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APPENDIX – A

FOR THE FY 2017-18

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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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) ¹	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 ²	%			
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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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 ²	%	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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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) Rotating 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 return 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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	Location:	
	State/ Distt.	Sikkim East
	River:	Rorocho, Yallichu, Takchenchu.
2	Diversion Tunnel	
	Size, Shape	
	Length	
3	Dam:	
	Type:	Run of River type
	Maximum Dam Height	
4	Spillway:	
	Type:	Un-gated, open cut spill channel
	Crest level of spillway:	
5	Reservoir:	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	Desilting Arrangement:	
	Type:	Square
	Number & Size	One, 2.44mx2.44mx10m
	Partical size to be removed (mm):	Sand
7	Head race tunnel:	
	Size & Type	2.44mx2.44mx1.5m dia , Horse shoe & Circular
	Length:	6.4 Km
	Design discharge (cumecs):	4.7 Cumecs
8	Surge shaft:	
	Type:	(i) An inclined orifice type. (ii) Circular inside
	Diameter:	3.35 m
	Height:	3.35 m
9	Penstock/ pressure shafts:	Surface Penstock
	Type:	BQ plates
	Diameter & Length:	0.914 m, 2157 m
10	Power house:	
	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	Tail race tunnel:	
	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	Switch yard:	
	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

1	Location	
	State/Distt	Sikkim/East
	River	Rongnichu
2	Diversion Tunnel	
	Size, shape	NA
	Length	NA
3	Dam	
	Type	NA
	Maximum dam height	NA
4	Spillway	
	Type	NA
	Crest level of spillway	NA
5	Reservoir (Forebay tank)	
	Full reservoir Level (FRL)	6.7m
	Minimum Draw Down Level (MDDL)	4.26m
	Live storage (MCM)	6.7m
6	Desilting Arrangement	
	Type	RCC
	Number and Size	4 (L X B) 51.8m X 8.22m
	Particle size to be removed (mm)	92.6m
7	Head Race Tunnel	
	Size and type	RCC 1.5mX1.21m
	Length	1.33km
	Design discharge (Cumes)	60 cu
8	Surge Shaft	
	Type	NA
	Diameter	NA
	Height	NA
9	Penstock/Pressure shafts	
	Type	Conduit MS pipe
	Diameter & Length	(int. & ext.dia 0.76m & 2.48m) & 171.60m
10	Power House	
	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	
11	Tail Race Tunnel	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
12	Switchyard	
	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	Location:	
	State/ Distt.	Sikkim, West
	River:	Rimbi Khola
2	Diversion Tunnel	
	Size, Shape	Rectangular (20m length 4m breadth)
	Length	20m
3	Dam:	
	Type:	None
	Maximum Dam Height	None
4	Spillway	
	Type:	None
	Crest level of spillway:	None
5	Reservoir	Forebay Tank
	Full Reservoir Level (FRL):	1237.5m
	Minimum Draw Down Level (MDDL):	1142m
	Live storage (MCM):	45mX10mX5m
6	Desilting Arrangement:	
	Type:	3 chamber rectangular
	Number & Size	One
	Partical size to be removed (mm):	
7	Head race tunnel:	
	Size & Type	(2.15mX1.5m), rectangular
	Length:	1500m
	Design discharge (cumecs):	3.00
8	Surge shaft:	
	Type:	None
	Diameter:	
	Height:	
9	Penstock/ pressure shafts:	
	Type:	M.S pipe
	Diameter & Length:	Dia 472 mm (internal) for unit II & III, 555 mm for unit I, length 73.6m
10	Power house:	
	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	Tail race tunnel:	
	Diameter, Shape:	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	1179.5 m
12	Switch yard:	
	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	Location:	
	State/ Distt.	Sikkim, West
	River:	Rimbi Khola
2	Diversion Tunnel	
	Size, Shape	Rectangular (20mX4m)
	Length	20m
3	Dam:	
	Type:	None
	Maximum Dam Height	None
4	Spillway	
	Type:	None
	Crest level of spillway:	None
5	Reservoir	Forebay tank
	Full Reservoir Level (FRL):	1237.5 m
	Minimum Draw Down Level (MDDL):	1142 m
	Live storage (MCM):	45mX10mX5m
6	Desilting Arrangement:	
	Type:	Desilting basin
	Number & Size	2
	Particle size to be removed (mm)	
7	Head race tunnel:	
	Size & Type	Rectangular open channel
	Length:	1500m
	Design discharge (cumecs):	3.0
8	Surge shaft:	
	Type:	NA
	Diameter:	NA
	Height:	NA
9	Penstock/ pressure shafts:	
	Type:	MS Pipe
	Diameter & Length	0.85mm dia, 164 m length
10	Power house:	
	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	Tail race tunnel:	
	Diameter, Shape	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	1179.5 m
12	Switch yard:	
	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	Location:	
	State/ Distt.	
	River:	
2	Diversion Tunnel	
	Size, Shape	
	Length	
3	Dam:	
	Type:	
	Maximum Dam Height	
4	Spillway	
	Type:	
	Crest level of spillway:	
5	Reservoir	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	Desilting Arrangement:	
	Type:	
	Number & Size	
	Particle size to be removed (mm)	
7	Head race tunnel:	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	Surge shaft:	
	Type:	
	Diameter:	
	Height:	
9	Penstock/ pressure shafts:	
	Type:	
	Diameter & Length	
10	Power house:	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
	Rated discharge (cumecs)	
11	Tail race tunnel:	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	Switch yard:	
	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

1	Location	
	State/Distt	Sikkim/East
	River	Rongnichu/Sangchu
2	Diversion Tunnel	
	Size, shape	NA
	Length	NA
3	Dam	
	Type	NA
	Maximum dam height	NA
4	Spillway	
	Type	NA
	Crest level of spillway	NA
5	Reservoir (Forebay tank)	
	Full reservoir Level (FRL)	3.5'X2 & 2.5'X1 (LXBXH)
	Minimum Draw Down Level (MDDL)	31'
	Live storage (MCM)	
6	Desilting Arrangement	
	Type	RCC
	Number and Size	4 (L X B) 170' X 27'
	Particle size to be removed (mm)	304
7	Head Race Tunnel	
	Size and type	Trapezoidal
	Length	1.267km
	Design discharge (Cumes)	
8	Surge Shaft	
	Type	NA
	Diameter	NA
	Height	NA
9	Penstock/Pressure shafts	
	Type	Conduit MS pipe
	Diameter & Length	(int. & ext.dia 3.5'X2 & 2.5'X1) 550'X3
10	Power House	
	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	
11	Tail Race Tunnel	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
12	Switchyard	
	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	Location:	
	State/ Distt.	
	River:	
2	Diversion Tunnel	
	Size, Shape	
	Length	
3	Dam:	
	Type:	
	Maximum Dam Height	
4	Spillway	
	Type:	
	Crest level of spillway:	
5	Reservoir	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	Desilting Arrangement:	
	Type:	
	Number & Size	
	Particle size to be removed (mm)	
7	Head race tunnel:	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	Surge shaft:	
	Type:	
	Diameter:	
	Height:	
9	Penstock/ pressure shafts:	
	Type:	
	Diameter & Length	
10	Power house:	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
Rated discharge (cumecs)		
11	Tail race tunnel:	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	Switch yard:	
	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	Location:	
	State/ Distt.	Sikkim/North
	River:	Meyongchu
2	Diversion Tunnel	N.A
	Size, Shape	
	Length	
3	Dam:	
	Type:	Intake structure
	Maximum Dam Height	Drop type trench weir
4	Spillway	N.A
	Type:	
	Crest level of spillway:	
5	Reservoir	N.A
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	Desilting Arrangement:	
	Type:	Hooper type
	Number & Size	3 and 10mx7m
	Particle size to be removed (mm)	2mm
7	Head race tunnel:	Closed conduit
	Size & Type	1m & circular closed type
	Length:	1020m
	Design discharge (cumecs):	1.28 cumecs
8	Surge shaft:	
	Type:	circular
	Diameter:	4m
	Height:	14m
9	Penstock/ pressure shafts:	
	Type:	Circular Closed conduit
	Diameter & Length	720mm ID & 620m
10	Power house:	
	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	Tail race tunnel:	Tail race open channel
	Diameter, Shape	Rectangular
	Length:	210m
	Minimum Tail water level:	2016.65
12	Switch yard:	
	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

1	Location	
	State/Distt	Sikkim/East
	River	Rongnichu
2	Diversion Tunnel	
	Size, shape	NA
	Length	NA
3	Dam	
	Type	NA
	Maximum dam height	NA
4	Spillway	
	Type	NA
	Crest level of spillway	NA
5	Reservoir (Forebay tank)	
	Full reservoir Level (FRL)	86.0mX22.0m
	Minimum Draw Down Level (MDDL)	1.50m
	Live storage (MCM)	
6	Desilting Arrangement	
	Type	RCC
	Number and Size	(L X B) 60X40m
	Particle size to be removed (mm)	0.2mm
7	Head Race Tunnel	
	Size and type	Both open rectangular channel and M.S. closed conduit pipe
	Length	4565m
	Design discharge (Cumes)	10.50m ³ /s
8	Surge Shaft	
	Type	NA
	Diameter	NA
	Height	NA
9	Penstock/Pressure shafts	
	Type	ERW steel
	Diameter & Length	2 pipes of 1700mm dia with bifurcation into 4 pipes of 1200mm dia near power house
10	Power House	
	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	
11	Tail Race Tunnel	
	Diameter, shape	NA
	Length	NA
	Minimum tail water level	NA
12	Switchyard	
	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	Location:	
	State/ Distt.	Sikkim, West
	River:	Kalej Khola
2	Diversion Tunnel	
	Size, Shape	Drop type trench weir (Rectangular)
	Length	12 m
3	Dam:	
	Type:	None
	Maximum Dam Height	None
4	Spillway	
	Type:	None
	Crest level of spillway:	None
5	Reservoir	Forebay tank
	Full Reservoir Level (FRL):	E1. 1593.15 m
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	40mX10mX5.5m
6	Desilting Arrangement:	
	Type:	3 chamber rectangular
	Number & Size	3
	Partical size to be removed (mm):	
7	Head race tunnel:	
	Size & Type	Rectangular, Open Channel & trapezoidal channel
	Length:	3500m
	Design discharge (cumecs):	1.72 cumsec
8	Surge shaft:	None
	Type:	
	Diameter:	
	Height:	
9	Penstock/ pressure shafts:	
	Type:	MS pipe
	Diameter & Length	0.95mm dia, 420 m
10	Power house:	
	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	Tail race tunnel:	
	Diameter, Shape	Rectangular RCC
	Length:	30m
	Minimum Tail water level:	El: 1428.8 m
12	Switch yard:	
	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	Location:	
	State/ Distt.	
	River:	
2	Diversion Tunnel	
	Size, Shape	
	Length	
3	Dam:	
	Type:	
	Maximum Dam Height	
4	Spillway	
	Type:	
	Crest level of spillway:	
5	Reservoir	
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	Desilting Arrangement:	
	Type:	
	Number & Size	
	Partical size to be removed (mm):	
7	Head race tunnel:	
	Size & Type	
	Length:	
	Design discharge (cumecs):	
8	Surge shaft:	
	Type:	
	Diameter:	
	Height:	
9	Penstock/ pressure shafts:	
	Type:	
	Diameter & Length	
10	Power house:	
	Type:	
	Installed capacity (No of units x MW):	
	Peaking capacity (during lean period, MW)	
	Type of trubine:	
	Rated head (m):	
	Rated discharge (cumecs)	
11	Tail race tunnel:	
	Diameter, Shape	
	Length:	
	Minimum Tail water level:	
12	Switch yard:	
	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	Location:	
	State/ Distt.	Sikkim/North
	River:	Rabomchu
2	Diversion Tunnel	N.A
	Size, Shape	
	Length	
3	Dam:	
	Type:	Intake structure
	Maximum Dam Height	Drop type trench weir
4	Spillway	N.A
	Type:	
	Crest level of spillway:	
5	Reservoir	N.A
	Full Reservoir Level (FRL):	
	Minimum Draw Down Level (MDDL):	
	Live storage (MCM):	
6	Desilting Arrangement:	
	Type:	Hooper type
	Number & Size	4 and 15mx10m
	Partical size to be removed (mm):	2mm
7	Head race tunnel:	open channel
	Size & Type	1.5x1.83 Rectangular type
	Length:	564m
	Design discharge (cumecs):	1.70 cumecs
8	Surge shaft:	Forebay
	Type:	Rectangular
	Diameter:	25mx10mx6m
	Height:	
9	Penstock/ pressure shafts:	
	Type:	Circular Closed conduit
	Diameter & Length	810mm ID & 580m
10	Power house:	
	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	Tail race tunnel:	Tail race open channel
	Diameter, Shape	Rectangular
	Length:	16m
	Minimum Tail water level:	1272.6
12	Switch yard:	
	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 : 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	60.7125312	82.8552

Year : 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	60.7125312	82.8552

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

Name of the Hydro Generating Station: LLHP

Installed Capacity: 2x6 = 12 MW

Year : 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
1	April	3.355776	4.6608
2	May	6.463872	8.688
3	June	7.22736	10.038
4	July	8.3450016	11.2164
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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
	Total	60.7125312	82.8552

**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 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	10.6247	14.4997

Year 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	10.6247	14.4997

**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 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	10.6247	14.4997

**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 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	3.0356	4.1428

Year 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	3.0356	4.1428

**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 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	3.0356	4.1428

**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 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	5.0594	6.9046

Year 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	5.0594	6.9046

**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 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	5.0594	6.9046

**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 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	12.6484	17.2615

Year 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	12.6484	17.2615

**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 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	12.6484	17.2615

**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 : 2015-16

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 :2016-17

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 :2017-18

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: Kalez

Installed Capacity: 2 x 1 = 2 MW

Year 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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: Rabom Chu

Installed Capacity: 2x1.5 = 3 MW

Year: 2015-16

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	15.1781	20.7138

Year: 2016-17

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	15.1781	20.7138

**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: 2017-18

Sl. No	Month	Design Energy (MUs)	MW Continuous*
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
	Total	15.1781	20.7138

**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	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (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	Total fixed expenses (5+6+7)			

APPENDIX – C

FOR THE FY 2017-18

CONSUMER CATEGORY-WISE ENERGY SALES

Sl. No.	Category of Consumers	2015-16 (Actuals)		2016-17 (Estimated)		2017-18 (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	Domestic (DLT)						
a)	Up to 50 units	91122	25.70	92489	26.21	93876	26.85
b)	51 to 100 units	66123	16.32	67115	16.65	68122	17.01
c)	101-200 units	15889	9.44	16127	9.63	16369	9.84
d)	201 to 400 units	10785	11.63	10947	11.86	11111	12.12
e)	401 & above	7899	11.87	8017	12.11	8137	12.37
	Total	91122	74.96	92489	76.46	93876	78.20
2	Commercial (CLT)						
a)	Up to 50 units	10917	8	11081	8	11247	8
b)	51 to 200 units	9831	10	9978	10	10128	10
c)	201 to 400 units	6002	10	6092	10	6183	11
d)	401 & above	1656	9	1681	9	1706	10
	Total	10917	37.43	11081	38.18	11247	39.02
3	Public lighting						
a)	Rural Areas	9	0.05	9	0.05	9	0.05
b)	Urban Areas	37	0.10	38	0.10	39	0.10
	Total	46	0.15	47	0.15	48	0.16
4	Temporary	-	1.16	-	1.18	-	1.21
5	Industrial						
A	HT						
	HT (AC) above 3.3 KV						
a)	Upto 100 KVA	166	52.87	168	53.93	171	55.11
b)	100 - 250 KVA	127	27.65	129	28.20	131	28.82
c)	250- 500 KVA	90	24.38	91	24.87	92	25.41
d)	500 KVA & above	45	21.40	46	21.83	47	22.31
	Total HT	428	126.30	434	128.83	441	131.66
B	LT (Rural)						
a)	Up to 500 units			200	0.25	203	0.26
b)	501 - 1000 units	197	0.65	129	0.17	131	0.18
c)	1001 & above			56	0.24	57	0.24
	Total	197	0.65	200	0.66	203	0.67
C	LT (Urban)						
a)	Up to 500 units			283	0.25	287	0.25
b)	501 - 1000 units	279	0.69	121	0.21	123	0.21
c)	1001 & above			100	0.26	102	0.26

Sl. No.	Category of Consumers	2015-16 (Actuals)		2016-17 (Estimated)		2017-18 (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
	Total	279	0.69	283	0.71	287	0.73
	Total LT (B+C)	476	1.34	483	1.37	490	1.40
	Total Industrial (A+B+C)	904	127.64	917	130.20	931	133.06
6	Bulk supply						
a)	LT	1243	23.37	1262	5.89	1281	6.01
b)	HT	142		144	17.95	146	18.35
	Total	1385	23.37	1406	23.84	1427	24.36
10	Grand Total	104374	264.71	105940	270.01	107529	276.01

ENERGY BALANCE

(In MU)

Sl. No.	Item	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
A	ENERGY REQUIREMENT			
1	Energy Sales within the State	264.71	270.01	276.01
2	Sales Outside State (UI)	94.88	92.60	87.30
3	Sales to Common Pool Consumers	-	-	-
4	Sales to Electricity Traders	380.52	380.52	380.52
5	Sales to Other Distribution Licensees	-	-	-
6	Total Sales	740.10	743.13	743.83
7	Distribution Losses			
(i)	MU	121.72	121.50	121.01
(ii)	%	31.50	31.03	30.48
8	Total Energy Requirement (6+7(i))	861.83	864.63	864.83
B	ENERGY AVAILABILITY			
1	Net Generation (own)	11.09	11.50	12.00
2	Power Purchase from			
	a) Central Stations (Including UI)	384.73	384.73	384.73
	b) PTC	39.60	39.60	39.60
	c)(WBSEDCL)	53.83	53.83	53.83
	d) SPDC	29.38	29.38	29.38
	e) Free Power	350.37	350.37	350.37
3	Net Power Purchase (a+b+c+d+e+f)	857.91	857.91	857.91
4	Less: Pool Loss	7.17	4.78	5.08
5	Energy available at State Periphery	850.74	853.13	852.83
6	Total Energy Availability	861.83	864.63	864.83

Information regarding Distribution Loss and AT & C Loss of Licensee

Sl. No	Particulars	Calculation	Unit	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projection)
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM	A	MU	11.09	11.50	12.00
2	Input energy (metered Import) received at interface points of DISCOM network	B	MU	375.32	380.00	385.00
3	Input energy (metered Export) by the DISCOM at interface point of DISCOM network	C	MU	-	-	-
4	Total energy available for sale within the licensed area to the consumers of the DISCOM	$D=A+B-C$	MU	386.41	391.50	397.00
5	Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	245.20	251.01	258.01
6	Energy billed to unmetered consumers within the licensed area of the DISCOM	F	MU	19.51	19.00	18.00
7	Total Energy Billed	$G=E+F$	MU	264.71	270.01	276.01
8	Amount billed to consumer within the licensed area of DISCOM	H	Rs.	129.55	135.00	145.00
9	Amount Realized by the DISCOM out of the amount Billed at HQ	I	Rs. Cr.	119.74	129.00	144.20
10	Collection efficiency (%) (=Revenue realized / Amount billed)	$J=(I/H) \times 100$	%	92	96	99
11	Energy realised by the DISCOM	$K=J \times G$	MU	245	258	274
12	Distribution Loss (%)	$L=\{(D-G)/D\} \times 100$	%	31.50	31.03	30.48
13	AT&C Loss (%)	$M=\{(D-K)/D\} \times 100$	%	36.68	34.10	30.86

**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
1	2	3	4	5	6	7	8	9	10	11	12
1	NTPC										
	FSTPP	1600	1.63%	26.08	0.00	0.00	0.00	0.00	0.00	0.00	85.78
	FSTPP III	-	-	-	-	-	-	-	-	-	-
	BSTPP	1320	1.52%	20.06	0.00	0.00	0.00	0.00	0.00	0.00	14.53
	KHSTPP-I	840	1.55%	13.02	0.00	0.00	0.00	0.00	0.00	0.00	52.86
	KHSTPP-II	1500	0.33%	4.95	0.00	0.00	0.00	0.00	0.00	0.00	23.83
	TSTPP	1000	2.40%	24	0.00	0.00	0.00	0.00	0.00	0.00	169.74
2	NHPC										
	RANGIT-III	60	13.33%	7.998	0.00	0.00	0.00	0.00	0.00	0.00	44.37
	TEESTA -V	510	13.19%	67.269	0.00	0.00	0.00	0.00	0.00	0.00	343.98
3	PTC										
	CHUKHA	270	2.22%	5.994	0.00	0.00	0.00	0.00	0.00	0.00	39.60
4	Other sources										
	WBSEDCL	50	20%	10	0.00	0.00	0.00	0.00	0.00	0.00	53.83
	SPDC	-	0%	0	0.00	0.00	0.00	0.00	0.00	0.00	29.38
	Total										857.91

**ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED
FOR THE YEAR 2016-17**

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
1	NTPC										
	FSTPP	1600	1.63%	26.08	0.00	0.00	0.00	0.00	0.00	0.00	85.78
	FSTPP III	-	-	-	-	-	-	-	-	-	-
	BSTPP	1320	1.52%	20.06	0.00	0.00	0.00	0.00	0.00	0.00	14.53
	KHSTPP-I	840	1.55%	13.02	0.00	0.00	0.00	0.00	0.00	0.00	52.86
	KHSTPP-II	1500	0.33%	4.95	0.00	0.00	0.00	0.00	0.00	0.00	23.83
	TSTPP	1000	2.40%	24	0.00	0.00	0.00	0.00	0.00	0.00	169.74
2	NHPC										
	RANGIT-III	60	13.33%	7.998	0.00	0.00	0.00	0.00	0.00	0.00	44.37
	TEESTA -V	510	13.19%	67.269	0.00	0.00	0.00	0.00	0.00	0.00	343.98
3	PTC										
	CHUKHA	270	2.22%	5.994	0.00	0.00	0.00	0.00	0.00	0.00	39.60
4	Other sources										
	WBSEB	50	20%	10	0.00	0.00	0.00	0.00	0.00	0.00	53.83
	SPDC	-	0%	0	0.00	0.00	0.00	0.00	0.00	0.00	29.38
	Total										857.91

**ENTITLEMENT FROM CENTRAL GENERATING STATIONS AND ENERGY PURCHASED
FOR THE YEAR 2017-18**

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
1	NTPC		%	MW							
	FSTPP	1600	1.63%	26.08	0.00	0.00	0.00	0.00	0.00	0.00	85.78
	FSTPP III	-	-	-	-	-	-	-	-	-	-
	BSTPP	1320	1.52%	20.06	0.00	0.00	0.00	0.00	0.00	0.00	14.53
	KHSTPP-I	840	1.55%	13.02	0.00	0.00	0.00	0.00	0.00	0.00	52.86
	KHSTPP-II	1500	0.33%	4.95	0.00	0.00	0.00	0.00	0.00	0.00	23.83
	TSTPP	1000	2.40%	24	0.00	0.00	0.00	0.00	0.00	0.00	169.74
2	NHPC										
	RANGIT-III	60	13.33%	7.998	0.00	0.00	0.00	0.00	0.00	0.00	44.37
	TEESTA -V	510	13.19%	67.269	0.00	0.00	0.00	0.00	0.00	0.00	343.98
3	PTC										
	CHUKHA	270	2.22%	5.994	0.00	0.00	0.00	0.00	0.00	0.00	39.60
4	Other sources										
	WBSEB	50	20%	10	0.00	0.00	0.00	0.00	0.00	0.00	53.83
	SPDC	-	0%	0	0.00	0.00	0.00	0.00	0.00	0.00	29.38
	Total										857.91

**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
1	NTPC							
	FSTPP	85.78	-	23.93	13.68	-2.25	35.36	4.12
	FSTPP III	-	-	-	-	-0.00	-0.00	-
	BSTPP	14.53	-	4.86	14.87	-0.02	19.71	13.56
	KHSTPP-I	52.86	-	13.29	7.60	-1.30	19.58	3.71
	KHSTPP-II	23.83	-	5.82	3.23	-0.60	8.45	3.55
	TSTPP	169.74	-	22.94	13.30	-0.73	35.51	2.09
2	NHPC							
	a) RANGIT-III	5.05	-	0.75	0.72	0.51	1.98	3.92
	b)TEESTA -V	32.93	-	3.83	3.84	0.52	8.20	2.49
3	Other sources							
	a) PTC	39.60	-	-	-	7.30	7.30	1.84
	b)WBSEDCL	53.83	-	-	-	6.89	6.89	1.28
	c) SPDC	29.38	-	-	-	10.94	10.94	3.72
4	Other Charges							
	a) Transmission Charge	-	-	-	-	-	18.41	-
5	UI Purchase							
	Free Power	350.37	-	-	-	-	-	-
	Rebate/ Other Charges	-	-	-	-	-	-1.10	-
	Total	857.91		75.41	57.24	21.27	172.49	

**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
1	NTPC							
	FSTPP	85.78	-	25.13	14.36	-2.36	37.13	4.33
	FSTPP III	-	-	-	-	-0.00	-	-
	BSTPP	14.53	-	5.10	15.61	-0.02	20.70	14.24
	KHSTPP-I	52.86	-	13.95	7.98	-1.37	20.56	3.89
	KHSTPP-II	23.83	-	6.11	3.39	-0.63	8.88	3.72
	TSTPP	169.74	-	24.08	13.97	-0.77	37.28	2.20
2	NHPC							
	RANGIT-III	5.05	-	0.78	0.76	0.53	2.08	4.11
	TEESTA -V	32.93	-	4.02	4.04	0.55	8.61	2.61
3	Other sources							
	a) PTC	39.60	-	-	-	7.66	7.66	1.93
	b)WBSEDCL	53.83	-	-	-	7.23	7.23	1.34
	c) SPDC	29.38	-	-	-	11.49	11.49	3.91
4	Other Charges							
	a) Transmission Charge	-	-	-	-	-	19.33	-
5	UI Purchase							
	Free Power	350.37	-	-	-	-	-	-
	Rebate/ Other Charges	-	-	-	-	-	-1.16	-
	Total	857.91		79.18	60.10	22.33	181.11	

**POWER PURCHASE COST
FOR THE YEAR-2017-18**

(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
1	NTPC							
	FSTPP	85.78	-	26.38	15.08	-2.48	38.98	4.54
	FSTPP III	-	-	-	-	-0.00	-0.00	-
	BSTPP	14.53	-	5.36	16.39	-0.02	21.73	14.95
	KHSTPP-I	52.86	-	14.65	8.37	-1.43	21.59	4.08
	KHSTPP-II	23.83	-	6.42	3.56	-0.66	9.32	3.91
	TSTPP	169.74	-	25.29	14.67	-0.81	39.15	2.31
2	NHPC							
	RANGIT-III	5.05	-	0.82	0.80	0.56	2.18	4.32
	TEESTA -V	32.93	-	4.23	4.24	0.58	9.04	2.75
3	Other sources							
	PTC	39.60	-	-	-	8.04	8.04	2.03
	WBSEDCL	53.83	-	-	-	7.60	7.60	1.41
	SPDC	29.38	-	-	-	12.06	12.06	4.11
4	Other Charges							
	Transmission Charge	-	-	-	-	-	20.30	-
5	UI Purchase							
	Free Power	350.37	-	-	-	-	-	-
	Rebate/ Other Charges	-	-	-	-	-	-1.22	-
	Total	857.91		83.14	63.11	23.45	190.17	

NON TARIFF INCOME

(Rs. in crores)

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Meter / Service Rent	0.56	0.58	0.60
2	Late Payment Surcharge	0.81	0.83	0.85
3	Theft / Pilferage of Energy Charges	0.06	0.06	0.07
4	Misc. Receipts	0.01	0.01	0.01
5	Misc. Charges	0.02	0.02	0.02
6	Wheeling Charges	-	-	-
7	Interest on Staff Loans & Advance	-	-	-
8	Income from Trading	-	-	-
9	Income from Welfare Activities	-	-	-
10	Excess on Verification	-	-	-
11	Investments & Bank Balances	-	-	-
12	Total Income	1.46	1.50	1.55
13	Add Prior Period Income	-	-	-
14	Total	1.46	1.50	1.55

Format- D6

**BAD AND DOUBTFUL DEBTS
FOR THE YEAR 2017-18**

(Rs. in Crores)

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

Format- D7

ANNUAL REVENUE REQUIREMENT

(₹ in Crores)

Sl. No.	Item of expenditure	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Cost of Fuel	0.26	0.07	0.18
2	Cost of Power Purchase	172.49	181.11	190.17
3	Employee Costs	96.86	98.70	114.74
4	R&M Expenses	24.05	25.26	25.41
5	Adm. & Gen. Expenses	2.37	3.07	3.08
6	Depreciation	26.80	30.16	38.01
7	Interest Charges	94.66	95.60	100.93
8	Interest on Working Capital	4.70	4.78	5.03
9	Return on Equity	40.45	44.68	50.93
10	Income Tax	-	-	-
11	Total Revenue Requirement	462.63	483.43	528.48
12	Less: Non Tariff Income	1.46	1.50	1.55
13	Net Revenue Requirement (11-12)	461.17	481.92	526.93
14	Revenue from Tariff	129.55	130.88	133.07
15	Revenue from Outside State Sale	109.60	109.27	108.50
16	Gap (13 - 14- 15)	222.02	241.77	285.36
17	Revenue Surplus Carried over	-	-	-
18	Additional revenue from proposed tariff	-	-	21.74
19	Regulatory Asset	-	-	-
20	Energy Sales (MU)	264.71	270.01	276.01

APPENDIX – D

FOR THE FY 2017-18

Format-1

EMPLOYEE COST

(Rs. in Crores)

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
	SALARIES & ALLOWANCES			
1	Basic Pay	38.19	39.00	42.85
2	Dearness Pay	-	-	-
3	Dearness Allowance	46.97	47.50	58.70
4	House Rent Allowance	5.73	5.90	6.30
5	Fixed Medical Allowance	-	-	-
6	Medical Reimbursement Charges	1.50	1.65	1.80
7	Over Time Payment	-	-	-
8	High Altitude Allowance	0.15	0.15	0.15
a)	State Border Compensatory Allowance	3.82	3.85	4.20
9	Generation Incentive	-	-	-
10	Bonus	-	-	-
11	Sub-Total	96.36	98.05	114.00
	Terminal Benefits			
12	Leave Encashment	0.50	0.65	0.74
13	Gratuity	-	-	-
14	Commutation of Pension	-	-	-
15	Workman Compensation	-	-	-
16	Ex- gratia	-	-	-
17	Sub-Total	0.50	0.65	0.74
	Pension Payment			
18	Basic Pension	-	-	-
19	Dearness Pension	-	-	-
20	Dearness Allowance	-	-	-
21	Any Other Expenses (Medical)	-	-	-
22	Sub-Total	-	-	-
23	Total (11+17+22)	96.86	98.70	114.74
24	Amount Capitalised	-	-	-
25	Net Amount	96.86	98.70	114.74
26	Add Prior Period Expenses	-	-	-
27	Grand Total	96.86	98.70	114.74

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

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Number of employees as on 1st April	3,820	3,920	3,729
2	Number of employees on deputation / foreign service as on 1st April	-	-	-
3	Total Number of employees (1+2)	3,820	3,920	3,729
4	Number of employees retired / retiring during the year	29	191	55
5	Number of appointments during the year	129	24	-
6	Number of employees at the end of the year (3-4+5)	3,920	3,753	3,674

EMPLOYEES PRODUCTIVE PARAMETERS

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Number of Consumers	1,04,374	1,05,940	1,07,529
2	Connected Load in kW	1,26,745	1,26,745	1,26,745
3	Line circuit in KM (LT+HT)	10,631	10,631	10,631
4	Energy Sold in MU	264.71	270.01	276.01
5	Employees per MU of energy sold	14.81	13.90	13.31
6	Employees per 1000 consumers	37.56	35.43	34.17
7	Share of Employees Cost in Total Expenses	96.86	98.70	114.74
8	Employees Cost in paise / kWh of Energy Sold	365.91	365.55	415.71
9	Line circuit KM (EHT Lines)	104.61	104.61	104.61
10	Employees per KM of EHT line	37.47	35.88	35.12
11	Power station installed capacity own generation (MW)	41.59	41.59	41.59
12	Employees per MW of capacity	94.25	90.24	88.34

REPAIRS AND MAINTENANCE EXPENSES

(₹ in Crores)

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Plant & Machinery			
	-Plant and Apparatus	-	-	-
	-EHV Sub-stations	0.42	0.43	0.43
	- 33 kV Sub-stations	-	-	-
	- 11 kV Sub-stations	2.42	2.42	2.42
	-Switch Gear and Cable Connections	1.24	1.24	1.23
	- Others	-	-	-
	-Diesel Power Stations	-	-	-
	Total	4.08	4.09	4.08
2	Building	0.93	0.95	0.96
3	Hydraulic Works & Civil Works	-	-	-
4	Line cable & Network			
	- EHV Lines	1.65	1.65	1.66
	-33 kV Lines	-	-	-
	-11 kV Lines	10.60	11.00	11.05
	-LT Lines	5.24	5.75	5.78
	-Meters and metering equipment	-	-	-
	-Others	-	-	-
	Total	17.49	18.40	18.49
5	Vehicles	0.43	0.45	0.43
6	Furniture & Fixtures	0.16	0.17	0.18
7	Office Equipments	-	-	-
8	Operating Expenses	0.96	1.20	1.27
9	Total	1.55	1.82	1.88
10	Add / Deduct share of other (To be specified)	-	-	-
11	Total Expenses	24.05	25.26	25.41
12	Less Capitalized	-	-	-
13	Net Expenses	24.05	25.26	25.41
14	Add Prior Period	-	-	-
15	Total Expenses Charged to Revenue as R&M Expenses	24.05	25.26	25.41

ADMINISTRATION AND GENERAL EXPENSES

(Rs. in Crores)

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Rent, Rates & Taxes	-	-	-
2	Insurance	-	-	-
3	Telephone, Postage & Telegrams	0.06	0.06	0.06
4	Consultancy Fees	-	-	-
5	Technical Fees	-	-	-
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	1.85	2.55	2.55
10	Freight	-	-	-
11	Other Material related Expenses	-	-	-
12	Total Expenses	2.37	3.07	3.08
13	Less Capitalised	-	-	-
14	Net expenses	2.37	3.07	3.08
15	Add Prior period	-	-	-
16	Total Expenses Charged to Revenue	2.37	3.07	3.08

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	522.53	74.44	-	596.97	5.28	18.70
2	Buildings	289.23	-	-	289.23	3.34	2.81
3	Land	1.93	-	-	1.93	-	-
4	Vehicles	5.05	-	-	5.05	18.00	0.26
5	IT & Communication	0.03	-	-	0.03	15.00	-
6	Street Light	2.82	-	-	2.82	5.28	0.16
7	Others	104.22	0.07	-	104.29	5.28	4.88
Total		925.80	74.52	-	1,000.32		26.80

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 year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Plant & Machinery	596.97	127.11	-	724.08	5.28	22.06
2	Buildings	289.23	-	-	289.23	3.34	2.81
3	Land	1.93	-	-	1.93	-	-
4	Vehicles	5.05	-	-	5.05	18.00	0.26
5	IT & Communication	0.03	-	-	0.03	15.00	-
6	Street Light	2.82	-	-	2.82	5.28	0.16
7	Others	104.29	-	-	104.29	5.28	4.88
Total		1,000.32	127.11	-	1,127.43		30.16

VALUE OF ASSETS AND DEPRECIATION 2017-18

(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	724.08	170.37	-	894.46	5.28	29.91
2	Buildings	289.23	-	-	289.23	3.34	2.81
3	Land	1.93	-	-	1.93	-	-
4	Vehicles	5.05	-	-	5.05	18.00	0.26
5	IT & Communication	0.03	-	-	0.03	15.00	-
6	Street Light	2.82	-	-	2.82	5.28	0.16
7	Others	104.29	-	-	104.29	5.28	4.88
Total		1,127.43	170.37	-	1,297.80	52.18	38.01

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
13	Total	0.00		0.00	0.00	0.00	0.00
14	Add State Govt. Loan	0.00	0.00	0.00	0.00	0.00	0.00
15	Total (13 +14)	0.00		0.00	0.00	0.00	0.00
16	Less capitalisation						0.00
17	Net Interest						0.00
18	Add prior period						0.00
19	Total Interest						0.00
20	Finance charges						0.00
21	Total Interest and finance charges						0.00

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
13	Total	0.00		0.00	0.00	0.00	0.00
14	Add State Govt. Loan	0.00	0.00	0.00	0.00	0.00	0.00
15	Total (13 +14)	0.00		0.00	0.00	0.00	0.00
16	Less capitalisation						0.00
17	Net Interest						0.00
18	Add prior period						0.00
19	Total Interest						0.00
20	Finance charges						0.00
21	Total Interest and finance charges						0.00

DETAILS OF LOANS FOR THE YEAR 2017-18

(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
13	Total	0.00		0.00	0.00	0.00	0.00
14	Add State Govt. Loan	0.00	0.00	0.00	0.00	0.00	0.00
15	Total (13 +14)	0.00		0.00	0.00	0.00	0.00
16	Less capitalisation						0.00
17	Net Interest						0.00
18	Add prior period						0.00
19	Total Interest						0.00
20	Finance charges						0.00
21	Total Interest and finance charges						0.00

INTEREST CAPITALISED**(Rs. In Crores)**

Sl. No.	Interest Capitalized	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	WIP	37.46	63.91	85.66
2	GFA at the end of the year	1000.32	1127.43	1297.80
3	WIP+GFA at the end of the year	1037.78	1191.34	1383.46
4	Interest (Excluding interest on WCL)	-	-	-
5	Interest Capitalised	-	-	-

**INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE
YEAR 2017-18**

(Rs. In Crores)

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

**INFORMATION REGARDING REVENUE FROM
OTHER BUSINESS FOR THE YEAR 2017-18**

(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	2016-17	2017-18
1	2	3	4
1	One month Employees Cost	8.23	9.56
2	One month Administration & General Expenses	0.26	0.26
3	One month R&M Cost	2.11	2.12
4	Maintenance Spares	0.00	0.00
5	Two Months Receivables	21.81	22.18
6	Total	32.40	34.11
7	Interest on Working Capital @ 14.75%	4.78	5.03

**INFORMATION REGARDING FOREIGN EXCHANGE RATE
VARIATION (FERV)**

(Rs. in Crores)

Sl. No.	Particulars	Amount
1	2	3
1	Amount of liability provided	NA
2	Amount recovered	
3	Amount adjusted	

**INFORMATION REGARDING WHOLESALE PRICE INDEX
(ALL COMMODITIES)
(TO BE SUPPLIED WITH DOCUMENTARY EVIDENCE)**

Sl. No.	Period	WPI	Increase Over Previous Year
1	2	3	4
1	As on April 1 of 2015-16	176.40	4.40
2	As on April 1 of 2016-17	177.80	1.40
3	As on April 1 of 2016-17	-	-



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Month/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
2016	175.4	174.1	175.3	177.8	180.2	182.9	184.2	183.3	182.8	182.9																	



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)
1	Domestic									
					Up to 50 units	26.85	110.00	2.95		
					51 to 100 units	17.01	225.00	3.83		
					101-200 units	9.84	345.00	3.40		
					201 to 400 units	12.12	415.00	5.03		
					401 & above	12.37	440.00	5.44		
	Total					78.20			20.65	2.64
2	Commercial									
					Up to 50 units	8.48	330.00	2.80		
					51 to 200 units	10.37	515.00	5.34		
					201 to 400 units	10.58	540.00	5.71		
					401 & above	9.59	567.00	5.44		
	Total					39.02			19.29	4.94
3	Public lighting									
					Rural Areas	0.05	250.00	0.01		
					Urban Areas	0.10	460.00	0.05		
	Total					0.16			0.06	3.90
4	Temporary					1.209			1.05	8.68
5 a)	Industrial LT (Rural)									
				0.05	Up to 500 units	0.26	235	0.11		
				0.05	501 - 1000 units	0.18	420	0.12		
				0.05	1001 & above	0.24	545	0.18		
	Total					0.67			0.41	
5 b)	Industrial LT (Urban)									
				0.012	Up to 500 units	0.25	480.00	0.13		

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	0.21	550.00	0.13		
				0.012	1001 & above	0.26	620.00	0.17		
	Total					0.73			0.44	
	Industrial LT Total					1.40			0.84	6.01
	Total (LT)								41.90	

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)
6	Industrial HT									
	HT (AC) above 3.3 KV									
	Upto 100 KVA	12088		55.11	175	300	2.54	16.53	19.07	
	100 - 250 KVA	15582		28.82	225	348	4.21	10.03	14.24	
	250 KVA - 500 KVA	25273		25.41	250	396	7.58	10.06	17.65	
	500 KVA & above	30654		22.31	475	410	17.47	9.15	26.62	
	Total			131.66					77.58	
7	Bulk supply									
	HT + LT	430		24.36					13.60	
8	Total (HT)								91.17	
9	Total (LT)								41.90	
10	Total (LT+HT)								133.07	

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	Total (LT+HT+ EHT)							

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	Grand Total							

Investment Plan (Scheme - wise)

(Rs. in Crores)

Sl. No.	Name of Scheme/ Project	Approved Outlay	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)	Progressive Expenditure upto Ensuing Year
1	2	3	4	5	6	7
1	Schemes sanctioned under MDs	14.44	0.75	3.00	6.00	-
2	Schemes sanctioned under Building/ upgradation of Transformers	-	-	-	-	-
3	MNRE	15.41	0.10	14.76	7.35	-
4	State Share of MNRE	3.53	-	-	-	-
5	NEC Schemes	43.59	5.14	23.40	-	-
6	State Share of NEC/NLCPR Schemes	60.49	5.83	2.80	-	-
7	NLCPR Schemes	214.49	24.36	48.41	113.83	-
8	Schemes under CMs 42 days tour prog.	-	-	-	-	-
9	Schemes under SPA	-	0.33	-	-	-
10	State share of SPA	-	-	-	-	-
11	RGVY	5.90	-	-	-	-
12	State Share of RGVY	-	-	2.00	2.00	-
13	R-APDRP	14.21	-	-	-	-
14	State share of R-APDRP	-	-	-	-	-
15	Schemes under TSP/SCSP	2.15	1.00	0.25	-	-
16	Land compensation	-	0.60	1.50	0.75	-
17	APDRP	18.45	-	5.61	-	-
18	Others	-	44.07	51.83	62.19	-
	Total		82.18	153.56	192.12	-

Investment Plan (Year - wise)

(Rs. in Crores)

Sl. No.	Year	Originally proposed by the Utility	Approved by the Commission	Revised by the Utility	Revised Approval by the Commission in review	Actual Expenditure
1	2	3	4	5	6	7
1	2015-16	250.74	250.74	63.30	89.52	82.18
2	2016-17	113.06	113.06	153.56	-	-
3	2017-18	192.12	-	-	-	-

WORKS-IN-PROGRESS**(Rs. in Crores)**

Sl. No.	Particulars	2015-16 (Actuals)	2016-17 (Estimated)	2017-18 (Projected)
1	2	3	4	5
1	Opening Balance	29.80	37.46	63.91
2	Add: New Investments	82.18	153.56	192.12
3	Total	111.98	191.02	256.03
4	Less Investment Capitalised	74.52	127.11	170.37
5	Closing Balance	37.46	63.91	85.66