.78	2.5	410.63
TOTAL BILASPUR Circle				25		17		32		272	144	10963.12
13		Janjgir-Champa	2016-17	7	Tilai 3.15, Mulmula 3.15, sakarali 3.15, churteli 3.15, Malda 3.15, Khairjhitti 3.15, Samera 3.15	2	Lachhanpur 3.15, Division office Champa 3.15	4	Baloda 3.15-5, Dhurkota 3.15-5, Khisora 3.15-5, Nandeli bhata 3.15-5	90.5	94	2021.69
			2017-18	4	Deori 3.15, Ranitalab 3.15, Mohagaon 3.15, Sanduras 3.15	4	Rasota 3.15, Kosala 3.15, Seoni 3.15, Afrid 3.15	4	Baloda 3.15-5, Khisora 3.15-5, Nailabhatapara 3.15-5, Saragaon 3.15-5	54.5	36	1450.17
			2018-19	4	Mudpar 3.15, Pandari 3.15, Putpura 3.15, Darang 3.15	5	Bhaiso (simariya) 3.15, Hardi 3.15, Pahariya 3.15, Amoda 3.15, Birgahani 3.15	2	Kotadabari 3.15-5, Lachhanpur 3.15-5	42.5	17	1196.88
	Janjgir-Champa(O&M)		2019-20	2	Ringani 3.15, Rasota 3.15	4	Khokhara 3.15, Salni 3.15, Portha 3.15, Sirli 3.15	4	Housing board Janjgir 3.15-5, Division office Champa 3.15-5, Basantpur 3.15-5, Kotmi 3.15-5	12	5	801.04

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			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
			2020-21	2	Kosir 3.15,Rogda 3.15	4	Korba Road Champa 3.15,Badesipat 3.15,Sendari 3.15,Chisda 3.15	5	Hardi 3.15-5,Hanumandhara 3.15-5,Pota 3.15-5,Hasaud 3.15-5,Darra 3.15-5	19	5	940.76
TOTAJ J-CHAMPA Circle				19		19		19	218.5	157	6410.54	
14	Raigarh(O&M)	Raigarh	2016-17	6	Patrapali 3.15,Botalda 3.15, Sonbarsa 3.15, Kafarmar 3.15, Chharra tanger 3.15,Jarekela 3.15	6	Halahully 3.15, Turekela 3.15, Kudumkela 3.15, Putkapuri 3.15, Raibar 3.15,Tausir 3.15	1	Banjari 1.6-3.15	69	37	1672.27
			2017-18	3	Bade Rampur 3.15, Dhangaon 3.15, Kanakbira 3.15	7	Loing 3.15, Kotrimal 3.15, Chaple 3.15, Litaipali 3.15, Chh.Umariya 3.15, Bhathali 3.15, Jhalmala 3.15	5	Khamhar 1.6-3.15, Kudemkela 3.15-5,Banjari 3.15-5,Tausir 3.15-5,Lailunga 3.15-5	17.5	28	1158.825
			2018-19	5	Mangludeepa 3.15, Gharghoda 3.15, Hamirpur 3.15, Tadola 3.15, Junwani 3.15	5	Nandeli 3.15, Tausir 3.15, Kedar 3.15, Timarlaga 3.15, Lodajhar 3.15	4	Salar 1.6-3.15, Kirodimal Nagar3.15-5, Kosir 3.15-5, Pathalgaon 3.15-5	52	37	1398.39
			2019-20	3	Barbhouna 3.15, Sanda 3.15, Patelpali 3.15	1	Hattapali 3.15	3	Kotrimal 1.6-3.15, Bhelwadih 3.15-5, Bar 3.15-5	28	34.5	896.385
			2020-21	4	Rajiv Nagar 3.15, Bore 3.15, Bansia 3.15,Jhariyapara3.15	1	Basantpur 3.15	2	Barra 1.6-3.15, Bonda 3.15-5	47	33	1050.32
15			Jashpur	2016-17	4	Narayanpur 3.15, Sanna 3.15, Ghanijiyabhat 3.15, Ranpur 3.15	1	Tapkara 3.15	1	Kunkuri 3.15-5	97	79
		2017-18		3	Amapali 3.15, Lodhma 3.15, Dokda 3.15	2	Charkhapara 3.15, Bagicha 3.15	3	Ludeg 3.15-5, Kunkuri 3.15-5, Kotba 3.15-5	52	31	941.37
		2018-19		0	0	2	Laripani 3.15, Khamhar 3.15	1	Hati 3.15-5	8	13	323.28

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			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
			2019-20	2	Baisi 3.15, Palidih 3.15	1	Kamarga 3.15	1	Ranpur 3.15-5	12	17	448.5
			2020-21	0	0	1	Gariyapath 3.15	1	Baisi 3.15-5	0	10.5	178.48
Total Raigarh Circle				30		27		22		382.5	320	9518.93
16	Korba(O&M)	Korba	2016-17	8	Tuman 3.15, Kudmura 3.15, Korbi 3.15, Switching S/s 33 KV, Morga3.15,Binjhra3.15,Sanjaynagar 5, Kohadiya 5	3	Urga 3.15, Kanki 3.15, Nehru nagar 3.15	3	Chhurri 3.15-5, Bhilaibazar 3.15-5, Balco 3.15-5	144	129.5	2838.08
			2017-18	3	Katghora 5,Dadar 5, Motisagar Para 5	3	Chhuri 3.15, Bhilaibazar 3.15, Bankimongra 3.15	3	Barpali 3.15-5, Korbi 3.15-5, Industrial Area 3.15-5	88	55	1444.12
			2018-19	2	Lemru 3.15, Belakachar 3.15	3	Pasan 3.15, Rampur(Kartala) 3.15, Imliduggu 3.15	2	Dipka 3.15-5, Bankimongra 3.15-5	75	45	1236.13
			2019-20	2	Jalkey 3.15,Gevra 5	2	Jatga3.15, Podi-uproda 3.15,	1	Darri(R) 3.15-5	45	35	1137.2
			2020-21	1	Sirmina 3.15	2	Chaitma 3.15, Indiranagar 3.15	2	Barpali 3.15-5,Irrigation Darri 3.15-5,	40	25	825.6
Total Korba Circle				16		13		11		392	289.5	7481.13
17	Ambikapur (O&M)	Surguja	2016-17	5	Khamriya 3.15, Dandgaon 3.15, Industrial area (Ambikapur) 3.15,Sandbar 3.15, Petla 3.15	0	-	1	Lakhanpur 3.15 to 5.0	23.00	30.00	896.87
			2017-18	2	Sukhari 3.15, mangari 3.15	0	-	0	-	38.00	9.00	392.77
			2018-19	1	Karabel(Vandana) 3.15	0	-	0	-	5.00	5.00	124.07
			2019-20	0	-	0	-	0	-	25	0	124.5
			2020-21	0	-	0	-	0	-	0	0	0

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			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
18		Balrampur	2016-17	3	Tatapani 3.15, Mahavirganj 3.15, Balrampur 3.15	1	Sanawal	3	Rajpur 3.15 to 5.0, Dindo 1.6-3.15, Dipadih 1.6-3.15	85	10	936.79
			2017-18	2	karounda(dewri) 3.15, Chandra 3.15	2	Ranhat 3.15, rewti 3.15,	2	Bariyon 3.15-5, Silphili 3.15-5,	54	11	650.46
			2018-19	1	Kundikala 3.15	0	-	0	-	52	5	355.64
			2019-20	1	Vijaypur 3.15	0	-	0	-	65	6	407.56
			2020-21	0		0	-	0	-	0	0	0
19		Surajpur	2016-17	2	Khadgawankala 3.15, Shiv Prasad Nagar 3.15	2	Durti 3.15, Krishnapur 3.15	5	Ptarappur 3.15-5, Ramanujnagar 1.6-3.15, Karawa 3.15-5, Bishrampur 3.15-5, Jamdi 3.15 to 5.0	118	13	891.47
			2017-18	1	Ajabnagar(kalighat) 3.15	1	Premnagar 3.15	1	Bhaiyahthan 3.15-5	15	6	264.21
			2018-19	1	Datima(latori) 3.15	1	Salka 3.15	1	Biharpur 1.6-3.15	27	5	323.21
			2019-20	0	-	0	-	0	-	0	0	0
			2020-21	0	-	0	-	0	-	0	0	0
20		Koria	2016-17	3	Bardia 3.15, Sidhbaba (Manendragarh) 3.15, Baharsi 3.15	1	Kelhari 3.15	4	Nagpur 1.6 to 3.15, Khadgaon 1.6-3.15, Mansukh 1.6-3.15, SENDHA(MAHARAJPUR) 1.6-3.15	42	22.5	829.48
			2017-18	1	Kotadol 3.15	0	-	1	Janakpur 1.6 to 3.15	35	6	298.65
			2018-19	1	Budar 3.15	1	Sonhat 3.15	1	Chainpur 3.15-5	10	4	229.87
			2019-20	0	-	0	-	0	-	20	0	103.29

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			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
			2020-21	0	-	0	-	0	-	0	0	0
TOTAL AMBIKAPUR Circle				24		9		19		614	133	6828.84
21	Jagdalpur(O&M)	Bastar	2016-17	5	Bastarnar 3.15, Malgaon 3.15, Aasna 3.15, Aadawal 3.15, Madhota 3.15	0		4	Jagdalpur 3.15-5, Bastar3.15-5,Bakawand 3.15 to 5, Karpawand 1.6-3.15	72	42	1215.3
			2017-18	2	Karanji 3.15, Lohandiguda 3.15	1	Ghotiya 3.15	1	Ghatlohanga 3.15 to 5	47	37	670.18
			2018-19	2	Muli 3.15, Keshapur 3.15	1	Balenga 3.15	2	Bhanpuri 3.15 to 5 , Semra 3.15 to 5	47	15	617.76
			2019-20	1	Aanjar 3.15	1	Ulnar 1.6	2	Bhanpuri 3.15 to 5 , Semra 3.15 to 5	20	15	377.1
			2020-21	1	Nangoor 3.15	0	-	0	-	20	12	235.72
22			Bijapur	2016-17	2	Naimed 3.15, Modakpal 3.15	0	-	1	Bijapur 3.15 to 5	16	26
		2017-18		1	Ilmidi 3.15	1	Kutru 1.6	2	Bijapur 3.15 to 5, Bhairamgarh 1.6 to 3.15	55	12	539.97
		2018-19		1	Gangaloor 3.15	0	-	0	-	40	15	331.75
		2019-20		0	-	0	-	0	-	0	0	0.00
		2020-21		0	-	0	-	0	-	0	0	0.00
23		Dantewada		2016-17	3	Palnar 3.15,Mikapal 3.15, Mokhpal 3.15	0	-	2	Dantewada 3.15 to 5, Geedam 3.15 to 5	17	44
			2017-18	1	Patarras 3.15	1	Tumnar 1.6	2	Dantewada 3.15 to 5, Geedam 3.15 to 5	30	10	442.85
			2018-19	1	Teknar 3.15	0	-	1	Bacheli 1.6 to 3.15	4	10	199.42
			2019-20	0	-	0	-	1	Barsoor 1.6 to 3.15	0	0	50.4

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			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
24		Sukma	2020-21	0	-	0	-	1	Barsoor 1.6 to 3.15	0	0	50.4
			2016-17	2	Kukanar 3.15, Pushpal 3.15	1	Tongpal 1.6	1	Sukma 3.15 to 5	71	34.5	739.1
			2017-18	1	Errabore 3.15	1	Konta 1.6	1	Konta 1.6 to 3.15	45	15	477.2
			2018-19	1	Kankerlanka	1	Gadiras 3.15	1	Sukma 3.15 to 5	40	15	379.9
			2019-20	0	-	0		1	Tongpal 1.6-3.15	0	0	58.15
			2020-21	0	-	0		0	-	0	0	0.00
TOTAL Jagadalpur Circle				24		8		23		524	302.5	7709.03
25	Kanker (O&M)	Kanker	2016-17	2	Ambedka 3.15, Hanken 3.15, Antagarh 3.15, Chottebethiya 3.15, Makdi 3.15,	1	Bande 3.15	3	Antagarh 1.6-3.15, Bhanupratappur 3.15-5, Musurputta 3.15-5	135	42	1758.81
			2017-18	2	Kurna 3.15, Sahwada 3.15,			1	Singarbhat 3.15-5	19	17	463.85
			2018-19	2	Badgaon 3.15, Bhanbeda 3.15			2	Sarona 3.15-5, Lilejhar 3.15-5	5	25	389
			2019-20	2	Patoud 3.15, Charbhata 3.15			1	Kanker town 3.15- 5	12	17	328.3
			2020-21	1	Dumarpani 3.15			1	Tahkapar 3.15-5	15	15	241.36
			26	Kanker (O&M)	Kondagaon	2016-17	2	Bargaon 3.15, Bijapur 3.15	2	Dahikonga 3.15, Vishrampuri 3.15	1	Lanjoda 1.6 - 3.15
2017-18	1	Adenga 3.15				2	Bedma 3.15, Badedongar 3.15	0		85	40	929.34
2018-19	1	Kibaibalenga 3.15				2	Chipawand 3.15, Makdi 3.15	0		42	10	529.27
2019-20	1	Urاندابدا 3.15				1	Dhanora 3.15,	0		25	15	369.69
2020-21	1	Iragaon 3.15				1	Mardapal 3.15	0		20	15	333.74

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S. No.	Name of Circle	Name of District	33/11 KV S/s New			Additional Xmer		Xmer augmentation		33 KV line (in K.M.)	11 KV line (in K.M.)	Cost of work in Lacs
			Year	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	Name of Proposed S/s	District wise Breakup	District wise Breakup	District wise Breakup
27		Narayanpur	2016-17	3	Remawand 3.15, Garhbengal 3.15, Kukrajhor 3.15	0		2	Narayanpur 3.15-5, Narayanpur 1.6-3.15	104	34	1309.2
			2017-18	1	Edka 3.15	0		0		15	20	429.06
			2018-19	1	Orchha 3.15	0		0		30	20	405.67
			2019-20	0		0		0		0	0	0
			2020-21	0		0		0		0	0	0
Total Kanker Circle				20		9		11		541	319	8408.2
STATE TOTAL				290		182		221		4539	2953	93969.78
			2016-17	123		61		83		1972.07	1344.2	40231.30
			2017-18	66		54		54		1102.92	672.5	21481.96
			2018-19	51		33		35		799.12	471.5	15564.21
			2019-20	27		20		25		404.6	236.5	9159.38
			2020-21	23		14		24		260.59	228	7532.94
			Total	290		182		221		4539.3	2952.7	93969.78

Annexure 2: Circle Wise Addition under IPDS in MYT Control Period

Proposed New Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
1	Ambikapur	Bhatgaon	3.15
2		Surajpur	3.15

Proposed New Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
3		Rajpur	1.60
4	Korba	Korba	5.00
5		Dipka	3.15
6	Bilaspur City	Sirgitti	5.00
7	Champa	Naila	5.00
8		Akaltara	3.15
9		Sakti	3.15
10		Baradwar	3.15
11	Durg City	Durg	5.00
12		Durg	5.00
13	Kanker	Kondagaon	3.15
14	Mahasamund	Mahasamund	3.15
15		Pithora	3.15
16		Basna	3.15
17	Bilaspur O&M	Mungeli	3.15
18		Tifra	3.15
19		Ratanpur	3.15
20		Takhatpur	3.15
21	Raipur O&M	Gobra Nayapara	5.00
22		Hirmi	1.60
23		Simga	3.15
24	Raigarh	Kharsia	5.00
25		Kotba	3.15
26		Baramkela	5.00
27		Saria	3.15
28		Jashpur	3.15
29	Rajnandgaon	Kawardha	3.15
30		Dongargaon	3.15
31		Piparia	3.15
32		Pandaria	5.00
	Total		114.35

Proposed Additional Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
1	Ambikapur	Ambikapur(T)	3.15
2		Ramanujganj	3.15
3	Champa	Rahod	3.15
4	Durg City	Durg	5.00
5		Durg	5.00
6	Kanker	Vishrampuri	3.15
7	Bilaspur O&M	Mungeli	3.15
8		Bodri	3.15
9	Raipur O&M	Arang	3.15
10		Tilda	3.15
11	Raigarh	Raigarh	5.00
12		Kirodimal Nagar	3.15
13	Raipur(I)	Raipur	5.00
14		Raipur	5.00
15		Raipur	5.00
16		Raipur	5.00
17		Raipur	5.00
18	Raipur(II)	Urla	5.00
19		Urla	5.00
20	Rajnandgaon	Rajnandgaon	3.15
21		Rajnandgaon	3.15
22		Rajnandgaon	3.15
Total			87.80

Proposed Aug. of Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
1	Ambikapur	Ambikapur	3.15 to 5.00
2		Pratap Pur	3.15 to 5.00
3		Baikunthpur	3.15 to 5.00

Proposed Aug. of Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
4		Balrampur	3.15 to 5.00
5		Wadraf Nagar	3.15 to 5.00
6	Korba	Korba	3.15 to 5.00
7	Champa	Nawagarh	3.15 to 5.00
8		Akaltara	3.15 to 5.00
9		Sheorinarayan	3.15 to 5.00
10	Durg City	Durg	3.15 to 5.00
11		Durg	3.15 to 5.00
12		Durg	3.15 to 5.00
13	Jagdalpur	Bijapur	3.15 to 5.00
14		Bijapur	1.60 to 3.15
15	Kanker	Keshkal	1.60 to 3.15
16	Bilaspur O&M	Bodri	3.15 to 5.00
17		Bilha	3.15 to 5.00
18		Sakri	3.15 to 5.00
19		Malhar	3.15 to 5.00
20		Kota	3.15 to 5.00
21		Pendra Road	3.15 to 5.00
22		Pendra Town	3.15 to 5.00
23		Lormi	3.15 to 5.00

Proposed Aug. of Substations under IPDS			
S.No.	Name of Circle	Name of Town	Capacity in MVA
24		Patharia	3.15 to 5.00
25		Sargaon	3.15 to 5.00
26	Durg O&M	Nawagarh	3.15 to 5.00
27		Maro	3.15 to 5.00
28		Parpodi	3.15 to 5.00
29		Khamariya	3.15 to 5.00
30		Patan	3.15 to 5.00
31	Raipur O&M	Kurud	3.15 to 5.00
32		Kasdol	3.15 to 5.00
33	Total		3.15 to 5.00
34			3.15 to 5.00
35			3.15 to 5.00
36	Raipur(I)	Raipur	3.15 to 5.00
37		Raipur	3.15 to 5.00
38		Raipur	3.15 to 5.00
39		Raipur	3.15 to 5.00
40		Raipur	3.15 to 5.00
41	Raipur(II)	Siltara	3.15 to 5.00
42		Siltara	3.15 to 5.00
43	Rajnandgaon	Churia	3.15 to 5.00

Annexure 3: Circle Wise Addition under DDUGJY in MYT Control Period

New 33/11KV S/s in DDUGJY								
S.No	Name of District	Name of Block and Census Code	New 66/11 KV or 33/11 kV Sub-Stations proposed under present scheme				CTPT unit	
			Location of S/s	No. of S/s	PT Capacity		33KV CTPT	11KV CTPT
			Name	Nos.	3.15MVA	5MVA		
1	2	3	4	5	6	7	8	9
1	Baloda Bazar	Simga	HIRMI	1	1	0	1	2
		Balodabazar	DAMRRU	1	1	0	1	2
			KARMADA	1	1	0	1	2
2	Balrampur	Kusmi	Samri	1	1	0	1	2
3	Jajgir-Champa	Bamhanidih	Karnoud	1	1	0	1	2
		Baloda	Pantora	1	1	0	1	2
		Sakti	Jaajang	1	1	0	1	2
4	Bilaspur	Thakhatpur	Pendari, Mochh	2	2	0	1	2
		Masturi	Gatoura, Kewatadih	2	2	0	1	2
		Marwahi	Bansital (danikundi)	1	1	0	1	2
		Gaurela	Khodri	1	1	0	1	2
5	Gariyaband	Gariaband	Pipparchhedi	1	1	0	1	2
		Gariaband	Kosami	1	1	0	1	2
		RAJIM/Fingeshwar	BAKLI	1	1	0	1	2
		RAJIM/Fingeshwar	SHYAMNAGAR	1	1	0	1	2
6	Dhamtari	Dhamtari	Borda	1	1	0	1	2
		Kurud	Katalbod	1	1	0	1	2
		Magarlod	Nawagaon Budeni	1	1	0	1	2
		Nagari	Murrumsilly	1	0	1	1	3
7	Jashpur	Farsabahr	Ganjiyadih	1	1	0	1	2
		Jashpur	Aara	1	1	0	1	2
8	Mahasamund	Mahasamund	Jhara	1	1	0	1	2
		Basna	Singhanpur	1	1	0	1	2
		Basna	Ganekera	1	1	0	1	2

New 33/11KV S/s in DDUGJY								
S.No	Name of District	Name of Block and Census Code	New 66/11 KV or 33/11 kV Sub-Stations proposed under present scheme				CTPT unit	
			Location of S/s	No. of S/s	PT Capacity		33KV CTPT	11KV CTPT
					Name	Nos.		
1	2	3	4	5	6	7	8	9
9	Mungeli	MUNGELI	Dulhanbai	1	0	1	1	3
		MUNGELI	Chatarkhar	1	0	1	1	3
		MUNGELI	Bhatgaon	1	0	1	1	3
		PATHARIYA	Dhardehi	1	0	1	1	3
		LORMI	Pali	1	0	1	1	3
10	Raigarh	RAIGARH	Kuburda	1	1	0	1	2
		TAMNAR	Dhourabhata	1	1	0	1	2
		PUSSORE	Turanga	1	0	1	1	3
		PUSSORE	Bunga	1	1	0	1	2
		SARANGARH	Chhote Hardi	1	1	0	1	2
		BARAMKELA	Nadigaon	1	0	1	1	3
		DHARAMJAIGARH	Kudekela	1	1	0	1	2
11	Raipur	ARANG	SAKRI	1	1	0	1	2
		ARANG	AKOLI KALA	1	1	0	1	2
		ARANG	GANOD	1	1	0	1	2
		DHARSEEVA	KARA	1	1	0	1	2
		ABHANPUR	BELBHATA	1	1	0	1	2
12	Bemetra	BERLA	Anandgaon	1	0	1	1	3
		NAWAGARH	Hatranka	1	0	1	1	3
13	Durg	DURG	Machandur	1	0	1	1	3
		PATAN	Belhari	1	0	1	1	3
14	Kawardha	KAWARDHA	NEYWARI	1	1	0	1	2
		PANDARIYA	KISUNGHAD	1	1	0	1	2
		PANDARIYA	KODWAGODAN	1	1	0	1	2
15	Rajanandgaon	CHHUIKHADAN	Palimeta	1	1	0	1	2
		DONGARGAON	Konari	1	1	0	1	2
		KHARAGARH	Baihatola	1	1	0	1	2
16	BASTAR	Jagdalspur	Nagarnar P3	1	1	0	1	2
		Lohandiguda	Taragaon P4	1	1	0	1	2
17	BIJAPUR	Bhiaramgarh	Kodoli	1	1	0	1	2
		Usoor	Basaguda	1	1	0	1	2
		Usoor	USOOR	1	1	0	1	2

New 33/11KV S/s in DDUGJY									
S.No	Name of District	Name of Block and Census Code	New 66/11 KV or 33/11 kV Sub-Stations proposed under present scheme				CTPT unit		
			Location of S/s	No. of S/s	PT Capacity		33KV CTPT	11KV CTPT	
					Name	Nos.			3.15MVA
1	2	3	4	5	6	7	8	9	
18	Dantewada	Geedam	Jawanga P 1	1	1	0	1	2	
			Ronje P4	1	1	0	1	2	
19	KANKER	Charama	Pandripani	1	1	0	1	2	
			Parsoda	1	1	0	1	2	
			Narharpur	Jamgaon	1	1	0	1	2
			Bhanupratappur	Damkasa	1	1	0	1	2
				Mathurabajar	1	1	0	1	2
20	KONDAGAON	Kondagaon	Girola	1	1	0	1	2	
		Baderajpur	Banskot	1	1	0	1	2	
21	Korba	Katghora	Boida	1	1	0	1	2	
			Dhelwadih	1	1	0	1	2	
			Ajgarbahar	1	1	0	1	2	
22	KORIYA	Manendragarh	Siddhbaba	1	1	0	1	2	
		Khadgawan	Bacharapodi	1	1	0	1	2	
23	NARAYANPUR	Orchha	Kundla	1	1	0	1	2	
24	SUKMA	Chhindgarh	TALNAR	1	1	0	1	2	
25	SURAJPUR	Surajpur	Girivarganj	1	1	0	1	2	
26	SURGUJA	Ambikapur	Nawanagar	1	1	0	1	2	
		Lakhanpur	Kunni	1	1	0	1	2	
		Batouli	Maheshpur	1	1	0	1	2	
		Sitapur	Petla	1	1	0	1	2	
		Mainpat	Bandana	1	1	0	1	2	
27	Balod	-	-	0	0	0	0	0	
TOTAL				80	68	12	78	168	

Addl. 33/11KV Power X-mer in DDUGJY								
S.No	Name of District	Name of Block and Census Code	Augmentation of capacity by an Additional Transformer in substation				CTPT unit	
			Location of S/s	No. of S/s	PT Capacity		33KV CTPT	11KV CTPT
			Name	Nos.	3.15MVA	5.0MVA		
1	2	3	4	5	6	7	8	9
1	Baloda Bazar	Bhatapara	SINGARPUR	1	1	0	1	2
		Simga	DHEKUNA	1	1	0	1	2
		Pallari	WATGAN	1	1	0	1	2
		Bilaigarh	DHANSIR	1	1	0	1	2
		Balodabazar	BALODABAZAR	1	1	0	1	2
2	Jajgir-Champa	Akaltara	Hardi	1	1	0	1	2
		Pamgarh	Bhaiso	1	1	0	1	2
3	Dhamtari	Nagari	Lilar	1	1	0	1	2
4	Raigarh	DHARAMJAIGARH	Salheona	0	0	0	1	2
5	Raipur	ARANG	TAMASEONI	1	1	0	1	2
6	Bemetra	BEMETRA	Mohtara	1	0	1	1	2
		BERLA	Bargaon	1	0	1	1	2
		BERLA	Pirda	1	0	1	1	2
		SAJA	Khati	1	0	1	1	2
7	Durg	DHAMDHA	Bori	1	1	0	1	2
		PATAN	Ranitarai	1	1	0	1	2
8	Dantewada	Kuwakonda	Kuakonda	1	1	0	1	2
9	KANKER	Kanker	Dhanelikanhar	1	1	0	1	2
10	SURGUJA	Ambikapur	Chathirma	1	1	0	1	2
		Lundra	Lamgaon	1	1	0	1	2
		Mainpat	Mainpat	1	1	0	1	2
TOTAL				20	16	4	21	42

Augmentation of X-mer in DDUGJY						
S.No	Name of District	Name of Block	Augmentation of capacity by replacement of lower capacity transformer with higher capacity transformer			
			Location of S/s	No. of S/s	PT Capacity	
			Name	Nos.	3.15 to 5 mva	1.6 to 3.15mva
1	2	3	4	5	6	7
1	Baloda Bazar	Bhatapara	DEORI	1	1	0
		Simga	JARAUT	1	1	0
		Pallari	GARABHATHA	1	1	0
		Bilaigarh	SARSINWA	1	1	0
		Balodabazar	MAGARCHABA	1	1	0
		Balodabazar	SONADIH	1	1	0
2	Balrampur	Kusmi	Chando	1	0	1
3	Jajgir-Champa	Baloda	Khisora	1	1	0
4	Bilaspur	Bilha	BILHA	1	1	0
		Thakhatpur	Sakri	1	1	0
		Thakhatpur	Chorbhatti	1	1	0
		Thakhatpur	Gokuldhama	1	1	0
		Masturi	MASTURI	1	1	0
		Kota	KARGIKALA	1	1	0
		Takhatpur	NEWARA	1	1	0
5	Gariyaband	Chhura	Madeli(Khadma)	3	2	1
		Chhura	MUDAGAON	1	0	1
		Deobhog	Deobhog	1	1	0
		Mainpur	AMALIPADAR	0	0	
6	Dhamtari	Dhamtari	Karenga	1	0	1
		Kurud	Silauti	1	1	0
		Magarlod	Megha	1	1	0
		Magarlod	Nawagaon	1	1	0
		Magarlod	Borsi	1	1	0
7	Jashpur	Kunkuri	Bandarchunwa	1	0	1
		Bagicha	Patratoli	1	0	1

Augmentation of X-mer in DDUGJY						
S.No	Name of District	Name of Block	Augmentation of capacity by replacement of lower capacity transformer with higher capacity transformer			
			Location of S/s	No. of S/s	PT Capacity	
			Name	Nos.	3.15 to 5 mva	1.6 to 3.15mva
1	2	3	4	5	6	7
		Duldula	Pandrapath	1	1	0
8	Mungeli	MUNGELI	Geedha	1	1	0
		MUNGELI	Dashrangpur	1	1	0
		MUNGELI	Pandarbhata	1	1	0
		MUNGELI	Temari	1	1	0
		MUNGELI	Tedhadhoura	1	1	0
		PATHARIYA	Pathariya	1	1	0
		PATHARIYA	Rambod	1	1	0
		LORMI	Lormi	1	1	0
9	Raigarh	KHARSIA	Singhanpur	1	1	0
		BARAMKELA	Gobersingha	1	1	0
		BARAMKELA	Bade Nawapara	1	1	0
		BARAMKELA	Bhathli	1	1	0
		BARAMKELA	Dongripali	1	1	0
		LAILUNGA	Laripani	1	0	1
		LAILUNGA	Kamarga	1	0	1
10	Bemetra	BEMETRA	Jhal	1	1	0
		BEMETRA	Khandsara	1	1	0
		BEMETRA	Amora	1	1	0
		BERLA	Ranka	1	1	0
		BERLA	Silghat	1	1	0
		BERLA	Deorbija	1	1	0
		NAWAGARH	Badnara	1	1	0
		SAJA	Khairjhity	1	1	0
		SAJA	Karesara	1	1	0
		SAJA	Thekka	1	1	0

Augmentation of X-mer in DDUGJY						
S.No	Name of District	Name of Block	Augmentation of capacity by replacement of lower capacity transformer with higher capacity transformer			
			Location of S/s	No. of S/s	PT Capacity	
			Name	Nos.	3.15 to 5 mva	1.6 to 3.15mva
1	2	3	4	5	6	7
		SAJA	Bortara	1	1	0
11	Durg	DURG	Jhola	1	1	0
		PATAN	Jamgaon R	1	1	0
		PATAN	Rewagahan	1	1	0
12	Kawardha	BODLA	PONDI	1	1	0
		KAWARDHA	BIJAE	1	1	0
		PANDARIYA	Kunda	2	2	0
		SAHASPUR LOHARA	Sabaratola	1	1	0
13	BALOD	DONDILUHARA	DONDILUHARA	2	2	0
		DONDILUHARA	PARSULI	2	2	0
		GURUR	PERPAR	2	2	0
		GURUR	SANOUD	2	2	0
14	BIJAPUR	Bhopalpatnam	Madded	2	0	2
15	KANKER	Narharpur	Narharpur	1	1	0
		Narharpur	Amoda	1	1	0
		Narharpur	Sarona	1	1	0
16	Korba		Kartala	1	1	0
		Pali	Chaitma	1	1	0
		Pali	Pasan	1	1	0
17	SURGUJA	Ambikapur	Darima	1	1	0
		Ambikapur	Bhittikala	1	1	0
		Lakhanpur	Lakhanpur	1	1	0
TOTAL				81	71	10