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**APPENDIX – A**

**FOR THE FY 2016-17**

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Lower Lhagap

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	12	12	12
2	Free power to home state	%			
3	Date of commercial operation		1979		
	Unit-1				
	Unit-2				
	Unit-3				
4	Type of Station				
	a) Surface/underground			Surface	
	b) Purely ROR/ Pondage/Storage				
	c) Peaking/non-peaking				
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator				
	b) Static excitation				
6	Design Energy (Annual) <sup>1</sup>	Gwh			
7	Auxiliary Consumption including Transformation losses	%			
8	Normative Plant Availability Factor (NAPAF)	%			
9.1	Maintenance Spares for WC	Rs. Lakh			
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate <sup>2</sup>	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Jali

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	2.1	2.1	2.1
2	Free power to home state	%	NA	NA	NA
3	Date of commercial operation		2004	2004	NA
	Unit-1	0.35	300kw	300kw	300kw
	Unit-2	0.35	NA	NA	NA
	Unit-3	NA	300kw	300kw	300kw
4	Type of Station				
	a) Surface/underground			surface	
	b) Purely ROR/ Pondage/Storage			ROR	
	c) Peaking/non-peaking			Non-Peaking	
	d) No. of hours of peaking			NA	
	e) Overload capacity(MW) & period			NA	
5	Type of excitation				
	a) Rotaing exciters on generator			Brush	
	b) Static excitation			NA	
6	Design Energy (Annual)	Gwh	113.15	NA	NA
7	Auxiliary Consumption including Transformation losses	%	0.50%	NA	NA
8	Normative Plant Availability Factor (NAPAF)	%	NA	NA	NA
9.1	Maintenance Spares for WC	Rs. Lakh	25	NA	NA
9.2	Receivable for WC	Rs. Lakh	3	NA	NA
9.3	Base Rate of Return on equity	%	NA	NA	NA
9.4	Tax Rate <sup>2</sup>	%	NA	NA	NA
9.5	Prime lending Rate of SBI as on		NA	NA	NA

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

**Name of the Hydro Generating Station: Rimbi - I**

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	0.6	0.6	0.6
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1		Mid 70s		
	Unit-2		Mid 70s		
	Unit-3		Early 90s		
4	Type of Station				
	a) Surface/underground		Surface		
	b) Purely ROR/ Pondage/Storage		Purely ROR		
	c) Peaking/non-peaking				
	d) No. of hours of peaking		3		
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator		Rotating Exciters on Generator		
	b) Static excitation				
6	Design Energy (Annual)	Gwh	5.256		
7	Auxiliary Consumption including Transformation losses	%	8.3%		
8	Normative Plant Availability Factor (NAPAF)	%	80%		
9.1	Maintenance Spares for WC	Rs. Lakh	2.7		
9.2	Receivable for WC	Rs. Lakh	27.57		
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Rimbi - II

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	2x0.5 MW	2x0.5 MW	2x0.5 MW
2	Free power to home state	%	100%	100%	100%
3	Date of commercial operation				
	Unit-1		20.07.1989		
	Unit-2		20.07.1989		
	Unit-3				
4	Type of Station				
	a) Surface/underground		Surface		
	b) Purely ROR/ Pondage/Storage		Purely Run of River		
	c) Peaking/non-peaking				
	d) No. of hours of peaking		3		
	e) Overload capacity(MW) & period				
5	Type of excitation		Rotating Exciters		
	a) Rotaing exciters on generator				
	b) Static excitation				
6	Design Energy (Annual)	Gwh	8.76		
7	Auxiliary Consumption including Transformation losses	%	8%		
8	Normative Plant Availability Factor (NAPAF)	%	80%		
9.1	Maintenance Spares for WC	Rs. Lakh	2		
9.2	Receivable for WC	Rs. Lakh	6.88		
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

**Name of the Hydro Generating Station: Rothak**

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	0.2	0.2	0.2
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1				
	Unit-2				
	Unit-3				
4	Type of Station				
	a) Surface/underground				
	b) Purely ROR/ Pondage/Storage				
	c) Peaking/non-peaking				
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing excitors on generator				
	b) Static excitation				
6	Design Energy (Annual)	Gwh			
7	Auxiliary Consumption including Transformation losses	%			
8	Normative Plant Availability Factor (NAPAF)	%			
9.1	Maintenance Spares for WC	Rs. Lakh			
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL  
PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE  
PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

**Name of the Hydro Generating Station: Rongnichu**

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	2.5	2.5	2.5
2	Free power to home state	%	NA	NA	NA
3	Date of commercial operation		NA	NA	NA
	Unit-1		NA	NA	NA
	Unit-2		NA	NA	NA
	Unit-3		NA	NA	NA
4	Type of Station				
	a) Surface/underground		surface	surface	surface
	b) Purely ROR/ Pondage/Storage		ROR	ROR	ROR
	c) Peaking/non-peaking		Non-Peaking	Non-Peaking	Non-Peaking
	d) No. of hours of peaking		NA	NA	NA
	e) Overload capacity(MW) & period		NA	NA	NA
5	Type of excitation				
	a) Rotaing exciters on generator		Brush	Brush	Brush
	b) Static excitation		NA	NA	NA
6	Design Energy (Annual)	Gwh	NA	NA	NA
7	Auxiliary Consumption including Transformation losses	%	NA	NA	NA
8	Normative Plant Availability Factor (NAPAF)	%	NA	NA	NA
9.1	Maintenance Spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base Rate of retuen on equity	%	NA	NA	NA
9.4	Tax Rate	%	NA	NA	NA
9.5	Prime lending Rate of SBI as on _____		NA	NA	NA



**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL  
PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE  
PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Chaten

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	1	1	1
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1				
	Unit-2				
	Unit-3				
4	Type of Station				
	a) Surface/underground				
	b) Purely ROR/ Pondage/Storage				
	c) Peaking/non-peaking				
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator				
	b) Static excitation				
6	Design Energy (Annual)	Gwh			
7	Auxiliary Consumption including Transformation losses	%			
8	Normative Plant Availability Factor (NAPAF)	%			
9.1	Maintenance Spares for WC	Rs. Lakh			
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL  
PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE  
PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Meyongchu

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	4	4	4
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1		1.8	1.8	2
	Unit-2		Nil	1.5	2
	Unit-3				
4	Type of Station				
	a) Surface/underground		Surface		
	b) Purely ROR/ Pondage/Storage		Run of River		
	c) Peaking/non-peaking		Non peaking		
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator		Rotating Excitor		
	b) Static excitation				
6	Design Energy (Annual)	Gwh	2.88		
7	Auxiliary Consumption including Transformation losses	%	1%		
8	Normative Plant Availability Factor (NAPAF)	%	50%	50%	100%
9.1	Maintenance Spares for WC	Rs. Lakh	NIL	NIL	NIL
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

**Name of the Hydro Generating Station: Upper Rongnichu**

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	8	8	8
2	Free power to home state	%	NA	NA	NA
3	Date of commercial operation		NA	NA	NA
	Unit-1		NA	NA	NA
	Unit-2		NA	NA	NA
	Unit-3		NA	NA	NA
4	Type of Station				
	a) Surface/underground		surface	surface	surface
	b) Purely ROR/ Pondage/Storage		ROR	ROR	ROR
	c) Peaking/non-peaking		Non-Peaking	Non-Peaking	Non-Peaking
	d) No. of hours of peaking		NA	NA	NA
	e) Overload capacity(MW) & period		NA	NA	NA
5	Type of excitation				
	a) Rotaing exciters on generator		Brush	Brush	Brush
	b) Static excitation		NA	NA	NA
6	Design Energy (Annual)	Gwh	NA	NA	NA
7	Auxiliary Consumption including Transformation losses	%	NA	NA	NA
8	Normative Plant Availability Factor (NAPAF)	%	NA	NA	NA
9.1	Maintenance Spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base Rate of retuen on equity	%	NA	NA	NA
9.4	Tax Rate	%	NA	NA	NA
9.5	Prime lending Rate of SBI as on _____		NA	NA	NA

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Kalez

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	0.2	0.2	0.2
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1		Sep-95		
	Unit-2		Sep-95		
	Unit-3				
4	Type of Station				
	a) Surface/underground		Surface		
	b) Purely ROR/ Pondage/Storage		Purely Run of River		
	c) Peaking/non-peaking				
	d) No. of hours of peaking		3		
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator		Rotating Exciters		
	b) Static excitation				
6	Design Energy (Annual)	Gwh	17.52		
7	Auxiliary Consumption including Transformation losses	%	4%		
8	Normative Plant Availability Factor (NAPAF)	%	80%		
9.1	Maintenance Spares for WC	Rs. Lakh	4		
9.2	Receivable for WC	Rs. Lakh	43.22		
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

**Name of the Hydro Generating Station: Lachung**

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	0.2	0.2	0.2
2	Free power to home state	%			
3	Date of commercial operation				
	Unit-1				
	Unit-2				
	Unit-3				
4	Type of Station				
	a) Surface/underground				
	b) Purely ROR/ Pondage/Storage				
	c) Peaking/non-peaking				
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing excitors on generator				
	b) Static excitation				
6	Design Energy (Annual)	Gwh			
7	Auxiliary Consumption including Transformation losses	%			
8	Normative Plant Availability Factor (NAPAF)	%			
9.1	Maintenance Spares for WC	Rs. Lakh			
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

**DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION**

Name of the Hydro Generating Station: Rabomchu

Sl. No.	Description	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Installed Capacity	MW	3	3	3
2	Free power to home state	%			
3	Date of commercial operation		2003		
	Unit-1		0.6	0.6	0.8
	Unit-2		Both the units are not operated at a Time as the load is mostly of local consumption. Power evacuation through 66kv state grid work is completed however due to damage of 66kv tower during earth quake on 18/09/11 ,the 66kv line is completely shutdown.		
	Unit-3				
4	Type of Station				
	a) Surface/underground		Surface		
	b) Purely ROR/ Pondage/Storage		Run of River		
	c) Peaking/non-peaking		Non peaking		
	d) No. of hours of peaking				
	e) Overload capacity(MW) & period				
5	Type of excitation				
	a) Rotaing exciters on generator		Rotating Excitor		
	b) Static excitation				
6	Design Energy (Annual)	Gwh	2.16		
7	Auxiliary Consumption including Transformation losses	%	1%		
8	Normative Plant Availability Factor (NAPAF)	%	50%	50%	100%
9.1	Maintenance Spares for WC	Rs. Lakh	NIL	NIL	NIL
9.2	Receivable for WC	Rs. Lakh			
9.3	Base Rate of retuen on equity	%			
9.4	Tax Rate	%			
9.5	Prime lending Rate of SBI as on _____				

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

## Name of the Hydro Generating Station: Lower Lhagap

1	<b>Location:</b>	
	State/ Distt.	Sikkim East
	River:	Rorochu, Yallichu, Takchenchu.
2	<b>Diversion Tunnel</b>	
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	Run of River type
	Maximum Dam Height	
4	<b>Spillway:</b>	
	Type:	Un-gated, open cut spill channel
	Crest level of spillway:	
5	<b>Reservoir:</b>	Forebay Tank
	Full Reservoir Level (FRL):	E.L 3765 m (12,349 ft)
	Minimum Draw Down Level (MDDL):	E.L 3745 m (12,284 ft)
	Live storage (MCM):	5.20 m cum (4216 Ac ft)
6	<b>Desilting Arrangement:</b>	
	Type:	Square
	Number & Size	One,2.44mx2.44mx10m
	Partical size to be removed (mm):	Sand
7	<b>Head race tunnel:</b>	
	Size & Type	2.44mx2.44mx1.5m dia , Horse shoe & Circular
	Length:	6.4 Km
	Design discharge (cumecs):	4.7 Cumecs
8	<b>Surge shaft:</b>	
	Type:	(i) An inclined orifice type. (ii) Circular inside
	Diameter:	3.35 m
	Height:	3.35 m
9	<b>Penstock/ pressure shafts:</b>	Surface Penstock
	Type:	BQ plates
	Diameter & Length:	0.914 m,2157 m
10	<b>Power house:</b>	
	Type:	Semi underground power house
	Installed capacity (No of units x MW):	2 x 6MW
	Peaking capacity (during lean period, MW)	2.6MW
	Type of trubine:	Pelton wheel turbine
	Rated head (m):	E.L 13770.00 m
Rated discharge (cumecs)	4.7 cumecs	
11	<b>Tail race tunnel:</b>	
	Diameter, Shape:	Rectangular
	Length:	36.20mx2.20mx4.00m, River side orend:2.2m ht
	Minimum Tail water level:	0.45m ht (when turbine is use)(6MW)
12	<b>Switch yard:</b>	
	Type of switch gear:	SF6
	Number of generator base:	2 nos
	Number of bus coupler base:	1 nos
	Number of line base:	7 nos (feeder)

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Jali

<b>1</b>	<b>Location</b>	
	State/Distt	Sikkim/East
	River	Rongnichu
<b>2</b>	<b>Diversion Tunnel</b>	
	Size, shape	NA
	Length	NA
<b>3</b>	<b>Dam</b>	
	Type	NA
	Maximum dam height	NA
<b>4</b>	<b>Spillway</b>	
	Type	NA
	Crest level of spillway	NA
<b>5</b>	<b>Reservoir (Forebay tank)</b>	
	Full reservoir Level (FRL)	6.7m
	Minimum Draw Down Level (MDDL)	4.26m
	Live storage (MCM)	6.7m
<b>6</b>	<b>Desilting Arrangement</b>	
	Type	RCC
	Number and Size	4 (L X B) 51.8m X 8.22m
	Particle size to be removed (mm)	92.6m
<b>7</b>	<b>Head Race Tunnel</b>	
	Size and type	RCC 1.5mX1.21m
	Length	1.33km
	Design discharge (Cumes)	60 cu
<b>8</b>	<b>Surge Shaft</b>	
	Type	NA
	Diameter	NA
	Height	NA
<b>9</b>	<b>Penstock/Pressure shafts</b>	
	Type	Conduit MS pipe
	Diameter & Length	(int. & ext.dia 0.76m & 2.48m) & 171.60m
<b>10</b>	<b>Power House</b>	
	Type	Over ground run off river
	Installed capacity (No. Of units x MW)	2.1 MW (6X350kw)
	Peaking capacity during lean period (MW)	0.66
	Type of Turbine	Horizontal Francis
	Rated Head (M)	100M
	Rated Discharge	
<b>11</b>	<b>Tail Race Tunnel</b>	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
<b>12</b>	<b>Switchyard</b>	
	Type of Switch gear	Vaccum circiut breaker (440/11kv)
	No. Of generator bays	6
	No. Of Bus coupler bays	1
	No. Of line bays	1



## SALIENT FEATURES OF HYDROELECTRIC PROJECT

## Name of the Hydro Generating Station: Rimbi - I

1	<b>Location:</b>	
	State/ Distt.	Sikkim, West
	River:	Rimbi Khola
2	<b>Diversion Tunnel</b>	
	Size, Shape	Rectangular (20m length 4m breadth)
	Length	20m
3	<b>Dam:</b>	
	Type:	None
	Maximum Dam Height	None
4	<b>Spillway</b>	
	Type:	None
	Crest level of spillway:	None
5	<b>Reservoir</b>	Forebay Tank
	Full Reservoir Level (FRL):	1237.5m
	Minimum Draw Down Level (MDDL):	1142m
	Live storage (MCM):	45mX10mX5m
6	<b>Desilting Arrangement:</b>	
	Type:	3 chamber rectangular
	Number & Size	One
	Partical size to be removed (mm):	
7	<b>Head race tunnel:</b>	
	Size & Type	(2.15mX1.5m), rectangular
	Length:	1500m
	Design discharge (cumecs):	3.00
8	<b>Surge shaft:</b>	
	Type:	None
	Diameter:	
	Height:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	M.S pipe
	Diameter & Length:	Dia 472 mm (internal) for unit II & III, 555 mm for unit I, length 73.6m
10	<b>Power house:</b>	
	Type:	Surface RCC building
	Installed capacity (No of units x MW):	3 x 0.2 MW
	Peaking capacity (during lean period, MW)	60% of installed capacity
	Type of trubine:	Horizontal Francis
	Rated head (m):	74 m
	Rated discharge (cumecs)	3.0 cumecs
11	<b>Tail race tunnel:</b>	
	Diameter, Shape:	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	1179.5 m
12	<b>Switch yard:</b>	
	Type of switch gear:	Outdoor 12 pole arrangement
	Number of generator base:	3
	Number of bus coupler base:	1
	Number of line base:	5

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

## Name of the Hydro Generating Station: Rimbi - II

1	<b>Location:</b>	
	State/ Distt.	Sikkim, West
	River:	Rimbi Khola
2	<b>Diversion Tunnel</b>	
	Size, Shape	Rectangular (20mX4m)
	Length	20m
3	<b>Dam:</b>	
	Type:	None
	Maximum Dam Height	None
4	<b>Spillway</b>	
	Type:	None
	Crest level of spillway:	None
5	<b>Reservoir</b>	Forebay tank
	Full Reservoir Level (FRL):	1237.5 m
	Minimum Draw Down Level (MDDL):	1142 m
	Live storage (MCM):	45mX10mX5m
6	<b>Desilting Arrangement:</b>	
	Type:	Desilting basin
	Number & Size	2
	Particle size to be removed (mm)	
7	<b>Head race tunnel:</b>	
	Size & Type	Rectangular open channel
	Length:	1500m
	Design discharge (cumecs):	3.0
8	<b>Surge shaft:</b>	
	Type:	NA
	Diameter:	NA
	Height:	NA
9	<b>Penstock/ pressure shafts:</b>	
	Type:	MS Pipe
	Diameter & Length	0.85mm dia, 164 m length
10	<b>Power house:</b>	
	Type:	Surface RCC Building
	Installed capacity (No of units x MW):	2 x 0.5 MW
	Peaking capacity (during lean period, MW)	60% of installed capacity
	Type of trubine:	Horizontal Francis
	Rated head (m):	Gross-60/SNet-56.68
Rated discharge (cumecs)	3 cumecs	
11	<b>Tail race tunnel:</b>	
	Diameter, Shape	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	1179.5 m
12	<b>Switch yard:</b>	
	Type of switch gear:	Outdoor, 4 pole arrangement
	Number of generator base:	2
	Number of bus coupler base:	non-existent
Number of line base:	2 out-going bays	

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

**Name of the Hydro Generating Station: Rothak**

1	<b>Location:</b>	
	State/ Distt.	
	River:	
2	<b>Diversion Tunnel</b>	
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	
	Maximum Dam Height	
4	<b>Spillway</b>	
	Type:	
	Crest level of spillway:	
5	<b>Reservoir</b>	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	<b>Desilting Arrangement:</b>	
	Type:	
	Number & Size	
	Particle size to be removed (mm)	
7	<b>Head race tunnel:</b>	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	<b>Surge shaft:</b>	
	Type:	
	Diameter:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	
	Diameter & Length	
10	<b>Power house:</b>	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
11	<b>Tail race tunnel:</b>	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	<b>Switch yard:</b>	
	Type of switch gear:	
	Number of generator base:	
	Number of bus coupler base:	
	Number of line base:	

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Rongnichu

<b>1</b>	<b>Location</b>	
	State/Distt	Sikkim/East
	River	Rongnichu/Sangchu
<b>2</b>	<b>Diversion Tunnel</b>	
	Size, shape	NA
	Length	NA
<b>3</b>	<b>Dam</b>	
	Type	NA
	Maximum dam height	NA
<b>4</b>	<b>Spillway</b>	
	Type	NA
	Crest level of spillway	NA
<b>5</b>	<b>Reservoir (Forebay tank)</b>	
	Full reservoir Level (FRL)	3.5'X2 & 2.5'X1 (LXBXH)
	Minimum Draw Down Level (MDDL)	31'
	Live storage (MCM)	
<b>6</b>	<b>Desilting Arrangement</b>	
	Type	RCC
	Number and Size	4 (L X B) 170' X 27'
	Particle size to be removed (mm)	304
<b>7</b>	<b>Head Race Tunnel</b>	
	Size and type	Trapezoidal
	Length	1.267km
	Design discharge (Cumes)	
<b>8</b>	<b>Surge Shaft</b>	
	Type	NA
	Diameter	NA
	Height	NA
<b>9</b>	<b>Penstock/Pressure shafts</b>	
	Type	Conduit MS pipe
	Diameter & Length	(int. & ext.dia 3.5'X2 & 2.5'X1) 550'X3
<b>10</b>	<b>Power House</b>	
	Type	Over ground run off river
	Installed capacity (No. Of units x MW)	2.5 MW (5X500kw)
	Peaking capacity during lean period (MW)	
	Type of Turbine	Horizontal Francis
	Rated Head (M)	
	Rated Discharge	
<b>11</b>	<b>Tail Race Tunnel</b>	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
<b>12</b>	<b>Switchyard</b>	
	Type of Switch gear	3phase, AC synchronous
	No. Of generator bays	5
	No. Of Bus coupler bays	1
	No. Of line bays	2

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

**Name of the Hydro Generating Station: Chaten**

1	<b>Location:</b>	
	State/ Distt.	
	River:	
2	<b>Diversion Tunnel</b>	
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	
	Maximum Dam Height	
4	<b>Spillway</b>	
	Type:	
	Crest level of spillway:	
5	<b>Reservoir</b>	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	<b>Desilting Arrangement:</b>	
	Type:	
	Number & Size	
	Particle size to be removed (mm)	
7	<b>Head race tunnel:</b>	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	<b>Surge shaft:</b>	
	Type:	
	Diameter:	
	Height:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	
	Diameter & Length	
10	<b>Power house:</b>	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
Rated discharge (cumecs)		
11	<b>Tail race tunnel:</b>	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	<b>Switch yard:</b>	
	Type of switch gear:	
	Number of generator base:	
	Number of bus coupler base:	
	Number of line base:	

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Meyongchu

1	<b>Location:</b>	
	State/ Distt.	Sikkim/North
	River:	Meyongchu
2	<b>Diversion Tunnel</b>	N.A
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	Intake structure
	Maximum Dam Height	Drop type trench weir
4	<b>Spillway</b>	N.A
	Type:	
	Crest level of spillway:	
5	<b>Reservoir</b>	N.A
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	<b>Desilting Arrangement:</b>	
	Type:	Hooper type
	Number & Size	3 and 10mx7m
	Particle size to be removed (mm)	2mm
7	<b>Head race tunnel:</b>	Closed conduit
	Size & Type	1m & circular closed type
	Length:	1020m
	Design discharge (cumecs):	1.28 cumecs
8	<b>Surge shaft:</b>	
	Type:	circular
	Diameter:	4m
	Height:	14m
9	<b>Penstock/ pressure shafts:</b>	
	Type:	Circular Closed conduit
	Diameter & Length	720mm ID & 620m
10	<b>Power house:</b>	
	Type:	RCC
	Installed capacity (No of units x MW):	2x1.5MW
	Peaking capacity (during lean period, MW)	3MW
	Type of trubine:	Pelton
	Rated head (m):	322m
	Rated discharge (cumecs)	0.65/unit
11	<b>Tail race tunnel:</b>	Tail race open channel
	Diameter, Shape	Rectangular
	Length:	210m
	Minimum Tail water level:	2016.65
12	<b>Switch yard:</b>	
	Type of switch gear:	
	Number of generator base:	
	Number of bus coupler base:	
	Number of line base:	

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Upper Rongnichu

<b>1</b>	<b>Location</b>	
	State/Distt	Sikkim/East
	River	Rongnichu
<b>2</b>	<b>Diversion Tunnel</b>	
	Size, shape	NA
	Length	NA
<b>3</b>	<b>Dam</b>	
	Type	NA
	Maximum dam height	NA
<b>4</b>	<b>Spillway</b>	
	Type	NA
	Crest level of spillway	NA
<b>5</b>	<b>Reservoir (Forebay tank)</b>	
	Full reservoir Level (FRL)	86.0mX22.0m
	Minimum Draw Down Level (MDDL)	1.50m
	Live storage (MCM)	
<b>6</b>	<b>Desilting Arrangement</b>	
	Type	RCC
	Number and Size	(L X B) 60X40m
	Particle size to be removed (mm)	0.2mm
<b>7</b>	<b>Head Race Tunnel</b>	
	Size and type	Both open rectangular channel and M.S. closed conduit pipe
	Length	4565m
	Design discharge (Cumes)	10.50m <sup>3</sup> /s
<b>8</b>	<b>Surge Shaft</b>	
	Type	NA
	Diameter	NA
	Height	NA
<b>9</b>	<b>Penstock/Pressure shafts</b>	
	Type	ERW steel
	Diameter & Length	2 pipes of 1700mm dia with bifurcation into 4 pipes of 1200mm dia near power house
<b>10</b>	<b>Power House</b>	
	Type	Surface power house
	Installed capacity (No. Of units x MW)	8 MW (4 x 2000kw)
	Peaking capacity during lean period (MW)	NA
	Type of Turbine	Horizontal Francis
	Rated Head (M)	
	Rated Discharge	
<b>11</b>	<b>Tail Race Tunnel</b>	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
<b>12</b>	<b>Switchyard</b>	
	Type of Switch gear	MOCV (3.3/66kv)
	No. Of generator bays	4
	No. Of Bus coupler bays	1
	No. Of line bays	2

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

## Name of the Hydro Generating Station: Kalez

1	<b>Location:</b>	
	State/ Distt.	Sikkim, West
	River:	Kalej Khola
2	<b>Diversion Tunnel</b>	
	Size, Shape	Drop type trench weir (Rectangular)
	Length	12 m
3	<b>Dam:</b>	
	Type:	None
	Maximum Dam Height	None
4	<b>Spillway</b>	
	Type:	None
	Crest level of spillway:	None
5	<b>Reservoir</b>	Forebay tank
	Full Reservoir Level (FRL):	E1. 1593.15 m
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	40mX10mX5.5m
6	<b>Desilting Arrangement:</b>	
	Type:	3 chamber rectangular
	Number & Size	3
	Partical size to be removed (mm):	
7	<b>Head race tunnel:</b>	
	Size & Type	Rectangular, Open Channel & trapezoidal channel
	Length:	3500m
	Design discharge (cumecs):	1.72 cumsec
8	<b>Surge shaft:</b>	None
	Type:	
	Diameter:	
	Height:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	MS pipe
	Diameter & Length	0.95mm dia, 420 m
10	<b>Power house:</b>	
	Type:	Surface RCC building
	Installed capacity (No of units x MW):	2 x 1 MW
	Peaking capacity (during lean period, MW)	60% of Installed Capacity
	Type of trubine:	Horizontal Francis
	Rated head (m):	161.97 m
Rated discharge (cumecs)	0.85 cumecs	
11	<b>Tail race tunnel:</b>	
	Diameter, Shape	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	El: 1428.8 m
12	<b>Switch yard:</b>	
	Type of switch gear:	Outdoor 10 pole arrangement with DO & COs
	Number of generator base:	2
	Number of bus coupler base:	Non existent
Number of line base:	3 out-going bays, 1 incoming bays	



## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Lachung

1	<b>Location:</b>	
	State/ Distt.	
	River:	
2	<b>Diversion Tunnel</b>	
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	
	Maximum Dam Height	
4	<b>Spillway</b>	
	Type:	
	Crest level of spillway:	
5	<b>Reservoir</b>	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	<b>Desilting Arrangement:</b>	
	Type:	
	Number & Size	
	Partical size to be removed (mm):	
7	<b>Head race tunnel:</b>	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	<b>Surge shaft:</b>	
	Type:	
	Diameter:	
	Height:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	
	Diameter & Length	
10	<b>Power house:</b>	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
	Rated discharge (cumecs)	
11	<b>Tail race tunnel:</b>	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	<b>Switch yard:</b>	
	Type of switch gear:	
	Number of generator base:	
	Number of bus coupler base:	
	Number of line base:	

## SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Rabomchu

1	<b>Location:</b>	
	State/ Distt.	Sikkim/North
	River:	Rabomchu
2	<b>Diversion Tunnel</b>	N.A
	Size, Shape	
	Length	
3	<b>Dam:</b>	
	Type:	Intake structure
	Maximum Dam Height	Drop type trench weir
4	<b>Spillway</b>	N.A
	Type:	
	Crest level of spillway:	
5	<b>Reservoir</b>	N.A
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	<b>Desilting Arrangement:</b>	
	Type:	Hooper type
	Number & Size	4 and 15mx10m
	Partical size to be removed (mm):	2mm
7	<b>Head race tunnel:</b>	<b>open channel</b>
	Size & Type	1.5x1.83 Rectangular type
	Length:	564m
	Design discharge (cumecs):	1.70 cumecs
8	<b>Surge shaft:</b>	<b>Forebay</b>
	Type:	Rectangular
	Diameter:	25mx10mx6m
	Height:	
9	<b>Penstock/ pressure shafts:</b>	
	Type:	Circular Closed conduit
	Diameter & Length	810mm ID & 580m
10	<b>Power house:</b>	
	Type:	RCC
	Installed capacity (No of units x MW):	2x 2MW
	Peaking capacity (during lean period, MW)	2MW
	Type of trubine:	Pelton
	Rated head (m):	314m
	Rated discharge (cumecs)	0.85/unit
11	<b>Tail race tunnel:</b>	Tail race open channel
	Diameter, Shape	Rectangular
	Length:	16m
	Minimum Tail water level:	1272.6
12	<b>Switch yard:</b>	
	Type of switch gear:	
	Number of generator base:	
	Number of bus coupler base:	
	Number of line base:	

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: LLHP**

**Installed Capacity: 2x6 = 12 MW**

**Year : 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	3.355776	4.6608
2	May	6.463872	8.688
3	June	7.22736	10.038
4	July	8.3450016	11.2164
5	August	8.2610784	11.1036
6	September	8.111232	11.2656
7	October	7.182576	9.654
8	November	3.941568	5.4744
9	December	2.3560992	3.1668
10	January	1.8195264	2.4456
11	February	1.6539264	2.4612
12	March	1.9945152	2.6808
	<b>Total</b>	<b>60.7125312</b>	<b>82.8552</b>

**Year : 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	3.355776	4.6608
2	May	6.463872	8.688
3	June	7.22736	10.038
4	July	8.3450016	11.2164
5	August	8.2610784	11.1036
6	September	8.111232	11.2656
7	October	7.182576	9.654
8	November	3.941568	5.4744
9	December	2.3560992	3.1668
10	January	1.8195264	2.4456
11	February	1.6539264	2.4612
12	March	1.9945152	2.6808
	<b>Total</b>	<b>60.7125312</b>	<b>82.8552</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: LLHP**

**Installed Capacity: 2x6 = 12 MW**

**Year : 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	3.355776	4.6608
2	May	6.463872	8.688
3	June	7.22736	10.038
4	July	8.3450016	11.2164
5	August	8.2610784	11.1036
6	September	8.111232	11.2656
7	October	7.182576	9.654
8	November	3.941568	5.4744
9	December	2.3560992	3.1668
10	January	1.8195264	2.4456
11	February	1.6539264	2.4612
12	March	1.9945152	2.6808
	<b>Total</b>	<b>60.7125312</b>	<b>82.8552</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Jali**

**Installed Capacity: 6 x 0.35 = 2.1 MW**

**Year 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5873	0.8156
2	May	1.1312	1.5204
3	June	1.2648	1.7567
4	July	1.4604	1.9629
5	August	1.4457	1.9431
6	September	1.4195	1.9715
7	October	1.2570	1.6895
8	November	0.6898	0.9580
9	December	0.4123	0.5542
10	January	0.3184	0.4280
11	February	0.2894	0.4307
12	March	0.3490	0.4691
	<b>Total</b>	<b>10.6247</b>	<b>14.4997</b>

**Year 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5873	0.8156
2	May	1.1312	1.5204
3	June	1.2648	1.7567
4	July	1.4604	1.9629
5	August	1.4457	1.9431
6	September	1.4195	1.9715
7	October	1.2570	1.6895
8	November	0.6898	0.9580
9	December	0.4123	0.5542
10	January	0.3184	0.4280
11	February	0.2894	0.4307
12	March	0.3490	0.4691
	<b>Total</b>	<b>10.6247</b>	<b>14.4997</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Jali**

**Installed Capacity: 6 x 0.35 = 2.1 MW**

**Year 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5873	0.8156
2	May	1.1312	1.5204
3	June	1.2648	1.7567
4	July	1.4604	1.9629
5	August	1.4457	1.9431
6	September	1.4195	1.9715
7	October	1.2570	1.6895
8	November	0.6898	0.9580
9	December	0.4123	0.5542
10	January	0.3184	0.4280
11	February	0.2894	0.4307
12	March	0.3490	0.4691
	<b>Total</b>	<b>10.6247</b>	<b>14.4997</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rimbi Stage-I**

**Installed Capacity: 3x200 = 0.6 MW**

**Year 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.1678	0.2330
2	May	0.3232	0.4344
3	June	0.3614	0.5019
4	July	0.4173	0.5608
5	August	0.4131	0.5552
6	September	0.4056	0.5633
7	October	0.3591	0.4827
8	November	0.1971	0.2737
9	December	0.1178	0.1583
10	January	0.0910	0.1223
11	February	0.0827	0.1231
12	March	0.0997	0.1340
	<b>Total</b>	<b>3.0356</b>	<b>4.1428</b>

**Year 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.1678	0.2330
2	May	0.3232	0.4344
3	June	0.3614	0.5019
4	July	0.4173	0.5608
5	August	0.4131	0.5552
6	September	0.4056	0.5633
7	October	0.3591	0.4827
8	November	0.1971	0.2737
9	December	0.1178	0.1583
10	January	0.0910	0.1223
11	February	0.0827	0.1231
12	March	0.0997	0.1340
	<b>Total</b>	<b>3.0356</b>	<b>4.1428</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rimbi Stage-I**

**Installed Capacity: 3x200 = 0.6 MW**

**Year 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.1678	0.2330
2	May	0.3232	0.4344
3	June	0.3614	0.5019
4	July	0.4173	0.5608
5	August	0.4131	0.5552
6	September	0.4056	0.5633
7	October	0.3591	0.4827
8	November	0.1971	0.2737
9	December	0.1178	0.1583
10	January	0.0910	0.1223
11	February	0.0827	0.1231
12	March	0.0997	0.1340
	<b>Total</b>	<b>3.0356</b>	<b>4.1428</b>



**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rimbi Stage-II**

**Installed Capacity: 2 x 0.5 = 1 MW**

**Year 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.2796	0.3884
2	May	0.5387	0.7240
3	June	0.6023	0.8365
4	July	0.6954	0.9347
5	August	0.6884	0.9253
6	September	0.6759	0.9388
7	October	0.5985	0.8045
8	November	0.3285	0.4562
9	December	0.1963	0.2639
10	January	0.1516	0.2038
11	February	0.1378	0.2051
12	March	0.1662	0.2234
	<b>Total</b>	<b>5.0594</b>	<b>6.9046</b>

**Year 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.2796	0.3884
2	May	0.5387	0.7240
3	June	0.6023	0.8365
4	July	0.6954	0.9347
5	August	0.6884	0.9253
6	September	0.6759	0.9388
7	October	0.5985	0.8045
8	November	0.3285	0.4562
9	December	0.1963	0.2639
10	January	0.1516	0.2038
11	February	0.1378	0.2051
12	March	0.1662	0.2234
	<b>Total</b>	<b>5.0594</b>	<b>6.9046</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rimbi Stage-II**

**Installed Capacity: 2 x 0.5 = 1 MW**

**Year 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.2796	0.3884
2	May	0.5387	0.7240
3	June	0.6023	0.8365
4	July	0.6954	0.9347
5	August	0.6884	0.9253
6	September	0.6759	0.9388
7	October	0.5985	0.8045
8	November	0.3285	0.4562
9	December	0.1963	0.2639
10	January	0.1516	0.2038
11	February	0.1378	0.2051
12	March	0.1662	0.2234
	<b>Total</b>	<b>5.0594</b>	<b>6.9046</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rongnichu II**

**Installed Capacity: 5 X 0.5 = 2.5 MW**

**Year 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.6991	0.9710
2	May	1.3466	1.8100
3	June	1.5057	2.0913
4	July	1.7385	2.3368
5	August	1.7211	2.3133
6	September	1.6898	2.3470
7	October	1.4964	2.0113
8	November	0.8212	1.1405
9	December	0.4909	0.6598
10	January	0.3791	0.5095
11	February	0.3446	0.5128
12	March	0.4155	0.5585
	<b>Total</b>	<b>12.6484</b>	<b>17.2615</b>

**Year 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.6991	0.9710
2	May	1.3466	1.8100
3	June	1.5057	2.0913
4	July	1.7385	2.3368
5	August	1.7211	2.3133
6	September	1.6898	2.3470
7	October	1.4964	2.0113
8	November	0.8212	1.1405
9	December	0.4909	0.6598
10	January	0.3791	0.5095
11	February	0.3446	0.5128
12	March	0.4155	0.5585
	<b>Total</b>	<b>12.6484</b>	<b>17.2615</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rongnichu II**

**Installed Capacity: 5 X 0.5 = 2.5 MW**

**Year 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.6991	0.9710
2	May	1.3466	1.8100
3	June	1.5057	2.0913
4	July	1.7385	2.3368
5	August	1.7211	2.3133
6	September	1.6898	2.3470
7	October	1.4964	2.0113
8	November	0.8212	1.1405
9	December	0.4909	0.6598
10	January	0.3791	0.5095
11	February	0.3446	0.5128
12	March	0.4155	0.5585
	<b>Total</b>	<b>12.6484</b>	<b>17.2615</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

Name of the Hydro Generating Station: Meyong Chu

Installed Capacity: 2x2= 4 MW

Year : 2014-15

Sl. No	Month	Design Energy (MUs)	MW Continuous*
1	April	1.1186	1.5536
2	May	2.1546	2.8960
3	June	2.4091	3.3460
4	July	2.7817	3.7388
5	August	2.7537	3.7012
6	September	2.7037	3.7552
7	October	2.3942	3.2180
8	November	1.3139	1.8248
9	December	0.7854	1.0556
10	January	0.6065	0.8152
11	February	0.5513	0.8204
12	March	0.6648	0.8936
	Total	20.2375	27.6184

Year :2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
1	April	1.1186	1.5536
2	May	2.1546	2.896
3	June	2.4091	3.346
4	July	2.7817	3.7388
5	August	2.7537	3.7012
6	September	2.7037	3.7552
7	October	2.3942	3.218
8	November	1.3139	1.8248
9	December	0.7854	1.0556
10	January	0.6065	0.8152
11	February	0.5513	0.8204
12	March	0.6648	0.8936
	Total	20.2375	27.6184

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Meyong Chu**

**Installed Capacity: 2x2 = 4 MW**

**Year :2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	1.1186	1.5536
2	May	2.1546	2.896
3	June	2.4091	3.346
4	July	2.7817	3.7388
5	August	2.7537	3.7012
6	September	2.7037	3.7552
7	October	2.3942	3.218
8	November	1.3139	1.8248
9	December	0.7854	1.0556
10	January	0.6065	0.8152
11	February	0.5513	0.8204
12	March	0.6648	0.8936
	<b>Total</b>	<b>20.2375</b>	<b>27.6184</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Kalez**

**Installed Capacity: 2 x 1 = 2 MW**

**Year 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5593	0.7768
2	May	1.0773	1.4480
3	June	1.2046	1.6730
4	July	1.3908	1.8694
5	August	1.3768	1.8506
6	September	1.3519	1.8776
7	October	1.1971	1.6090
8	November	0.6569	0.9124
9	December	0.3927	0.5278
10	January	0.3033	0.4076
11	February	0.2757	0.4102
12	March	0.3324	0.4468
	Total	10.1188	13.8092

**Year 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5593	0.7768
2	May	1.0773	1.4480
3	June	1.2046	1.6730
4	July	1.3908	1.8694
5	August	1.3768	1.8506
6	September	1.3519	1.8776
7	October	1.1971	1.6090
8	November	0.6569	0.9124
9	December	0.3927	0.5278
10	January	0.3033	0.4076
11	February	0.2757	0.4102
12	March	0.3324	0.4468
	Total	10.1188	13.8092

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Kalez**

**Installed Capacity: 2 x 1 = 2 MW**

**Year 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.5593	0.7768
2	May	1.0773	1.4480
3	June	1.2046	1.6730
4	July	1.3908	1.8694
5	August	1.3768	1.8506
6	September	1.3519	1.8776
7	October	1.1971	1.6090
8	November	0.6569	0.9124
9	December	0.3927	0.5278
10	January	0.3033	0.4076
11	February	0.2757	0.4102
12	March	0.3324	0.4468
	<b>Total</b>	<b>10.1188</b>	<b>13.8092</b>



**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rabom Chu**

**Installed Capacity: 2x1.5 = 3 MW**

**Year: 2014-15**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.8389	1.1652
2	May	1.6160	2.172
3	June	1.8068	2.5095
4	July	2.0863	2.8041
5	August	2.0653	2.7759
6	September	2.0278	2.8164
7	October	1.7956	2.4135
8	November	0.9854	1.3686
9	December	0.5890	0.7917
10	January	0.4549	0.6114
11	February	0.4135	0.6153
12	March	0.4986	0.6702
	<b>Total</b>	<b>15.1781</b>	<b>20.7138</b>

**Year: 2015-16**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.8389	1.1652
2	May	1.6160	2.1720
3	June	1.8068	2.5095
4	July	2.0863	2.8041
5	August	2.0653	2.7759
6	September	2.0278	2.8164
7	October	1.7956	2.4135
8	November	0.9854	1.3686
9	December	0.5890	0.7917
10	January	0.4549	0.6114
11	February	0.4135	0.6153
12	March	0.4986	0.6702
	<b>Total</b>	<b>15.1781</b>	<b>20.7138</b>

**DESIGN ENERGY AND MW CONTINUOUS (Monthwise)  
- RUN OF RIVER TYPE STATIONS**

**Name of the Hydro Generating Station: Rabom Chu**

**Installed Capacity: 2x1.5 = 3 MW**

**Year: 2016-17**

<b>Sl. No</b>	<b>Month</b>	<b>Design Energy (MUs)</b>	<b>MW Continuous*</b>
1	April	0.8389	1.1652
2	May	1.6160	2.1720
3	June	1.8068	2.5095
4	July	2.0863	2.8041
5	August	2.0653	2.7759
6	September	2.0278	2.8164
7	October	1.7956	2.4135
8	November	0.9854	1.3686
9	December	0.5890	0.7917
10	January	0.4549	0.6114
11	February	0.4135	0.6153
12	March	0.4986	0.6702
	<b>Total</b>	<b>15.1781</b>	<b>20.7138</b>

**DESIGN ENERGY AND PEAKING CAPABILITY (Monthwise)  
- PONDAGE / STORAGE TYPE STATIONS**

Name of the Hydro Generating Station: \_\_\_\_\_

Installed Capacity: No. of Units X. MW =

Sl. No	Month	Design Energy (MUs)	MW Continuous
1	April	I	N/A
		II	
		III	
2	May	I	
		II	
		III	
3	June	I	
		II	
		III	
4	July	I	
		II	
		III	
5	August	I	
		II	
		III	
6	September	I	
		II	
		III	
7	October	I	
		II	
		III	
8	November	I	
		II	
		III	
9	December	I	
		II	
		III	
10	January	I	
		II	
		III	
11	February	I	
		II	
		III	
12	March	I	
		II	
		III	
	Total		

## ANNUAL REVENUE REQUIREMENT

Name of Generating Company : \_\_\_\_\_

Sl. No.	Particulars	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	Gross Generation (MU)			
2	Auxiliary Consumption (MU)			
3	Net Generation (MU)			
4	Free Energy to home state (MU)			
5	Royalty (Rs.)			
6	Water Charges (Rs.)			
7	Capacity Charges (Rs.)			
	a) Interest on Loan capital (Rs.)		N/A	
	b) Depreciation (Rs.)			
	c) Advance against depreciation (Rs.)			
	d) O&M Expenses (Rs.)			
	e) Interest on working capital (Rs.)			
	f) Foreign exchange Rate (%)			
	g) Return on Equity (%)			
	h) Income Taxes (Rs.)			
8	<b>Total fixed expenses (5+6+7)</b>			

**APPENDIX – C**

**FOR THE FY 2016-17**

## CONSUMER CATEGORY-WISE ENERGY SALES

Sl. No.	Category of Consumers	2014-15 (Actuals)		2015-16 (Estimated)		2016-17 (Projected)	
		No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)	No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)	No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)
1	2	3	4	5	6	7	8
1	<b>Domestic (DLT)</b>						
a)	Up to 50 units	87681	29.84	93572	33.80	95443	37.14
b)	51 to 100 units	58815	18.02	63574	20.22	67819	23.22
c)	101-200 units	15115	10.88	19789	12.88	21669	13.88
d)	201 to 400 units	9710	10.51	10201	11.51	11212	12.53
e)	401 & above	8856	9.68	9215	9.51	9521	9.95
	<b>Total</b>	<b>87681</b>	<b>78.93</b>	<b>93572</b>	<b>87.92</b>	<b>95443</b>	<b>96.72</b>
2	<b>Commercial (CLT)</b>						
a)	Up to 50 units	10449	6	10627	11	10840	8
b)	51 to 200 units	9221	8	9851	10	95316	9
c)	201 to 400 units	5521	11	6513	9	6041	13
d)	401 & above	1521	9	1752	9	1819	12
	<b>Total</b>	<b>10449</b>	<b>35.33</b>	<b>10627</b>	<b>38.86</b>	<b>10840</b>	<b>42.75</b>
3	<b>Public lighting</b>						
a)	Rural Areas	9	0.07	13	0.08	13	0
b)	Urban Areas	24	0.22	26	0.24	27	0
	<b>Total</b>	<b>33</b>	<b>0.29</b>	<b>39</b>	<b>0.32</b>	<b>40</b>	<b>0.35</b>
4	<b>Temporary</b>	-	<b>1.36</b>	-	<b>1.40</b>	-	<b>1.45</b>
5	<b>Industrial</b>						
A	HT						
	HT (AC) above 3.3 KV						
a)	Upto 100 KVA	152	40.48	158	47.85	160	51.18
b)	100 - 250 KVA	118	26.56	120	35.61	122	40.61
c)	250- 500 KVA		22.47	92	25.47	93	28.89
d)	500 KVA & above	38	20.98	40	23.67	42	25.18
	<b>Total HT</b>	<b>308</b>	<b>110.49</b>	<b>410</b>	<b>132.60</b>	<b>417</b>	<b>145.86</b>
B	LT (Rural)						
a)	Up to 500 units			195	0.21	200	0.22
b)	501 - 1000 units	184	0.66	130	0.19	133	0.21
c)	1001 & above			57	0.28	60	0.29
	<b>Total</b>	<b>184</b>	<b>0.66</b>	<b>195</b>	<b>0.69</b>	<b>200</b>	<b>0.72</b>
C	LT (Urban)						
a)	Up to 500 units			303	0.19	308	0.20

Sl. No.	Category of Consumers	2014-15 (Actuals)		2015-16 (Estimated)		2016-17 (Projected)	
		No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)	No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)	No. of Consumers at the end of the year (Nos.)	Energy Sale / Demand (MU)
1	2	3	4	5	6	7	8
b)	501 - 1000 units	272	0.71	123	0.27	126	0.28
c)	1001 & above			61	0.29	32	0.30
	<b>Total</b>	<b>272</b>	<b>0.71</b>	<b>303</b>	<b>0.75</b>	<b>308</b>	<b>0.78</b>
	<b>Total LT (B+C)</b>	<b>456</b>	<b>1.37</b>	<b>498</b>	<b>1.44</b>	<b>508</b>	<b>1.51</b>
	<b>Total Industrial (A+B+C)</b>	<b>764</b>	<b>111.86</b>	<b>908</b>	<b>134.04</b>	<b>925</b>	<b>147.37</b>
<b>6</b>	<b>Bulk supply</b>						
a)	LT	1269	20.98	1250	7.16	1275	7.83
b)	HT			295	15.23	303	15.68
	<b>Total</b>	<b>1269</b>	<b>20.98</b>	<b>1545</b>	<b>22.39</b>	<b>1578</b>	<b>23.51</b>
<b>10</b>	<b>Grand Total</b>	<b>100196</b>	<b>248.75</b>	<b>106691</b>	<b>284.93</b>	<b>108826</b>	<b>312.15</b>

## ENERGY BALANCE

(In MU)

Sl. No.	Item	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
<b>A</b>	<b>ENERGY REQUIREMENT</b>			
1	Energy Sales within the State	248.75	284.93	312.15
2	Sales Outside State (UI)	87.29	62.57	50.37
3	Sales to Common Pool Consumers	0.00	0.00	0.00
4	Sales to Electricity Traders	376.00	376.00	376.00
5	Sales to Other Distribution Licensees	0.00	0.00	0.00
6	<b>Total Sales</b>	<b>712.04</b>	<b>723.49</b>	<b>738.51</b>
7	Distribution Losses			
(i)	MU	140.00	131.03	117.84
(ii)	%	36.01	31.50	27.41
8	<b>Total Energy Requirement (6+7(i))</b>	<b>852.04</b>	<b>854.53</b>	<b>856.35</b>
<b>B</b>	<b>ENERGY AVAILABILITY</b>			
1	Net Generation (own)	6.80	8.00	10.00
2	Power Purchase from			
	a) Central Stations	401.67	401.67	401.67
	b) PTC	42.36	42.36	42.36
	c)(WBSEDCL)	51.20	51.20	51.20
	d) SPDC	17.03	17.03	17.03
	e) Free Power	337.65	337.65	337.65
	f) Others - (UI)	1.57	1.57	1.57
3	<b>Net Power Purchase (a+b+c+d+e+f)</b>	<b>851.48</b>	<b>851.48</b>	<b>851.48</b>
4	Less: Pool Loss	6.24	4.95	5.12
5	Energy available at State Periphery	845.24	846.53	846.35
6	<b>Total Energy Availability</b>	<b>852.04</b>	<b>854.53</b>	<b>856.35</b>



## Information regarding Distribution Loss and AT &amp; C Loss of Licensee

Sl. No	Particulars	Calculation	Unit	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projection)
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM	A	MU	6.80	8.00	10.00
2	Input energy (metered Import) received at interface points of DISCOM network	B	MU	381.96	407.97	420.00
3	Input energy (metered Export) by the DISCOM at interface point of DISCOM network	C	MU	0.00	0.00	0.00
4	Total energy available for sale within the licensed area to the consumers of the DISCOM	$D=A+B-C$	MU	388.76	415.97	430.00
5	Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	226.16	259.83	286.14
6	Energy billed to unmetered consumers within the licensed area of the DISCOM	F	MU	22.59	25.10	26.01
7	Total Energy Billed	$G=E+F$	MU	248.75	284.93	312.15
8	Amount billed to consumer within the licensed area of DISCOM	H	Rs.	117.47	129.43	141.92
9	Amount Realized by the DISCOM out of the amount Billed at HQ	I	Rs. Cr.	105.79	115.00	122.00
10	Collection efficiency (%) (=Revenue realized / Amount billed)	$J=(I/H) \times 100$	%	90	89	86
11	Energy realised by the DISCOM	$K=J \times G$	MU	224	253	268
12	Distribution Loss (%)	$L=\{(D-G)/D\} \times 100$	%	36.01	31.50	27.41
13	AT&C Loss (%)	$M=\{(D-K)/D\} \times 100$	%	42.38	39.14	37.60

**ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED  
FOR THE YEAR 2014-15**

In (MU)											
Sl. No.	Station	Capacity (MW)	Firm Allocation to		Gen. (MU)	PLF %	Aux. Cons.		Energy sent out	Firm Energy entitlement	Actual Utilised
1	2	3	4	5	6	7	8	9	10	11	12
<b>1</b>	<b>NTPC</b>										
	FSTPP	1600	1.63%	26 MW	0.00	0.00	0.00	0.00	0.00	0.00	114.16
	BSTPP	660	1.52%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	10.67
	KHSTPP-I	840	1.55%	13 MW	0.00	0.00	0.00	0.00	0.00	0.00	62.60
	KHSTPP-II	1500	0.33%	4.95 MW	0.00	0.00	0.00	0.00	0.00	0.00	20.81
	TSTPP	1000	2.40%	24 MW	0.00	0.00	0.00	0.00	0.00	0.00	157.71
<b>2</b>	<b>NHPC</b>										
	RANGIT-III	60	13.33%	8 MW	0.00	0.00	0.00	0.00	0.00	0.00	3.07
	TEESTA -V	510	13.19%	67 MW	0.00	0.00	0.00	0.00	0.00	0.00	32.65
<b>3</b>	<b>PTC</b>										
	CHUKHA	270	2.22%	6 MW	0.00	0.00	0.00	0.00	0.00	0.00	42.36
<b>4</b>	<b>Other sources</b>										
	WBSEDCL	50	20%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	51.20
	SPDC				0.00	0.00	0.00	0.00	0.00	0.00	17.03
	<b>Total</b>										<b>512.26</b>

**ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED  
FOR THE YEAR 2015-16**

In (MU)

Sl. No.	Station	Capacity (MW)	Firm Allocation to		Gen. (MU)	PLF %	Aux. Cons.		Energy sent out	Firm Energy entitlement	Actual Utilised
			4	5			8	9			
1	2	3	4	5	6	7	8	9	10	11	12
<b>1</b>	<b>NTPC</b>										
	FSTPP	1600	1.63%	26 MW	0.00	0.00	0.00	0.00	0.00	0.00	114.16
	BSTPP	660	1.52%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	10.67
	KHSTPP-I	840	1.55%	13 MW	0.00	0.00	0.00	0.00	0.00	0.00	62.60
	KHSTPP-II	1500	0.33%	4.95 MW	0.00	0.00	0.00	0.00	0.00	0.00	20.81
	TSTPP	1000	2.40%	24 MW	0.00	0.00	0.00	0.00	0.00	0.00	157.71
<b>2</b>	<b>NHPC</b>										
	RANGIT-III	60	13.33%	8 MW	0.00	0.00	0.00	0.00	0.00	0.00	3.07
	TEESTA -V	510	13.19%	67 MW	0.00	0.00	0.00	0.00	0.00	0.00	32.65
<b>3</b>	<b>PTC</b>										
	CHUKHA	270	2.22%	6 MW	0.00	0.00	0.00	0.00	0.00	0.00	42.36
<b>4</b>	<b>Other sources</b>										
	WBSEB	50	20%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	51.20
	SPDC				0.00	0.00	0.00	0.00	0.00	0.00	17.03
	<b>Total</b>										<b>512.26</b>

**ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED**  
For the year ended 2016-17

In (MU)											
Sl. No.	Station		Firm Allocation to		Gen. (MU)	PLF %	Aux. Cons.		Energy sent out	Firm Energy entitlement	Actual Utilised
1	2	3	4	5	6	7	8	9	10	11	12
<b>1</b>	<b>NTPC</b>		<b>%</b>	<b>MW</b>							
	FSTPP	1600	1.63%	26 MW	0.00	0.00	0.00	0.00	0.00	0.00	114.16
	BSTPP	660	1.52%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	10.67
	KHSTPP-I	840	1.55%	13 MW	0.00	0.00	0.00	0.00	0.00	0.00	62.60
	KHSTPP-II	1500	0.33%	4.95 MW	0.00	0.00	0.00	0.00	0.00	0.00	20.81
	TSTPP	1000	2.40%	24 MW	0.00	0.00	0.00	0.00	0.00	0.00	157.71
<b>2</b>	<b>NHPC</b>										
	RANGIT-III	60	13.33%	8 MW	0.00	0.00	0.00	0.00	0.00	0.00	3.07
	TEESTA -V	510	13.19%	67 MW	0.00	0.00	0.00	0.00	0.00	0.00	32.65
<b>3</b>	<b>PTC</b>										
	CHUKHA	270	2.22%	6 MW	0.00	0.00	0.00	0.00	0.00	0.00	42.36
<b>4</b>	<b>Other sources</b>										
	WBSEB	50	20%	10 MW	0.00	0.00	0.00	0.00	0.00	0.00	51.20
	SPDC				0.00	0.00	0.00	0.00	0.00	0.00	17.03
	<b>Total</b>										<b>512.26</b>

**POWER PURCHASE COST  
FOR THE YEAR-2014-15**

(Rs. in Crores)

Sl. No.	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost i/c supplementary bills (5+6+7)	Unit Cost (Rs. / KWH)
1	2	3	4	5	6	7	8	9
<b>1</b>	<b>NTPC</b>							
	FSTPP	114.16	0.00	33.43	14.99	2.54	50.96	4.46
	BSTPP	10.67	0.00	4.27	4.78	-0.39	8.66	8.11
	KHSTPP-I	62.60	0.00	16.32	8.44	-0.35	24.42	3.90
	KHSTPP-II	20.81	0.00	5.07	3.91	0.16	9.14	4.39
	TSTPP	157.71	0.00	23.85	14.04	0.62	38.51	2.44
<b>2</b>	<b>NHPC</b>							
	a) RANGIT-III	3.07	0.00	0.61	0.67	-0.01	1.27	4.15
	b)TEESTA -V	32.65	0.00	4.11	3.99	0.37	8.47	2.60
<b>3</b>	<b>Other sources</b>							
	a) PTC	42.36	0.00	0.00	0.00	6.56	6.56	1.55
	b)WBSEDCL	51.20	0.00	0.00	0.00	6.55	6.55	1.28
	c) SPDC	17.03	0.00	0.00	0.00	6.18	6.18	3.63
<b>4</b>	<b>Other Charges</b>							
	a) Transmission Charge	0.00	0.00	0.00	0.00	0.00	0.72	0.00
<b>5</b>	<b>UI Purchase</b>	1.57	0.00	0.00	0.00	0.00	1.31	8.37
	<b>Free Power</b>	337.65	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Rebate/ Other Charges</b>	0.00	0.00	0.00	0.00	0.00	-0.77	0.00
	<b>Total</b>	<b>851.48</b>		<b>87.67</b>	<b>50.83</b>	<b>22.22</b>	<b>161.99</b>	

**POWER PURCHASE COST  
FOR THE YEAR-2015-16**

(Rs. in Crores)

Sl. No.	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost i/c supplementary bills (5+6+7)	Unit Cost (Rs. / KWH)
1	2	3	4	5	6	7	8	9
<b>1</b>	<b>NTPC</b>							
	FSTPP	114.16	0.00	33.43	14.99	2.54	50.96	4.46
	BSTPP	10.67	0.00	4.27	4.78	-0.39	8.66	
	KHSTPP-I	62.60	0.00	16.32	8.44	-0.35	24.42	3.90
	KHSTPP-II	20.81	0.00	5.07	3.91	0.16	9.14	4.39
	TSTPP	157.71	0.00	23.85	14.04	0.62	38.51	2.44
<b>2</b>	<b>NHPC</b>							
	RANGIT-III	3.07	0.00	0.61	0.67	-0.01	1.27	4.15
	TEESTA -V	32.65	0.00	4.11	3.99	0.37	8.47	2.60
<b>3</b>	<b>Other sources</b>							
	a) PTC	42.36	0.00	0.00	0.00	6.56	6.56	1.55
	b)WBSEDCL	51.20	0.00	0.00	0.00	6.55	6.55	1.28
	c) SPDC	17.03	0.00	0.00	0.00	6.18	6.18	3.63
<b>4</b>	<b>Other Charges</b>							
	a) Transmission Charge	0.00	0.00	0.00	0.00	0.00	0.72	0.00
<b>5</b>	<b>UI Purchase</b>	1.57	0.00	0.00	0.00	0.00	1.31	8.37
	<b>Free Power</b>	337.65	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Rebate/ Other Charges</b>	0.00	0.00	0.00	0.00	0.00	-0.77	0.00
	<b>Total</b>	<b>851.48</b>		<b>87.67</b>	<b>50.83</b>	<b>22.22</b>	<b>161.99</b>	

**POWER PURCHASE COST  
FOR THE YEAR-2016-17**

(Rs. in Crores)

Sl. No.	Source	Energy received (MU)	Variable Cost (Ps. / Unit)	Total Variable Cost	Total Fixed Cost	Others	Total Cost i/c supplementary bills (5+6+7)	Unit Cost (Rs. / KWH)
1	2	3	4	5	6	7	8	9
<b>1</b>	<b>NTPC</b>							
	FSTPP	114.16	0.00	33.43	14.99	2.54	50.96	4.46
	BSTPP	10.67	0.00	4.27	4.78	-0.39	8.66	
	KHSTPP-I	62.60	0.00	16.32	8.44	-0.35	24.42	3.90
	KHSTPP-II	20.81	0.00	5.07	3.91	0.16	9.14	4.39
	TSTPP	157.71	0.00	23.85	14.04	0.62	38.51	2.44
<b>2</b>	<b>NHPC</b>							
	RANGIT-III	3.07	0.00	0.61	0.67	-0.01	1.27	4.15
	TEESTA -V	32.65	0.00	4.11	3.99	0.37	8.47	2.60
<b>3</b>	<b>Other sources</b>							
	PTC	42.36	0.00	0.00	0.00	6.56	6.56	1.55
	WBSEDCL	51.20	0.00	0.00	0.00	6.55	6.55	1.28
	SPDC	17.03	0.00	0.00	0.00	6.18	6.18	3.63
<b>4</b>	<b>Other Charges</b>							
	Transmission Charge	0.00	0.00	0.00	0.00	0.00	0.72	0.00
<b>5</b>	<b>UI Purchase</b>	1.57	0.00	0.00	0.00	0.00	1.31	8.37
	Free Power	337.65	0.00	0.00	0.00	0.00	0.00	0.00
	Rebate/ Other Charges	0.00	0.00	0.00	0.00	0.00	-0.77	0.00
	<b>Total</b>	<b>851.48</b>		<b>87.67</b>	<b>50.83</b>	<b>22.22</b>	<b>161.99</b>	

## NON TARIFF INCOME

(Rs. in crores)

Sl. No.	Particulars	2014-15 (Actuals)	2015-2016 (Estimted)	2016-17 (Projected)
1	2	3	4	5
1	Meter / Service Rent	0.49	0.50	0.51
2	Late Payment Surcharge	0.31	0.32	0.32
3	Theft / Pilferage of Energy Charges	0.04	0.04	0.04
4	Misc. Receipts	0.00	0.00	0.01
5	Misc. Charges	0.06	0.06	0.06
6	Wheeling Charges	0.00	0.00	0.00
7	Interest on Staff Loans & Advance	0.00	0.00	0.00
8	Income from Trading	0.00	0.00	0.00
9	Income from Welfare Activities	0.00	0.00	0.00
10	Excess on Verification	0.00	0.00	0.00
11	Investments & Bank Balances	0.00	0.00	0.00
<b>12</b>	<b>Total Income</b>	<b>0.90</b>	<b>0.92</b>	<b>0.94</b>
13	Add Prior Period Income	0.00	0.00	0.00
<b>14</b>	<b>Total</b>	<b>0.90</b>	<b>0.92</b>	<b>0.94</b>



**BAD AND DOUBTFUL DEBTS  
FOR THE YEAR 2016-17**

(Rs. in Crores)

Sl. No.	Particulars	Amount
<b>1</b>	<b>2</b>	<b>3</b>
1	Amount of receivable bad and doubtful debts (audited)	NA
2	Provision made for debts in ARR	

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ANNUAL REVENUE REQUIREMENT

(₹ in Crores)

Sl. No.	Item of expenditure	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
1	Cost of Fuel	0.17	0.15	0.15
2	Cost of Power Purchase	161.99	161.99	161.99
3	Employee Costs	74.98	96.86	98.70
4	R&M Expenses	24.66	24.05	25.26
5	Adm. & Gen. Expenses	2.12	2.37	2.53
6	Depreciation	24.18	26.38	31.32
7	Interest Charges	87.63	86.70	87.26
8	Interest on Working Capital	4.14	4.81	5.09
9	Return on Equity	37.45	40.63	44.56
10	Income Tax	0.00	0.00	0.00
11	<b>Total Revenue Requirement</b>	<b>417.31</b>	<b>443.95</b>	<b>456.87</b>
12	Less: Non Tariff Income	0.90	0.92	0.94
13	<b>Net Revenue Requirement (11-12)</b>	<b>416.41</b>	<b>443.03</b>	<b>455.93</b>
14	Revenue from Tariff	117.48	134.21	143.93
15	Revenue from Outside State Sale	135.21	132.29	130.85
16	ś	163.72	176.53	181.15
17	Gap for FY 2013-14	-	0.00	-
	Gap for FY 2014-15	-	0.00	-
18	<b>Total gap (16+17+18)</b>	<b>163.72</b>	<b>176.53</b>	<b>181.15</b>
19	Revenue Surplus Carried over	0.00	0.00	0.00
20	Additional revenue from proposed tariff	0.00	0.00	10.66
21	Regulatory Asset	0.00	0.00	0.00
22	<b>Energy Sales (MU)</b>	<b>248.75</b>	<b>284.93</b>	<b>312.15</b>

**APPENDIX – D**

**FOR THE FY 2016-17**

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**EMPLOYEE COST**

(Rs. in Crores)

Sl. No.	Particulars	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
	<b>SALARIES &amp; ALLOWANCES</b>			
1	Basic Pay	31.84	38.19	39.00
2	Dearness Pay	0.00	0.00	0.00
3	Dearness Allowance	34.08	46.97	47.50
4	House Rent Allowance	4.78	5.73	5.90
5	Fixed Medical Allowance	3.18	3.82	3.85
6	Medical Reimbursement Charges	0.87	1.50	1.65
7	Over Time Payment	0.00	0.00	0.00
8	High Altitude Allowance	0.030	0.150	0.150
a)	Spl. Border Compensatory Allowance	0.00	0.00	0.00
9	Generation Incentive	0.00	0.00	0.00
10	Bonus	0.00	0.00	0.00
11	<b>Sub-Total</b>	<b>74.78</b>	<b>96.36</b>	<b>98.05</b>
	<b>Terminal Benefits</b>			
12	Leave Encashment	0.20	0.50	0.65
13	Gratuity	0.00	0.00	0.00
14	Commutation of Pension	0.00	0.00	0.00
15	Workman Compensation	0.00	0.00	0.00
16	Ex- gratia	0.00	0.00	0.00
17	<b>Sub-Total</b>	<b>0.20</b>	<b>0.50</b>	<b>0.65</b>
	<b>Pension Payment</b>			
18	Basic Pension	0.000	0.000	0.000
19	Dearness Pension	0.000	0.000	0.000
20	Dearness Allowance	0.000	0.000	0.000
21	Any Other Expenses (Medical)	0.000	0.000	0.000
22	<b>Sub-Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
23	<b>Total (11+17+22)</b>	<b>74.98</b>	<b>96.86</b>	<b>98.70</b>
24	Amount Capitalised	0.00	0.00	0.00
25	Net Amount	<b>74.98</b>	<b>96.86</b>	<b>98.70</b>
26	Add Prior Period Expenses	0.00	0.000	0.000
27	Grand Total	<b>74.98</b>	<b>96.86</b>	<b>98.70</b>

**TOTAL NUMBER OF EMPLOYEES (Regular/Work Charge/Adhoc/MR)**

<b>Sl. No.</b>	<b>Particulars</b>	<b>2014-15 (Actuals)</b>	<b>2015-16 (Estimated)</b>	<b>2016-17 (Projected)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Number of employees as on 1st April	3767	3820	3920
2	Number of employees on deputation / foreign service as on 1st April	0	0	0
3	Total Number of employees (1+2)	3767	3820	3920
4	Number of employees retired / retiring during the year	32	29	48
5	Number of appointments during the year	85	129	24
6	Number of employees at the end of the year (3-4)	3820	3920	3896

## EMPLOYEES PRODUCTIVE PARAMETERS

<b>Sl. No.</b>	<b>Particulars</b>	<b>2014-15 (Actuals)</b>	<b>2015-16 (Estimated)</b>	<b>2016-17 (Projected)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Number of Consumers	100276.00	106691.00	108826.00
2	Connected Load in kW	126745.01	126745.01	126745.01
3	Line circuit in KM (LT+HT)	17518.20	17518.20	17518.20
4	Energy Sold in MU	248.75	284.93	312.15
5	Employees per MU of energy sold	15.36	13.76	12.48
6	Employees per 1000 consumers	38.09	36.74	35.80
7	Share of Employees Cost in Total Expenses	74.98	96.86	98.70
8	Employees Cost in paise / kWh of Energy Sold	301.42	339.95	316.20
9	Line circuit KM (EHT Lines)	104.61	104.61	104.61
10	Employees per KM of EHT line	36.52	37.47	37.24
11	Power station installed capacity own generation (MW)	41.59	41.59	41.59
12	Employees per MW of capacity	91.85	94.25	93.68

## REPAIRS AND MAINTENANCE EXPENSES

(₹ in Crores)

Sl. No.	Particulars	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
1	Plant & Machinery			
	-Plant and Apparatus			
	-EHV Sub-stations			
	- 33 kV Sub-stations			
	- 11 kV Sub-stations	0.00	0.00	0.00
	-Switch Gear and Cable Connections			
	- Others			
	-Diesel Power Stations			
	<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
2	Building	0.82	0.93	0.95
3	Hydraulic Works & Civil Works	0.00	0.00	0.00
4	Line cable & Network			
	- EHV Lines			
	-33 kV Lines			
	-11 kV Lines	0.00	0.00	0.00
	-LT Lines			
	-Meters and metering equipment	0.00	0.00	0.00
	-Others	0.00	0.00	0.00
	<b>Total</b>	<b>17.95</b>	<b>17.49</b>	<b>18.40</b>
5	Vehicles	0.43	0.43	0.45
6	Furniture & Fixtures	0.17	0.16	0.17
7	Office Equipments	0.00	0.00	0.00
8	Operating Expenses	1.37	0.96	1.20
9	<b>Total</b>	<b>24.66</b>	<b>1.55</b>	<b>1.82</b>
10	Add / Deduct share of other (To be specified)	0.00	0.00	0.00
11	<b>Total Expenses</b>	<b>24.66</b>	<b>24.05</b>	<b>25.26</b>
12	Less Capitalized	0.00	0.00	0.00
13	<b>Net Expenses</b>	24.66	24.05	25.26
14	Add Prior Period	0.00	0.00	0.00
15	<b>Total Expenses Charged to Revenue as R&amp;M Expenses</b>	<b>24.66</b>	<b>24.05</b>	<b>25.26</b>

## ADMINISTRATION AND GENERAL EXPENSES

(Rs. in Crores)

Sl. No.	Particulars	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
1	Rent, Rates & Taxes	0.00	0.00	0.00
2	Insurance	0.00	0.00	0.00
3	Telephone, Postage & Telegrams	0.06	0.06	0.06
4	Consultancy Fees	0.00	0.00	0.00
5	Technical Fees	0.00	0.00	0.00
6	Other Professional Charges	0.15	0.15	0.15
7	Conveyance & Travel Expenses	0.21	0.21	0.22
8	Electricity & Water Charges	0.10	0.10	0.10
9	Others	1.60	1.85	2.00
10	Freight	0.00	0.00	0.00
11	Other Material related Expenses	0.00	0.00	0.00
<b>12</b>	<b>Total Expenses</b>	<b>2.12</b>	<b>2.37</b>	<b>2.53</b>
13	Less Capitalised	0.00	0.00	0.00
<b>14</b>	<b>Net expenses</b>	<b>2.12</b>	<b>2.37</b>	<b>2.53</b>
15	Add Prior period	0.00	0.00	0.00
<b>16</b>	<b>Total Expenses Charged to Revenue</b>	<b>2.12</b>	<b>2.37</b>	<b>2.53</b>



## VALUE OF ASSETS AND DEPRECIATION 2014-15

(Rs. Crores)

Sl. No.	Name of the Asset	Value of Assets at the beginning of the year	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Plant & Machinery	562.11	59.23	0.00	621.34	5.28	21.84
2	Buildings	242.30	8.84	0.00	251.14	3.34	2.25
3	Furniture & Fittings	1.36	0.52	0.00	1.88	6.33	0.08
<b>Total</b>		<b>805.78</b>	<b>68.59</b>	<b>0.00</b>	<b>874.37</b>		<b>24.18</b>

## VALUE OF ASSETS AND DEPRECIATION 2015-16

(Rs. Crores)

Sl. No.	Name of the Asset	Value of Assets at the beginning of the year	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Plant & Machinery	621.34	83.179898	0.00	704.52	5.28	24.04
2	Buildings	251.14	0.00	0.00	251.14	3.34	2.25
3	Furniture & Fittings	1.88	0.00	0.00	1.88	6.33	0.08
<b>Total</b>		<b>874.37</b>	<b>83.18</b>	<b>0.00</b>	<b>957.55</b>		<b>26.38</b>

## VALUE OF ASSETS AND DEPRECIATION 2016-17

(Rs. Crores)

Sl. No.	Name of the Asset	Value of Assets at the beginning of the year	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Plant & Machinery	704.52	104.01	0.00	808.53	5.28	28.98
2	Buildings	251.14	0.00	0.00	251.14	3.34	2.25
3	Furniture & Fittings	1.88	0.00	0.00	1.88	6.33	0.08
<b>Total</b>		<b>957.55</b>	<b>104.01</b>	<b>0.00</b>	<b>1061.56</b>		<b>31.32</b>

## DETAILS OF LOANS FOR THE YEAR 2014-15

(Rs. in Crores)

Sl. No.	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
2	Non SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
3	LIC	0.00	0.00	0.00	0.00	0.00	0.00
4	REC	0.00	0.00	0.00	0.00	0.00	0.00
5	Commercial Banks	0.00	0.00	0.00	0.00	0.00	0.00
6	Bills discounting	0.00	0.00	0.00	0.00	0.00	0.00
7	Lease rental	0.00	0.00	0.00	0.00	0.00	0.00
8	PFC	0.00	0.00	0.00	0.00	0.00	0.00
9	GPF	0.00	0.00	0.00	0.00	0.00	0.00
10	CSS	0.00	0.00	0.00	0.00	0.00	0.00
11	Working capital loan	0.00	0.00	0.00	0.00	0.00	0.00
12	Others (details to be given)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Total</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
14	Add State Govt. Loan	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	<b>Total (13 +14)</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
16	Less capitalisation						0.00
<b>17</b>	<b>Net Interest</b>						<b>0.00</b>
18	Add prior period						0.00
<b>19</b>	<b>Total Interest</b>						<b>0.00</b>
20	Finance charges						0.00
<b>21</b>	<b>Total Interest and finance charges</b>						<b>0.00</b>

## DETAILS OF LOANS FOR THE YEAR 2015-16

(Rs. in Crores)

Sl. No.	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
2	Non SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
3	LIC	0.00	0.00	0.00	0.00	0.00	0.00
4	REC	0.00	0.00	0.00	0.00	0.00	0.00
5	Commercial Banks	0.00	0.00	0.00	0.00	0.00	0.00
6	Bills discounting	0.00	0.00	0.00	0.00	0.00	0.00
7	Lease rental	0.00	0.00	0.00	0.00	0.00	0.00
8	PFC	0.00	0.00	0.00	0.00	0.00	0.00
9	GPF	0.00	0.00	0.00	0.00	0.00	0.00
10	CSS	0.00	0.00	0.00	0.00	0.00	0.00
11	Working capital loan	0.00	0.00	0.00	0.00	0.00	0.00
12	Others (details to be given)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Total</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
14	Add State Govt. Loan	0.00	0.00	0.00	0.00	0.00	0.00
<b>15</b>	<b>Total (13 +14)</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
16	Less capitalisation						0.00
<b>17</b>	<b>Net Interest</b>						<b>0.00</b>
18	Add prior period						0.00
<b>19</b>	<b>Total Interest</b>						<b>0.00</b>
20	Finance charges						0.00
<b>21</b>	<b>Total Interest and finance charges</b>						<b>0.00</b>

## DETAILS OF LOANS FOR THE YEAR 2016-17

(Rs. in Crores)

Sl. No.	Particulars	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
2	Non SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00
3	LIC	0.00	0.00	0.00	0.00	0.00	0.00
4	REC	0.00	0.00	0.00	0.00	0.00	0.00
5	Commercial Banks	0.00	0.00	0.00	0.00	0.00	0.00
6	Bills discounting	0.00	0.00	0.00	0.00	0.00	0.00
7	Lease rental	0.00	0.00	0.00	0.00	0.00	0.00
8	PFC	0.00	0.00	0.00	0.00	0.00	0.00
9	GPF	0.00	0.00	0.00	0.00	0.00	0.00
10	CSS	0.00	0.00	0.00	0.00	0.00	0.00
11	Working capital loan	0.00	0.00	0.00	0.00	0.00	0.00
12	Others (details to be given)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Total</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
14	Add State Govt. Loan	0.00		0.00	0.00	0.00	0.00
<b>15</b>	<b>Total (13 +14)</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
16	Less capitalisation						0.00
<b>17</b>	<b>Net Interest</b>						<b>0.00</b>
18	Add prior period						0.00
<b>19</b>	<b>Total Interest</b>						<b>0.00</b>
20	Finance charges						0.00
<b>21</b>	<b>Total Interest and finance charges</b>						<b>0.00</b>

## INTEREST CAPITALISED

(Rs. In Crores)

Sl. No.	Interest Capitalized	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
1	WIP	29.80	36.14	45.19
2	GFA at the end of the year	925.86	1009.04	1061.56
3	WIP+GFA at the end of the year	955.66	1045.18	1106.75
4	Interest (Excluding interest on WCL)	0.00	0.00	0.00
5	Interest Capitalised	0.00	0.00	0.00

**INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE  
YEAR 2016-17**

(Rs. In Crores)

<b>Sl. No.</b>	<b>Source of Loan</b>	<b>Amount of Original Loan</b>	<b>Old Rate of Interest (%)</b>	<b>Amount Already Restructured</b>	<b>Revised Rate of Interest (%)</b>	<b>Amount Now Being Restructured</b>	<b>New Rate of Interest (%)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Not Applicable							

**INFORMATION REGARDING REVENUE FROM  
OTHER BUSINESS FOR THE YEAR 2016-17**

(Rs. In Crores)

Sl. No.	Particulars	Amount
1	2	3
1	Total Revenue from other business	NA
2	Income from other business to be considered for licenses business as per regulations	

**INFORMATION REGARDING WORKING CAPITAL FOR  
THE CURRENT & ENSUING YEAR**

(Rs. In Crores)

Sl. No.	Particulars	2015-16	2016-17
1	2	3	4
1	One month Employees Cost	8.07	8.23
2	One month Administration & General Expenses	0.20	0.21
3	One month R&M Cost	2.00	2.11
4	Maintenance Spares	0.00	0.00
5	Two Months Receivables	22.37	23.99
<b>6</b>	<b>Total</b>	<b>32.64</b>	<b>34.53</b>
<b>7</b>	<b>Interest on Working Capital @ 14.75%</b>	<b>4.81</b>	<b>5.09</b>



**INFORMATION REGARDING FOREIGN EXCHANGE RATE**

**(Rs. in Crores)**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount</b>
<b>1</b>	<b>2</b>	<b>3</b>
1	Amount of liability provided	NA
2	Amount recovered	
3	Amount adjusted	

## INFORMATION REGARDING WHOLESALE PRICE INDEX

<b>Sl. No.</b>	<b>Period</b>	<b>WPI</b>	<b>Increase Over Previous Year</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1	As on April 1 of 2014-15	180.80	9.50
2	As on April 1 of 2015-16	176.40	-4.40
3	As on April 1 of 2016-17	0.00	0.00

2015-16

## A. ESTIMATED REVENUE AT EXISTING TARIFF (LT)

Sl. No	Category	Connected Load (KW)	Fixed Charges per KW (Rs.)	Total Fixed Charges (Rs. in Crores)	Slab in the Category	Sale in each Slab (MU)	Existing Tariff Rate (Paise per Kwh)	Amount (in Crores)	Total amount for the category (Crores)	Average tariff for the year (Rs. per Kwhr)
<b>1</b>	<b>Domestic</b>									
					Up to 50 units	37.14	110.00	4.09		
					51 to 100 units	23.22	225.00	5.22		
					101-200 units	13.88	345.00	4.79		
					201 to 400 units	12.53	415.00	5.20		
					401 & above	9.95	440.00	4.38		
	<b>Total</b>					<b>96.72</b>			<b>23.68</b>	<b>2.45</b>
<b>2</b>	<b>Commercial</b>									
					Up to 50 units	8.14	315.00	2.56		
					51 to 200 units	9.08	490.00	4.45		
					201 to 400 units	13.17	515.00	6.78		
					401 & above	12.36	540.00	6.67		
	<b>Total</b>					<b>42.75</b>			<b>20.47</b>	<b>4.79</b>
<b>3</b>	<b>Public lighting</b>									
					Rural Areas	0.09	250.00	0.02		
					Urban Areas	0.26	460.00	0.12		
	<b>Total</b>					<b>0.35</b>			<b>0.14</b>	<b>4.06</b>
<b>4</b>	<b>Temporary</b>					<b>1.450</b>			<b>1.05</b>	<b>7.24</b>
<b>5 a)</b>	<b>Industrial LT (Rural)</b>									
				0.05	Up to 500 units	0.22	235.00	0.10		
				0.05	501 - 1000 units	0.21	420.00	0.13		
				0.05	1001 & above	0.29	545.00	0.21		
	<b>Total</b>					<b>0.72</b>			<b>0.44</b>	
<b>5 b)</b>	<b>Industrial LT (Urban)</b>									
				0.012	Up to 500 units	0.20	480.00	0.11		

Sl. No	Category	Connected Load (KW)	Fixed Charges per KW (Rs.)	Total Fixed Charges (Rs. in Crores)	Slab in the Category	Sale in each Slab (MU)	Existing Tariff Rate (Paise per Kwh)	Amount (in Crores)	Total amount for the category (Crores)	Average tariff for the year (Rs. per Kwhr)
				0.012	501 - 1000 units	0.28	550.00	0.16		
				0.012	1001 & above	0.30	620.00	0.20		
	<b>Total</b>					<b>0.78</b>			<b>0.47</b>	
	<b>Industrial LT Total</b>					<b>1.51</b>			<b>0.91</b>	<b>6.06</b>
	<b>Total (LT)</b>								<b>46.25</b>	

**B. ESTIMATED REVENUE AT EXISTING TARIFF (HT)**

Sl. No	Category	Contract Demand (kVA)	Billing Demand (KVA)	Sale of Energy (MU)	Fixed Charge (Rs / kVA)	Energy Charges (Paise / kWh)	Total Fixed Charges (Rs.Crores)	Total Energy Charges (Rs. Crores)	Grand Total Amount for the Category (Rs. Crores)	Average Tariff for the year (Rs./Kwh)
<b>6</b>	<b>Industrial HT</b>									
	HT (AC) above 3.3 KV									
	Upto 100 KVA	16700		51.18	175	300.00	3.51	15.35	18.86	
	100 - 250 KVA	12300		40.61	225	348.00	3.32	14.13	17.45	
	250 KVA - 500 KVA	25800		28.89	250	396.00	7.74	11.44	19.18	
	500 KVA & above	33000		25.18	475	410.00	18.81	10.32	29.13	
	<b>Total</b>			<b>145.86</b>					<b>84.63</b>	
<b>7</b>	<b>Bulk supply</b>									
	HT + LT	210		23.51					<b>13.05</b>	
<b>8</b>	<b>Total (HT)</b>								<b>97.67</b>	
<b>9</b>	<b>Total (LT)</b>								<b>46.25</b>	
<b>10</b>	<b>Total (LT+HT)</b>								<b>143.93</b>	

## C. ESTIMATED REVENUE AT EXISTING TARIFF

Sl. No.	Category	Contract Demand (KVA)	Billing Demand (KVA)	Sale of Energy (MU)	Existing Tariff	Total Amount for the year (Crores.)	Total Amount for the category (Crores.)	Average Tariff for the year (Paise / kwhr)
1					FC in Rs. per KVA			
2					EC in paise per Kwhr			
3								
4								
5								
6	<b>Total (LT+HT+ EHT)</b>							

**D. ESTIMATED REVENUE AT EXISTING TARIFF**

Sl. No.	Category	Contract Demand (KVA)	Billing Demand (KVA)	Sale of Energy (MU)	Existing Tariff	Total amount for the year (Crores)	Total amount for the category (Crores)	Average Tariff for the Year (Paise/kwhr)
1					FC in Rs. per KVA			
2					EC in paise per Kwhr			
3								
4								
5								
6	<b>Grand Total</b>							

## Investment Plan (Scheme - wise)

(Rs. in Crores)

Sl. No.	Name of Scheme/ Project	Approved Outlay	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)	Progressive Expenditure upto Ensuing Year
1	2	3	4	5	6	7
1	Schemes sanctioned under MDs	14.44	2.26	0.00	0.00	-
2	Schemes sanctioned under Building/ upgradation of Transformers	0.00	0.00	0.00	0.00	-
3	MNRE	15.41	0.46	1.60	3.50	-
4	State Share of MNRE	3.53	0.04	0.00	0.20	-
5	NEC Schemes	15.88	7.00	25.69	14.00	-
6	State Share of NEC/NLCPR Schemes	58.86	5.07	0.00	4.00	-
7	NLCPR Schemes	214.49	9.56	61.90	79.94	-
8	Schemes under CMs 42 days tour prog.	0.00	0.00	0.00	0.00	-
9	Schemes under SPA	0.00	0.20	0.00	0.34	-
10	State share of SPA	0.00	0.10	0.33	0.10	-
11	RGGVY	5.90	1.81	0.00	3.90	-
12	State Share of RGGVY	0.00	0.00	0.00	0.00	-
13	R-APDRP	14.21	4.00	0.00	0.00	-
14	State share of R-APDRP	0.00	0.00	0.00	0.00	-
15	Schemes under TSP/SCSP	0.00	1.03	0.00	1.03	-
16	Land compensation	0.00	0.23	0.00	2.00	-
17	APDRP	18.45	0.00	0.00	4.05	-
18	Others	0.00	0.90	0.00	0.00	-
	<b>Total</b>		<b>32.66</b>	<b>89.52</b>	<b>113.06</b>	-



## Investment Plan (Year - wise)

(Rs. in Crores)

<b>Sl. No.</b>	<b>Year</b>	<b>Originally proposed by the Utility</b>	<b>Approved by the Commission</b>	<b>Revised by the Utility</b>	<b>Revised Approval by the Commission in review</b>	<b>Actual Expenditure</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	2014-15	138.98	125.28	63.30	63.30	32.66
2	2015-16	250.74	250.74	89.52	0.00	0.00
3	2016-17	113.06	0.00	0.00	0.00	0.00

## WORKS-IN-PROGRESS

(Rs. in Crores)

Sl. No.	Particulars	2014-15 (Actuals)	2015-16 (Estimated)	2016-17 (Projected)
1	2	3	4	5
1	Opening Balance	65.73	29.80	36.14
2	Add: New Investments	32.66	89.52	113.06
<b>3</b>	<b>Total</b>	<b>98.39</b>	<b>119.32</b>	<b>149.20</b>
4	Less Investment Capitalised	68.59	83.18	104.01
<b>5</b>	<b>Closing Balance</b>	<b>29.80</b>	<b>36.14</b>	<b>45.19</b>