	D.				Annexure - 7.
	Pro	jects considered ROE for FY		<u>n</u>	
Sl. No.	Name of Station	Division/Zone	COD	Capital Cost (Rs. In Lakh)	RoE (Rs. In Lakh) for FY 2020-21
1	Nuranang	Western Zone	01-04-1996	985.00	51.89
2	Bramdhongchung	Western Zone	01-04-2008	105.30	5.55
3	Shakti Nallah	Western Zone	01-04-2008	109.32	5.76
4	Kitpi MHS Ph-II	Western Zone	01-04-2008	3373.83	177.73
5	Chellengkang Ph-II	Western Zone	01-04-2008	54.94	2.89
6	Bongleng	Western Zone	01-04-2009	114.27	6.02
7	Thimbu	Western Zone	01-04-2009	126.91	6.69
8	Bramdhongchung Ph-II	Western Zone	01-04-2010	134.71	7.10
9	Tsechu Nallah	Western Zone	01-04-2010	157.75	8.31
10	Sessa	Western Zone	01-04-1992	131.00	6.90
11	Domkhrong	Western Zone	01-04-2008	2845.77	149.92
12	Sinchung	Western Zone	01-04-2008	54.48	2.87
13	Ankaling	Western Zone	01-04-2009	66.35	3.50
14	Khet	Western Zone	01-04-2009	144.27	7.60
15	Dikshi	Western Zone	01-04-2010	56.86	3.00
16	Khadiyabey	Western Zone	01-04-2011	282.91	14.90
17	Pacha MHS	Western Zone	01-04-2008	3992.80	210.34
18	Pakoti	Western Zone	01-04-2010	138.37	7.29
19	Patta Nallah	Western Zone	01-04-2010	140.80	7.42
20	Watte Mame	Western Zone	01-04-2010	145.50	7.66
21	Kade Nallah	Western Zone	01-04-2010	95.09	5.01
22	Koye	Western Zone	01-04-2009	98.00	5.16
23	Chambang	Western Zone	01-04-2009	109.55	5.77
24	Paya MHS at Hiya	Western Zone	01-04-2011	237.93	12.53
	Sippi	Western Zone	01-04-2008	3832.92	201.92
26	Pinto Karo MHS	Western Zone	01-04-2011	83.11	4.38
27	Sikin Karo	Western Zone	01-04-2011	387.61	20.42
28	Sinyum Koro	Western Zone	01-04-2011	197.06	10.38
29	Kojin Nallah	Western Zone	01-04-2011	184.35	9.71
30	Kambang	Eastern Zone	01-04-2008	3832.92	201.92
31	Liromoba	Eastern Zone	01-04-2008	3073.73	161.92
32	Yingko Sikong at Rapum	Eastern Zone	01-04-2009	40.14	2.11
	Angu	Eastern Zone	01-04-2010	39.46	2.08
	Solegomang MHS	Eastern Zone	01-04-2011	88.83	4.68
	Sirnyuk	Eastern Zone	01-04-1996	2464.32	129.82
36	Kopu at Tuting	Eastern Zone	01-04-2007	259.60	13.68
	Silingri	Eastern Zone	01-04-2008	101.68	5.36
38	Singa	Eastern Zone	01-04-2008	122.98	6.48
39	Ngaming	Eastern Zone	01-04-2008	103.04	5.43
	Sika	Eastern Zone	01-04-2008	50.00	2.63
41	Mayung	Eastern Zone	01-04-2009	22.22	1.17
	Gosang	Eastern Zone	01-04-2011	826.00	43.51
	Sub T	otal ====>		29411.68	1549.41

	-				Annexure - 7.
	Pro	jects considered		n	
		ROE for FY	2020-21		D 7 (D 7
Sl. No.	Name of Station	Division/Zone	COD	Capital Cost (Rs. In Lakh)	RoE (Rs. In Lakh) for FY 2020-21
	Kote MHS	Eastern Zone	01-04-2011	96.70	5.09
	Sijen MHS at Adi pasi	Eastern Zone	01-04-2011	91.41	4.82
45	Pyabung MHS	Eastern Zone	01-04-2011	74.13	3.91
46	Rina	Eastern Zone	01-04-2008	3024.45	159.33
47	Deopani Ph-II	Eastern Zone	01-04-2004	290.10	15.28
48	Tah Ahfra Ph-I & Ph-II	Eastern Zone	01-04-2009	49.63	2.61
49	Echi Ahfra	Eastern Zone	01-04-2005	484.79	25.54
50	Awapani Ph-II	Eastern Zone	01-04-2005	714.46	37.64
51	Echito Nallah	Eastern Zone	01-04-2010	74.04	3.90
52	Rupapani	Eastern Zone	01-04-2010	74.65	3.93
53	Chu Nallah	Eastern Zone	01-04-2011	73.84	3.89
54	Mati Nallah	Eastern Zone	03-04-2004	598.56	31.53
55	Yapak Nallah	Eastern Zone	01-04-2005	317.71	16.74
56	Teepani	Eastern Zone	01-04-2009	675.47	35.58
57	KrawtiNallah	Eastern Zone	02-04-2009	119.07	6.27
	Hathipani	Eastern Zone	03-04-2009	120.44	6.34
-	Tha Nallah	Eastern Zone	04-04-2009	122.99	6.48
60	Maipani	Eastern Zone	01-04-2010	98.14	5.17
61	Ashapani	Eastern Zone	02-04-2011	99.98	5.27
62	Langpani	Eastern Zone	01-04-2011	543.91	28.65
63	Tissue	Eastern Zone	01-04-1986	617.00	32.50
64	Jongkey Nallah	Eastern Zone	01-04-2011	144.50	7.61
65	Ngonalo at Vijaynagar	Eastern Zone	01-04-2010	408.45	21.52
66	Tinning	Eastern Zone	01-04-2010	99.98	5.27
	Chicklong	Eastern Zone	02-04-2011	98.14	5.17
68	Sumhok Nallah	Eastern Zone	01-04-2009	198.90	10.48
69	Tahin Nallah	Eastern Zone	02-04-2011	222.98	11.75
70	Mago MHS	Western Zone	01-04-2014	140.44	7.40
71	Ayingmuri MHS	Western Zone	01-04-2011	175.00	9.22
72	Limeking MHS	Western Zone	01-04-2011	21.00	1.11
	Mechuka	Eastern Zone	01-04-2012	113.02	5.95
74	Sirikorang MHS	Eastern Zone	01-04-2008	646.11	34.04
_	Awapani at Gepuline	Eastern Zone	01-04-2018	714.46	37.64
	Dura Nallah	Western Zone	01-04-2009	404.87	21.33
77	Kachopani MHS	Eastern Zone	02-04-2009	393.33	20.72
	Jigaon	Eastern Zone	01-04-2011	71.85	3.79
	Zhongdongrong	Western Zone	01-04-2011	1406.44	74.09
	13620.94	717.56			
	To	otal		43032.62	2266.97

				Annexure - 8.
		sidered by commis		
	O&M C	ost for FY 2020-21		
Sl. No.	Name of Station	Division/Zone	Installed Capacity (MW)	O & M COST for FY 2020-21 (Rs. In Lakh)
1	Chellengkang Ph-I	Western Zone	0.03	1.28
2	Chellengkang Ph-II	Western Zone	0.03	1.28
3	Shakti Nallah	Western Zone	0.10	4.25
4	Thimbu	Western Zone	0.10	4.25
5	Khet	Western Zone	0.10	4.25
6	Tsechu Nallah	Western Zone	0.10	4.25
7	Mago MHS	Western Zone	0.10	4.25
8	Nuranang	Western Zone	6.00	191.38
9	Kitpi Ph-I	Western Zone	1.50	63.81
10	Kitpi MHS Ph-II	Western Zone	3.00	127.61
11	T. Gompa	Western Zone	0.05	2.12
12	Bongleng	Western Zone	0.10	4.25
13	Bramdhongchung	Western Zone	0.10	4.25
14	Bramdhongchung Ph-II	Western Zone	0.10	4.25
15	Rahung	Western Zone	0.75	31.91
16	Dirang	Western Zone	2.00	85.07
17	Saktangrong	Western Zone	0.30	12.76
18	Zhongdongrong	Western Zone	1.00	42.54
19	Sessa	Western Zone	1.50	63.81
20	Rupa	Western Zone	0.20	8.51
21	Dokumpani	Western Zone	0.03	1.28
22	Domkhrong	Western Zone	2.00	85.07
23	Sinchung	Western Zone	0.03	2.12
24	Ankaling	Western Zone	0.03	1.28
25	Dikshi	Western Zone	0.03	1.28
26	Khadiyabey	Western Zone	0.20	8.51
27	Jigaon	Western Zone	0.10	4.25
28	Seppa	Western Zone	0.30	12.76
29	Pakke Kessang	Western Zone	0.03	1.28
30	Pacha MHS	Western Zone	3.00	127.61
31	Pakoti	Western Zone	0.10	4.25
32	Patta Nallah	Western Zone	0.10	4.25
33	Watte Mame	Western Zone	0.05	2.12
34	Kade Nallah	Western Zone	0.05	2.12
35	Koye	Western Zone	0.05	2.12
36	Paya MHS at Hiya	Western Zone	0.10	4.25
37	Patte MHS at Tali	Western Zone	0.03	1.28
38	Chambang	Western Zone	0.03	1.28
39	Mai Ph-I	Western Zone	2.00	85.07
40	Mai Ph-II	Western Zone	1.00	42.54
41	Tago	Western Zone	4.50	191.43
42	Maro	Western Zone	0.03	1.28
	Sub Total		30.95	1253.55

				Annexure - 8.
		considered by commis	ssion	
	0&1	M Cost for FY 2020-21		
Sl. No.	Name of Station	Division/Zone	Installed Capacity (MW)	O & M COST for FY 2020-21 (Rs. In Lakh)
43	Sippi	Western Zone	4.00	170.16
44	Pinto Karo MHS	Western Zone	0.03	1.28
45	Sikin Karo	Western Zone	0.20	8.51
46	Sinyum Koro	Western Zone	0.10	4.25
47	Dulom (Daporijo)	Western Zone	0.40	17.01
48	Ayingmuri MHS	Western Zone	0.25	10.64
49	Limeking MHS	Western Zone	0.03	1.28
50	Kojin Nallah	Western Zone	0.10	4.25
51	Pagi (Basar)	Easter Zone	0.10	4.25
52	Along	Easter Zone	0.30	17.01
53	Ego-Echi (Dali)	Easter Zone	0.40	17.01
54	Mechuka	Easter Zone	0.15	6.39
55	Yomcha	Easter Zone	0.05	2.12
56	Beye	Easter Zone	0.03	1.28
57	Kambang	Easter Zone	6.00	191.38
58	Liromoba	Easter Zone	2.00	85.07
59	Yingko Sikong at Rapum	Easter Zone	0.05	2.12
60	Angu	Easter Zone	0.05	2.12
61	Solegomang MHS	Easter Zone	0.05	2.12
62	Sirikorang MHS	Easter Zone	0.50	21.27
63	Yingkiong Ph-I	Easter Zone	0.15	6.39
64	Yingkiong Ph-II	Easter Zone	0.20	8.51
65	Sikut/ Tuting	Easter Zone	0.10	4.25
66	Silli at Geku	Easter Zone	0.50	21.27
67	Sirnyuk	Easter Zone	2.00	85.07
68	Kopu at Tuting	Easter Zone	0.25	10.64
69	Silingri	Easter Zone	0.05	2.12
70	Singa	Easter Zone	0.03	1.28
71	Ngaming	Easter Zone	0.05	2.12
72	Sika	Easter Zone	0.02	0.85
73	Mayung	Easter Zone	0.01	0.21
74	Gosang	Easter Zone	0.50	21.27
75	Kote MHS	Easter Zone	0.05	2.12
76	Sijen MHS at Adi pasi	Easter Zone	0.05	2.12
77	Pyabung MHS	Easter Zone	0.03	1.28
78	Yembung	Easter Zone	2.00	85.07
79	Pasighat	Easter Zone	0.20	8.51
80	Silli	Easter Zone	0.03	1.28
81	Rina	Easter Zone	2.00	85.07
82	Deopani Ph-I	Easter Zone	0.75	31.91
	Sub Total		23.74	950.89

				Annexure - 8.
		sidered by commis		
	O&M Co	ost for FY 2020-21		
Sl. No.	Name of Station	Division/Zone	Installed Capacity (MW)	O & M COST for FY 2020-21 (Rs. In Lakh)
83	Deopani Ph-II	Easter Zone	0.75	31.91
84	Abhapani	Easter Zone	0.45	19.15
85	Anini/ Awapani Ph-I	Easter Zone	0.15	6.39
86	Awapani Ph-II	Easter Zone	0.50	21.27
87	Awapani at Gepuline	Easter Zone	0.50	21.27
88	Tah Ahfra Ph-I & Ph-II	Easter Zone	0.10	2.22
89	Chini Afra	Easter Zone	0.25	10.64
90	Echi Ahfra	Easter Zone	0.40	17.01
91	Echito Nallah	Easter Zone	0.04	1.70
92	Rupapani	Easter Zone	0.04	1.70
93	Chu Nallah	Easter Zone	0.03	1.28
94	Doorah Nallah	Easter Zone	0.50	21.27
95	Tafragram	Easter Zone	0.25	10.64
96	Tissue	Easter Zone	0.40	17.01
97	Jongkey Nallah	Easter Zone	0.03	1.07
98	Ngonalo at Vijaynagar	Easter Zone	0.10	4.25
99	Tinning	Easter Zone	0.06	2.55
100	Chicklong	Easter Zone	0.15	6.39
101	Thiratju	Easter Zone	1.00	42.54
102	Charju	Easter Zone	0.60	25.52
103	Sumhok Nallah	Easter Zone	0.10	4.25
104	Tahin Nallah	Easter Zone	0.10	4.25
105	Kaho	Easter Zone	0.01	0.42
106	Kebitho	Easter Zone	0.03	1.28
107	Mati Nallah	Easter Zone	0.50	21.27
108	Yapak Nallah	Easter Zone	0.20	8.51
109	Teepani	Easter Zone	0.50	21.27
110	Krawti Nallah	Easter Zone	0.10	4.25
111	Hathipani	Easter Zone	0.10	4.25
112	Tah Nallah	Easter Zone	0.10	4.25
113	Maipani	Easter Zone	0.06	2.55
114	Ashapani	Easter Zone	0.06	2.55
115	Langpani	Easter Zone	0.40	17.01
116	Kachopani MHS	Easter Zone	0.20	8.51
	Sub Total		8.76	370.38
	TOTAL AMOUNT (Rs. In	Lakh)	63.45	2574.82

Annexure - 9.

Assumption and Tariff Sheet for Namchik II MHS

Sl. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Arunachal Pradesh
	D G 4	G :			upto 1 MW
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	0.30
			Capacity Utilization Factor	% NI VV	45%
			Auxiliary Consumption	%	1%
			Useful Life	Years	35
2	Project Cost	Capital Cost/MW	Power Plant Cost	₹ Lacs/	420.00
3	Period		Tariff Period	Years	35
4	Sources of Fund	Debt : Equity			
			Debt	%	70%
			Equity	%	30%
			Total Debt Amount (Normative)	₹ Lacs	294.00
			Total Equity Amount	₹ Lacs	126.00
		Debt Component	Actual Loan Amount	₹ Lacs	0.00
			Moratorium Period	Years	0
			Repayment Period (include Moratorium)	Years	0
			Interest Rate	%	9.91%
		Equity Component	Equity Amount	₹ Lacs	126.00
			Return on Equity shall be 14%, to be grossed up by prevailing	% p.a.	
			Minimum Alternate Tax(MAT) as on 1st April of previous year for the entire useful life		15.60%
5	Financial Assumptions				
		Depreciation			
			Allowed Depreciation	%	90%
			Depreciation Rate for first 13 years	%	5.28%
			Depreciation Rate 14th year onwards	%	0.97%
		Incentive	Generation based incentive if any	₹ Lakh	NIL
			Period for GBI	Years	
	W. 11 ~ ~ 1:	P. D. 100			
6	Working Capital	For Fixed Charges		3.7	
		O&M Charges	(0/ 00 0) (Months	1 70/
		Maintenance Spare	(% of O&M expenses)		15%
		Receivables for Debtors		Months	2
		Interest On Working Capital		%	10.91%
7	Operation & Maintenance	±			
		(2020-21)		₹ Lacs	12.76
			& M Expenses Escalation	%	5.72%
8	Generation and Sale of En	O.		Hrs	
		Total No. of Hours		1113	

Annexure - 9.

Tariff Sheet for Namchik - II MHS

Tariii Sheet for N											RE T	ariff (Small	Hydro	Projec	, Solar	PV, W	ind Po	wer)																		
Units Generation	Unit	Year>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Installed Capacity	MW		0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Gross Generation	MU		1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183
Auxiliary	MU		0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Consumption			0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Net Generation	MU		1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171	1.171
Fixed Cost	Unit	Year>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
O&M Expenses	Rs Lakh		12.76	13.49	14.26	15.08	15.94	16.85	17.82	18.84	19.91	21.05	22.26	23.53	24.88	26.30	27.80	29.39	31.08	32.85	34.73	36.72	38.82	41.04	43.39	45.87	48.49	51.27	54.20	57.30	60.58	64.04	67.70	71.58	75.67	80.00	84.58
Depreciation	Rs Lakh		22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	22.18	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08
Interest on Term Loan	Rs Lakh		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on Working	Rs Lakh		1.36	1.39	1.42	1.46	1.50	1.54	1.58	1.63	1.67	1.72	1.78	1.83	1.89	1.62	1.69	1.76	1.83	1.91	2.00	2.08	2.18	2.28	2.38	2.49	2.61	2.73	2.86	3.00	3.15	3.30	3.46	3,63	3.82	4.01	4.21
Capital			1.50	1.39	1.42	1.40	1.50	1.54	1.50	1.03	1.07	1./2	1.76	1.00	1.07	1.02	1.09	1.70	1.65	1.71	2.00	2.00	2.10	2.20	2.36	2.47	2.01	2.73	2.00	5.00	3.13	5.50	3.40	5.05	3.62	4.01	7.21
Return On Equity	Rs Lakh		20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39	20.39
Total Fixed Cost	Rs Lakh	1	56.68	57.45	58.25	59.11	60.01	60.96	61.97	63.03	64.16	65.34	66.60	67.93	69.34	52.39	53.96	55.62	57.38	59.24	61.20	63.27	65.47	67.79	70.24	72.83	75.57	78.47	81.53	84.77	88.19	91.81	95.64	99.68	103.96	108.48	113.26
Per Unit Cost of	Unit	Year>		_		_	_		_			10		-12	12	.,	1.5	1.0	1.5	10	19	20	21	22	22	24	2.5	26	27	20	29	20	21	22	22		
Generation			1	2	3	4	3	6	/	ð	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	21	28	29	30	31	32	33	34	35
O&M Expenses	Rs/k Wh		1.09	1.15	1.22	1.29	1.36	1.44	1.52	1.61	1.70	1.80	1.90	2.01	2.12	2.25	2.37	2.51	2.65	2.81	2.97	3.14	3.32	3.51	3.71	3.92	4.14	4.38	4.63	4.89	5.17	5.47	5.78	6.11	6.46	6.83	7.22
Depreciation	Rs/k Wh		1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Int. on Term Loan	Rs/k Wh		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Int. on Working Capital	Rs/k Wh		0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.16	0.16	0.14	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.23	0.24	0.26	0.27	0.28	0.30	0.31	0.33	0.34	0.36
RoE	Rs/k Wh		1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74
Total COG	Rs/k Wh	1	4.84	4.91	4.98	5.05	5.13	5.21	5.29	5.38	5.48	5.58	5.69	5.80	5.92	4.47	4.61	4.75	4.90	5.06	5.23	5.40	5.59	5.79	6.00	6.22	6.45	6.70	6.96	7.24	7.53	7.84	8.17	8.51	8.88	9.27	9.67
Discount Factor			1.00	0.89	0.80	0.71	0.64	0.57	0.51	0.45	0.41	0.36	0.32	0.29	0.26	0.23	0.21	0.18	0.16	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02
Discounted Tariff			4.84	4.38	3.97	3.60	3.26	2.96	2.69	2.44	2.22	2.02	1.84	1.68	1.53	1.03	0.95	0.87	0.81	0.74	0.69	0.63	0.59	0.54	0.50	0.46	0.43	0.40	0.37	0.34	0.32	0.30	0.28	0.26	0.24	0.22	0.21
Levellised Tariff	Rs/Unit		5.29		·		·																														



BE, 2019-20

Name of Department: Hydropower

Antuni	2018-	19	SI.	Head of Development / Account	(Rs. in lakh) Budget
Actual 2017-18	Budget Estimate	Revised	No.	Tiedd of Bereiopinene	Estimate 2019- 20
1	2	3	4	5	6
			Α	DEVELOPMENT ACTIVITIES	
			1	On-going Schemes	
			a)	Hydel Generation	
50.00	200.00	200.00	1	Khajalong MHS at Khajalong (2 x 1000 Kw)	306.61
	45.91	45.91	2	Rapo MHS at Jayang Bagang (2 x 100 Kw)	32.00
50.00	100.00	100.00	3	Wari MHS at Khenewa Circle (2x 25 kW).	83.00
	30.00	30.00	4	Babung MHS (2 x 25 kW) at Bengde	40.00
100.00	100.00	100.00	5	Kush MHS at Sangram (2 x 1000 Kw)	571.00
			6	Parlo MHP at Parsiparlo (2 x 250 kW)	46.61 265.00
252.00	200.00		7	Pagu MHS under Palin Circle (2 x 1000 Kw)	106.04
130.08	300.00		8	Angong Nallah MHS near Janbo (3 x 1500 Kw)	10.00
	10.00	10.00	9	Sirikorang MHS Ph-II (3 x 100 kW) under Mechuka Sub- Division	
132.00			10	Subbung SHP near Subsing village (3x1000 KW)	50.00
250.00	350.00		11	C/o Tissu MHS Ph-II (2 x 250 kW)	377.00 1887.26
964.08	1335.91	1335.91		Total of Hydel Gen (a)	1007.20
				Hydel Improvement	50.00
60.00	200.00	200 00	1	Special repair & maintenance of Damaged Unit - III of Nuranang SHP Ph-I (3 x 2000 kW)	
300.00	200.00	200.00	2	Special repair of 2 x 500 kW Domkhrong Hydro Power Project at Kalaktang	
		100.00	3	Renovation & Modernization work of Sessa MHS (3 x 500 kW)	
	80.00	80.00	4	Reconstruction of rain damaged water conductor system of Khajalong MHS (2 x 750 kW) at Nafra	17.0
	82.00	82.00	5	Repair & maintenance of TG Unit-II of Pacha SHP (2 x 1500 kW); synchronising of both units i/c supply of	90.0
	55 00	55.00	6	Governor panel R & M of Pacha SHP (2 x 1500 kW) (SH : Civil Works &	50.0
50.00	50 00	50 00	7	Special Repair of Tago MHS (3 x 1500 kW) (SH Replacement of penstock pipe) i/c EM works - 3 Units	103.0
	30 00	30.00	8	Special repair and maintenance of Sippi SHP (2 x 2000 kW) (SH. Raising height of Power channel, Spillway and cover slab on sliding zone)	10.0
	25.00	25.00	9	Restoration of flood damage works at Weir intake, feeder channel, escape channel, desilting tank, silt flushing channel, power channel, forebay tank etc. of Kamba SHEP (3 x 2 MW)	3
	20.00	20.00	10	F D V MILO (4, 400 MA)	10.0
257.00	212.16	3 212 16	3 11	Protection of Forebay tank and Improvement in Powe Evacuation system of Rina SHP (2 x 1000 kW)	10.0
	30.00	30.00	12	C/o New Desilting Tank & Feeder Channel and EM worl for Pasighat MHS (2 x 100 kW)	
24.00	44.4	9 44.49	9 13		6.
31.00					20.
20.5	45.0	0 45.0	0 15	Special Repair of Charju MHS (3 x 200 kW)	15.
30.00				Total of Hydel Improv. (b	
758.0		5 1163.6		c) Buildings	
87.7	5		1	Division (SH:- T-V/1 No., T-IV/2 Nos., T-III/3 Nos., T-II/ Nos., T-I/3 Nos. & B/Barrack- 10 Units)	7
20 0	0 400	0 40.0	0 2		r 30.

Actual	2018-	19	33	Head of Development / Account	(Rs. in lakh) Budget
2017-18	Budget Estimate	Revised	No.	gar	Estimate 2019
1	2	3	4	5	6
	35.00	35.00	3	C/o Second Floor on Govt. Accommodation for DHPD at Itanagar (SH: T-IV/2 Nos., T-III/2 Nos., T-II/2 Nos. & T-I/2 Nos.)	
	15.00	15.00	4	Providing external electric service connection for Govt. accomodation of DHPD at Itanagar.	15.00
	15.00	15.00	5	C/o Boundary wall cum protection wall at Hydro Power Office Complex at Itanagar	
25.00	25.00	25.00	6	C/o RCC Boundary wait around Civil & EM Division office/Residential Hydro Power Complex at Manpoliang	20.0
	20.00	20.00	7	C/o Security fencing around Power House of Sippi SHP	10.0
	10.00	10.00	8	C/o Office Building for AE (E&M), Daporijo EM Sub- Division, DHPD	10.0
15.00	30 00	30.00	9	C/o Newly created Office building for Koloriang Civil Division, DHPD at Koloriang	10.0
16,00	30.00	30.00	10	C/o Residential Building for Civil Division staffs at Koloriang (T-IV-2 nos., T-III-3 nos.& Bachelor Barrack 5 Men	
5.00	20.00	20.00	11	C/o T-V residential building for EE(C), Koloriang	6.5
	20.00	20.00	12	C/o Security fencing around Power House of complex of Payu MHS at Koloriang	
	31.16	21.16	13	C/o Boundary wall of Division office at Aalo	28.8
	10.00			C/o foot suspension bridge at Sirikorang MHS (2 x 250 kW)	
	35.30	35 30	15	Infrastructure development of newly created Electro- Mechanical Sub Division & Civil Sub Division at Tirbin	25.0
103.00	116.51	116.51	16	C/o SE Office Building cum Residental buildings for newly created Pasighat Circle / Lower Siang-Dibang Basin (SH: Office Bldg1 No. T-V/1 No., T-III/2 Nos., T- II/4 Nos. & Bachelor Barrack - 5 Units)	
	25.00	25.00	17	C/o Compound wall for newly created SE office for Lower Signing and Dibang Basin Circle	5.0
	34.00	34.00	18	C/o Security fencing wall around DHPD complex Rock land, Tezu with M.S. Gate area 850R/Mts	51.0
			19	C/o Office building Changlang Sub-Division	10.0
	5.00			C/o 1 (one) unit B/Barrack 4 unit for operational staff for Yapak Nallah MHS (2 X 100 KW)	
	10.96	10.96		C/o Security fencing / compound wall for Division office at Hawai Hydro power Division at Hawai	
	8 00			C/o 2 Unit Bachelor Barrack for Operational staff of Kachopani MHS (2 x 100 kW)	
074.75	8.18		23	C/o R C.C office building at Khonsa EM Sub-Division	41.8
271.75	544.11	534.11	-11	Total of Buildings (c)	430.6
	2.00	2.00		Survey & Investigation Survey & Investigation of MHP at Sakio Nallah (Amen Nallah) near Veo Village	2.0
	3.00	3.00	2	Survey & Investigation of MHP at Passa river (Ph-II) at Passa Valley Circle	3.0
	1.00			Survey & Investigation over Takesidang River at Ruhi Village under Tali ADC Hq.	
0.00	6.00	6.00		Total of Survey & Invest (d)	
1993.83	2949.67	3039.67	.,	Sub-Total (I)	3332.9
			- 11	New Schemes	
				Hydel Improvement	50.0
			1	Repairing of Damaged generator (2500 KVA) of Unit No. II of Nuranang Ph-I (3 x 2 MW)	50.0



(Rs. in lakh)

Actual	2018		SI.	Head of Development / Account	Budget Estimate 2019
2017-18	Budget Estimate	Revised	No.		20
1	2	3	4	5	6
	2		2	Reconstruction of Spillway and Power Channel of Mago MHS (2 x 50 kW) at Mago (SH: Length of Spillway = 50.0 mtr. & Power Channel = 150.0 mtr.)	20.00
			3	Realignment of Power Channel and feede channel of Shakti Hydel Station (2 x 50 kW)	20.00
			4	Reconstruction of Power Channel, Spillway and Sluice Valve of Tsechu MHS (2 x 50 kW) at Tsechu	20.0
			5	Reconstruction of Spillway Channel , Scour Pipe and Forebay Tank of Thingbu MHS (2 x 50 kW)	20.0
			6	C/o Desilting Tank of Chellengkang Ph-I & Ph-II (1 x 30 kW)	20.0
			7	Reconstruction of rain damages of Power Channel of Zhagdongrong Hydel Station (2 x 500 kW) (SH: Length of Power Channel = 35.00 mtr. Retaining wall = 25.0 mtr. & slip clearance = 40.0 mtr.)	35.0
			8	Complete replacement of old turbine and generator set of Unit-III of Rahung Hydel Station (3x250 kW) and improvement of switchyard and external protection system.	
				The state of August March 1 and MAN	15.0
			9	Special repair of Angkaling MHS (1 x 30 kW)	15.0
			10	Special repair of Dokumpani MHS (1 x 30 kW) Reconstrution of flood damage of Power Channel of Pacha SHP (2 x 1500 kW) (SH. Length of Power Channel = 47.0 mtr., Aquaduct = 1 No. of span 15.0 mtr. with abutment & length Retaining wall = 85.0 Mtr. with	150.0
			12	4.5 mtr. depth) Augmentation of Pakke Kessang MHS (30 KW) to 100 kW (procurement of new TG 2x50 kW) sits with its control panel and protection panel, board and C/o	
_			13	0.415/1.1 kv step up sub-station. Reconstruction of rain damages of Spillway Channel of Sippi SHP (2 x 2000 kW) (SH: Length of Spillway Channel = 35.20 mtr. & Retaining wall 35.20 mtr.)	30.
			14	Special repair of Penstock pipes, expansion joints and other hydromechanical equipments of Dulom MHS (2 200 kW) including extension of Spillway Channel & Protection work (SH: Expansion Joints = 5 Nos. & length	3
			15	of Spillway Channel = 118.00 mtr.) Special repairs & maintenance of Sikin Koro MHS (2x10 kW) at Bui (SH : Re-construction of rain damaged Power Channel & EM works).	15
			16	structures of Payu MHS (2 x 250 kW) at Pinchi (St Length Weir = 12.0 mtr., Feeder Channel = 35.0 mtr Power Channel = 50.0 mtr. & Retaining Wall = 105	0
			17	mtr.) 7 Special repair of Chate MHS (1 x 30 kW)	7
			18	3 C/o Cross drainage works (Aqueducts & culvert) at Pag	
		15	Repair, replacement & refurbishment of damaged E		
			2	t t all an of Angong Nollah SHP	1
			2	1 Special repair of Singha MHS (1 x 30 kW)	11
				Special repair of Sirnyuk SHP (2 x 1000 kW) (S Supply, erection, testing and commissioning of electron governor & SEU panel)	H: 3

Actual	2018	-19	Sien	Head of Development / Account	Budget Estimate 2019-
017-18	Budget	Revised	No.		20
-	Estimate 2	3	4	5	6
1	2		23 Sp er	pecial repair of Kopu MHS (1 x 250 kW) (SH: Supply, ection, testing and commissioning of TG control panel (OPU)	25.00
			24 R	epair and maintenance of Gossang MHS (2x 250 kW) H. Repairing of Electronic governor and synchronizing	
			25 S	pecial repair of Yingkiong Ph-II MHS (2 x 100 kW) (SH: upply erection, testing & commissioning of ELC panel	15.00
			W	ith dummy load tank)	15.00
			26 S 27 S	pecial repair of Sille MHS (2 x 250 kW) at Geku pecial repair of E&M equipments of Pasighat MHS (2 x	
			28 U	00 kW) Ipgradation of existing switchyard for Pasighat MHS (2 x	15.00
			1	00 kW) special repair of Electro-Mechanical equipments of	
			K	Amba SHEP (3 x 2 MW) including replacement of all yorn out equipments like CT, PT, LA and insulators etc and Installation of New Electronic Governor for Unit-I.	
		-	30 8	Special repair of Liromoba SHP (2 x 1000 kW) (SH: Repairing of AVR panel and CT/PT) i/c EM works	40.00
			74	Special repair of Aalo MHS (4 x 100 kW)	10.00
	-		32 5	Special repair of Dali MHS (4 x 100 kW) (SH:- Civil and	60.00
	1		33 5	E&M Works) Special repair of Pagi SHP (2 x 50 kW) (SH:- E & N	25.0
			1	Works) Special repair of Sirikorong MHS (2 x 250 kW) (SH: We	
				Intake)	
			35	Modification of Spillway of Subbung SHP (2x1500Kw)	50.0
				Special repair of Yembung SHP (4 x 500 kW) (Shestoration of weir & intake, protection structures to power channel and including repair & replacement of Electroproperty).	0
		-	37	Spl. Repair of Awapani MHS (2 x 250 KW) at Gepuline	30.0
			38	Special repair of damaged weir intake at Chini Afra MH (1 x 250 kW)	S 15.0
				Restoration works of Chu Nallah MHS (2 x 15 kW)	8.0
			39 40	Modification of Turbine Governoring system of Tafraga	
			41	MHS (1x250Kw) Repairing of Penstock pipe and Governing syste	m 25.0
			42	maintenance of Tafragam MHS (1 x 250Kw) Special repair of Mati Nallah MHS (2 x 250 KW) (E	M 10.
			43	Works) Special repair ing of Teepani MHS (2 x 250 kW) (S	H: 35.
			44	Renovation of control panel of Charju MHS (3 x 250 kV	N) 20.
			45	Restoration of damaged power channel a improvement of govering system of Unit-I of Tirati	nd 25.
			46	MHS (4 x 250 kW) Special repair of Tinning MHS (2 x 30 kW) (S	SH: 30
				Reconstruction of feeder channel)	116
			47	Special repair of Tissue MHS Ph-I (4 x 100 kW) Total of Hydel Improv.	
			b	Buildings	15
			1	C/o Office Building of Jang Civil Sub-Division at Jang	15

2693.83

3749.67

3839.67

Actual	201	8-19	SI.	Head of D	(Rs. in lakh
2017-18	Budget	Revised	No.	Head of Development / Account	Budget
1	Estimate				Estimate 2019 20
- 1	2	3	4	5	0
			2	C/o residential building for staff quarter under Lumla Civil Sub-Division (T-III/1 No. & T-II/1 No.)	12.76
			3	CC Flooring to DHPD Residential complex at Itanagar	20.00
			4	Slab cover on Nallah of DHPD Residential Complex	
			5	C/o Boundary wall cum protection Wall at Hydro Power Office complex, Itanagar, Chainage between Culvert point to 47.95 m (SH: RCC river training wall and RCC protection cum boundary wall)	25.00 25.00
			6	C/o SE's Office Building Cum Residental buildings for newly shifted Subansiri Basin to Ziro (SH: Office Bldg1 No. T-V/1 No., T-III/2 Nos., T-II/4 Nos. & Bachelor Barrack - 5 Units)	12.75
			7	C/o Staff Quarter for JE at Tali (SH: T-III/1 No.)	10.00
	1 1 1	La	8	C/o staff quarter at intake & forebay tank of Angong nallah (SH: 4 men B/barracck)	12.00
			9	Infrastructure development of Division office complex at Geku.	10.00
			10	Security Fencing around Hydro Power Complex at Namsai	100.00
				Total of Buildings (b)	242.51
				Survey & Investigation	212.01
			1	S&I of Pemashulfu MHS (3 x 250 kW) near Mechuka	2.00
			2	S&I Pibung MHS (2 x 250 kW) over Pibung river at Tumbin	2.00
0.00	0.00	2.00		Total of Survey & Invest (c)	4.00
0.00	0.00	0.00		Sub-Total (III)	2017.01
700.00	800.00	900.00	111	Maintenance of Assets	
100.00	000.00	800.00	1 2	Hydel Station, Building, Petty Works etc.	800.00
700.00	800.00	800.00		Logistic support for strengthening of the Chief Engineer (P&D) - Establishment (SH. Design Tools & Equipment, Drawing Tools & Equipment, Training Equipment / Accessories, Exposure Technical Tour within the Country and Abroad etc.)	200.00
	300.00	000.00	-	Sub-Total (III)	1000.00
2693.83	3749.67	3839.67		Total : (A)	6350.00
				New	
-			1	Capacity Building, Public Sensitization / awareness / Confidence Building, Development of Software for Monitoring System and Legal / Consultancy Services for Hydro Power Development in Arunachal Pradesh	500.00
0.00	0.00	0.00		Total: (B)	500.00
			- 1		

GRAND TOTAL : (A) + (B) + (C)

6850.00



APPLICATION

FOR

ANNUAL REVENUE REQUIREMENT (ARR)

&

TARIFF PETITION FOR

FY 2020-21

PART - B

Submitted by: Department of Hydro Power Development - 2020

Index

Check list of forms and other documents for Annual Revenue Requirement filing by Generation Licencee			
Format No.	Title of Format	Page No.	
Format - HG1	Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)	page i (1) - i (124)	
Format - HG2	Design Energy and MW Continuous (month-wise) Run of River Type Stations	page ii (1) - ii (124)	
Format - HG3	Annual Revenue Requirement	page iii	
Format - 2	Total Number of Employee	page iv	
Format - 3	Employees Productive Parameters	page v	
Format - 13	Investment Plan (Scheme - Wise)	page vi	
Format - 14	Investment Plan (Year - Wise)	page vii	

Name of the Hydro Generating Station : Chellengkang Ph-I State/ Distt. Arunachal Pradesh/ Tawang District

	ls of Cod, Type of Hydro Stations,		Annual Plant A	vailahility
	or (NAPAF)	TOTHIALIV	z z minaar r iam, z i	vanaomiy
1 acto	& other normative para	meters cor	sidered for Tarif	f
Sl.	•		2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	30	30
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including	%	1.000/	1.000/
/	Transformation losses	%0	1.00%	1.00%
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	30	30
10.3	Peaking capacity during lean period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Chellengkang Ph-II State/ Distt. Arunachal Pradesh/ Tawang District

	ils of Cod, Type of Hydro Stations,	•	Annual Dlant A	voilobility
	or (NAPAF)	INOIIIIauv	Allitual I Ialit, A	ivaliauliliy
racio	& other normative para	meters cor	sidered for Tarif	f
Sl.	& other normative para	incicis coi	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	30	30
2	Free Power to home state	%	NIL NIL	NIL
3	Date of commercial operation	70	TVIE	TVIL
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including	%	1.00%	1.00%
,	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x	KW	30	30
10.2	MW)	1Z AA	50	50
10.3	Peaking capacity during lean			
	period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Shakti Nallah State/ Distt. Arunachal Pradesh/ Tawang District

	ls of Cod, Type of Hydro Stations,		- Annual Plant A	vailability
	or (NAPAF)	1 (Olliati)	2 1 Hilliaar 1 Tairt, 7 1	vanaonity
1 4010	& other normative para	meters cor	sidered for Tarif	f
Sl.	es omer norman ve para		2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation	70	TVIE	TVIL
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.83	0.83
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability Factor (NAPAF)	%		
0.1	·	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
	Installed Capacity (Bo of Units x MW)	KW	100	100
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
10.5	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Thimbu State/ Distt. Arunachal Pradesh/ Tawang District

Souther normative parameters considered for Tariff Sl. No. Description Unit Estimated (Projected)	Detai	Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor				
Sl. No. Description Unit 2019-20 (Estimated) (Projected)	(NAF					
No. Description Unit (Estimated) (Projected)		& other normative para	meters cor			
No.		Description	Unit			
2 Free Power to home state % NIL NIL	No.	*	Omt			
Date of commercial operation						
Unit - 1	2		%	NIL	NIL	
Unit - 2	3					
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity Mine Interval Rate Prime lending Rate of SBI as on April' 2017 Type 10.1 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)						
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)	4					
c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity %		a) Surface/ underground				
d) No of hours of peaking e) Overload capacity (MW) & period		b) Purely ROR/ Pondage/ Storage				
e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual)						
period		d) No of hours of peaking				
5 Type of excitation a) Rotating exciters on generator b) Static excitation b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) % Rs. Lakh 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) KW 100 100 10.4 Type of Turbine Rated Head (M) Rated Head (M) K		e) Overload capacity (MW) &				
a) Rotating exciters on generator b) Static excitation		period				
b) Static excitation Comparison Compar	5	Type of excitation				
6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) %		a) Rotating exciters on generator				
7 Auxiliary Consumption including Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) % 8 9.1 Maintenance Spares for WC Rs. Lakh 14 9.2 Receivable for WC R. Lakh 14 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) Peaking capacity during lean period (MW) 10.5 Rated Head (M)		b) Static excitation				
Transformation losses	6	Design Energy (Annual)	Mus	0.83	0.83	
Factor (NAPAF)	7		%	1.00%	1.00%	
9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Type 100 100 10.2 Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) Type of Turbine Installed Head (M) Installed Head (M)	8		%			
9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) Peaking capacity during lean period (MW) Installed Head (M) Installed Head (M)	0.1	·	Rs.			
9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Type 100 100 10.2 Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) Type of Turbine Type of Turbine 10.5 Rated Head (M) Type of Turbine Type of Turbine	9.1	Maintenance Spares for WC	Lakh			
9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Installed Capacity (Bo of Units x MW) KW 100 100 10.3 Peaking capacity during lean period (MW) Peaking capacity during lean period (MW) Installed Capacity (Bo of Turbine) Installed Capacity during lean period (MW) 10.4 Type of Turbine Installed Capacity (Bo of Turbine) Installed Capacity (Bo of Units x MW)	9.2	Receivable for WC	R. Lakh			
9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.3	Base Rate of return on equity	%	14	14	
9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.4	Tax Rate	%	Not Applicable	Not Applicable	
10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.5	=	%		12.90%	
MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	10.1	Type				
period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		Installed Capacity (Bo of Units x	KW	100	100	
10.5 Rated Head (M)		period (MW)				
	10.4	Type of Turbine				
10.6 Rated Discharge (Cumes)	10.5	Rated Head (M)				
	10.6	Rated Discharge (Cumes)				

Name of the Hydro Generating Station : Khet State/ Distt. Arunachal Pradesh/ Tawang District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF	PAF)			
	& other normative para	meters cor	sidered for Tarif	f
Sl.	Description	Unit	2019-20	2020-21
No.	Description	Omi	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.83	0.83
7	Auxiliary Consumption including	%	1.000/	1 000/
/	Transformation losses	%0	1.00%	1.00%
0	Normative Plant Availability	%		
8	Factor (NAPAF)	%0		
0.1	M. A. C. C. W.C.	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
0.5	Prime lending Rate of SBI as on	0/		
9.5	April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x	VIII	100	100
10.2	MW)	KW	100	100
10.2	Peaking capacity during lean			
10.3	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			
	S \ /			

Name of the Hydro Generating Station: Tsechu Nallah

State/ Distr. Arunachal Pradesh/ Tawang District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

	ils of Cod, Type of Hydro Stations,	Normative	e Annual Plant, A	vailability Factor
(NAI		ma at ama a a m	aidanad fan Tanif	c
CI	& other normative para	meters con		
Sl.	Description	Unit	2019-20	2020-21
No.	-	77777	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.83	0.83
7	Auxiliary Consumption including	0./	1.000/	1.000/
7	Transformation losses	%	1.00%	1.00%
0	Normative Plant Availability	0./		
8	Factor (NAPAF)	%		
0.1	·	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
	Base Rate of return on equity	%	14	14
	Tax Rate	%	Not Applicable	Not Applicable
	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Type			
	Installed Capacity (Bo of Units x			
10.2	MW)	KW	100	100
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.5				

Name of the Hydro Generating Station : Mago MHS State/ Distt. Arunachal Pradesh/ West Kameng

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

(NAI	PAF)			·
	& other normative para	meters cor	sidered for Tarif	f
Sl.	D	TT. '4	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.83	0.83
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	%0	1.00%	1.00%
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	100	100
10.3	Peaking capacity during lean period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Nuranang State/ Distt. Arunachal Pradesh/ Tawang District

	Distr. Arunachal Pradesh/ Tawang Distri		Namt Arrailability F	noton (NADAE)
Details	of Cod, Type of Hydro Stations, Normati			actor (NAPAF)
C1	& other normative param	icters consi		2020 21
Sl.	Description	Unit	2019-20	2020-21
No.	-	****	(Estimated)	(Projected)
1	Installed Capacity	KW	6000	6000
2	Free Power to home state	%	NIL	NIL
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	49.93	49.93
	Auxiliary Consumption including	Ivius	77.73	77.73
7	Transformation losses	%	1.00%	1.00%
	Normative Plant Availability Factor			
8	· · · · · · · · · · · · · · · · · · ·	%		
	(NAPAF)	D		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Type			
10.2	Installed Capacity (Bo of Units x MW)	KW	6000	6000
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
10.5	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Kitpi Ph-I State/ Distt.: Arunachal Pradesh/ Tawang District

	s of Cod, Type of Hydro Stations,	Normative	e Annual Plant, Availa	ability Factor
(NAP	,		: 1 1 f T: ff	
C1	& other normative pa	rameters (2020.21
Sl. No.	Description	Unit	2019-20 (Estimated)	2020-21 (Projected)
	Installed Capacity	KW	1500	1500
	Free Power to home state	%	NIL	NIL
	Date of commercial operation	,,,	1,12	1,12
	Unit – 1			
	Unit – 2			
	Unit – 3			
4	Type of Station			
8	a) Surface/ underground			
1	b) Purely ROR/ Pondage/ Storage			
(c) Peaking/ non-peaking			
	d) No of hours of peaking			
(e) Overload capacity (MW) &			
- 11	period			
	Type of excitation			
	a) Rotating exciters on generator			
	b) Static excitation			
	Design Energy (Annual)	Mus	12.48	12.48
/	Auxiliary Consumption including	%	1.00%	1.00%
	Transformation losses			
1 X I	Normative Plant Availability	%		
	Factor (NAPAF)			
9.1	Maintenance Spares for WC	Rs.		
9.2	Receivable for WC	Lakh		
	Base Rate of return on equity	%	14	14
	Tax Rate	%	Not Applicable	Not Applicable
	Prime lending Rate of SBI as on		**	
951	April' 2019	%	13.80%	12.90%
10.1				
	Installed Capacity (No. of Units x	KW	1500	1500
10.2	KW)	KW	1500	1500
10.3	Peaking capacity during lean			
1	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Kitpi MHS Ph-II State/ Distt. Arunachal Pradesh/ Tawang District

	ls of Cod, Type of Hydro Stations,		Annual Dlant A	voilobility
	or (NAPAF)	Normany	Z Allitual I lailt, A	vanaomity
1 acto	& other normative para	meters cor	sidered for Tarif	f
Sl.	*	incters con	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	3000	3000
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation	70	TVIL	TVIL
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	24.97	24.97
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability Factor (NAPAF)	%		
0.1	·	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	•			
	Installed Capacity (Bo of Units x MW)	KW	3000	3000
10.3	Peaking capacity during lean period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : T. Gompa State/ Distt. Arunachal Pradesh/ Tawang District

	ls of Cod, Type of Hydro Stations, N	Vormative A	Annual Plant, Ava	ilability Factor
(NAP	& other normative para	motors oor	sidered for Torif	f
Sl.	& other normative para	illeters cor	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	50	50
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation	, ,	1,12	TUL
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.42	0.42
7	Auxiliary Consumption including	%	1.00%	1.00%
,	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	50	50
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Bongleng State/ Distt. Arunachal Pradesh/ Tawang District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor		
(NAF	,					
	& other normative parameters considered for Tariff					
Sl.	Description	Unit	2019-20	2020-21		
No.	-		(Estimated)	(Projected)		
1	Installed Capacity	KW	100	100		
2	Free Power to home state	%	NIL	NIL		
3	Date of commercial operation					
	Unit – 1					
	Unit – 2		1			
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) Rotating exciters on generator					
	b) Static excitation					
6	Design Energy (Annual)	Mus	0.83	0.83		
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%		
8	Normative Plant Availability Factor (NAPAF)	%				
0.4	,	Rs.				
9.1	Maintenance Spares for WC	Lakh				
9.2	Receivable for WC	R. Lakh				
9.3	Base Rate of return on equity	%	14	14		
9.4	Tax Rate	%	Not Applicable	Not Applicable		
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%		
10.1	Туре					
10.2	Installed Capacity (Bo of Units x MW)	KW	100	100		
10.3	Peaking capacity during lean period (MW)					
	Type of Turbine					
	Rated Head (M)					
10.6	Rated Discharge (Cumes)	-				

Name of the Hydro Generating Station : Bramdhongchung State/ Distt. Arunachal Pradesh/ Tawang District

	Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability				
	or (NAPAF)	1 (Ollinati) (7 11111441 1 14111, 7 1	· · unuo mi	
& other normative parameters considered for Tariff					
Sl.	•		2019-20	2020-21	
No.	Description	Unit	(Estimated)	(Projected)	
1	Installed Capacity	KW	100	100	
2	Free Power to home state	%	NIL	NIL	
3	Date of commercial operation				
	Unit – 1				
	Unit – 2				
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) Rotating exciters on generator				
	b) Static excitation				
6	Design Energy (Annual)	Mus	0.83	0.83	
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%	
8	Normative Plant Availability Factor (NAPAF)	%			
0.1	, , ,	Rs.			
9.1	Maintenance Spares for WC	Lakh			
9.2	Receivable for WC	R. Lakh			
9.3	Base Rate of return on equity	%	14	14	
9.4	Tax Rate	%	Not Applicable	Not Applicable	
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%	
10.1	Туре				
	Installed Capacity (Bo of Units x MW)	KW	100	100	
10.3	Peaking capacity during lean period (MW)				
10.4	Type of Turbine				
10.5	Rated Head (M)				
10.6	Rated Discharge (Cumes)				

Name of the Hydro Generating Station : Bramdhongchung Ph-II

State/ Distt. Arunachal Pradesh/ Tawang District

Detai	Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor				
(NAI	PAF)				
	& other normative para	meters cor	sidered for Tarif	f	
Sl.	Dogarintian	Unit	2019-20	2020-21	
No.	Description	Ollit	(Estimated)	(Projected)	
1	Installed Capacity	KW	100	100	
2	Free Power to home state	%	NIL	NIL	
3	Date of commercial operation				
	Unit – 1				
	Unit – 2				
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) Rotating exciters on generator				
	b) Static excitation				
6	Design Energy (Annual)	Mus	0.83	0.83	
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%	
8	Normative Plant Availability Factor (NAPAF)	%			
0.1	·	Rs.			
9.1	Maintenance Spares for WC	Lakh			
9.2	Receivable for WC	R. Lakh			
9.3	Base Rate of return on equity	%	14	14	
9.4	Tax Rate	%	Not Applicable	Not Applicable	
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%	
10.1	Туре				
10.2	Installed Capacity (Bo of Units x MW)	KW	100	100	
10.3	period (MW)				
10.4	Type of Turbine				
	Rated Head (M)				
10.6	Rated Discharge (Cumes)				

Name of the Hydro Generating Station : Mukto State/ Distt. Arunachal Pradesh/ Dibang Valley District

_	ils of Cod, Type of Hydro Stations,			vailability Factor
(NAF	**	Nomative	Alliluai Flailt, A	valiability Factor
(11111	& other normative para	meters cor	sidered for Tarif	f
Sl.	_		2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	6000	6000
2	Free Power to home state	%	NIL	NIL
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 MHS			
	e) Overload capacity (MW) &			
	period			
5	Type of excitation			
	a) Rotating exciters on generator			
	b) Static excitation]	
6	Design Energy (Annual)	Mus	49.93	49.93
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability Factor (NAPAF)	%		
	,	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	6000	6000
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			
	,			

Name of the Hydro Generating Station : Nuranag Ph-II State/ Distr. Arunachal Pradesh/ Dibang Valley District

	/ Distt. Arunachal Pradesh/ Dibang	•		
	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAI	,			
	& other normative para	meters con	sidered for Tarif	f
Sl.	Description	Unit	2019-20	2020-21
No.	Description	Omi	(Estimated)	(Projected)
1	Installed Capacity	KW	1000	1000
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
4	Type of Station			
	a) Surface/ underground			
	b) Purely ROR/ Pondage/ Storage			
	c) Peaking/ non-peaking			
	d) No of hours of peaking MHS			
	e) Overload capacity (MW) &			
	period			
5	Type of excitation			
	a) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	8.32	8.32
7	Auxiliary Consumption including	0/	1.000/	1.00%
/	Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability	%		
8	Factor (NAPAF)	%0		
0.1		Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
	Installed Capacity (Bo of Units x MW)	KW	1000	1000
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			
10.0	Time 2 iboliai 50 (Callieb)]	

Name of the Hydro Generating Station : Rahung State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff 2020-21 Sl. 2019-20 Unit Description (Estimated) No. (Projected) 750 Installed Capacity KW 750 Free Power to home state % NIL NIL Date of commercial operation Unit - 1Unit – 2 Unit - 3Type 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 6.24 6.24 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity 14 % 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 750 750 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Dirang State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description (Estimated) No. (Projected) Installed Capacity 1 KW 2000 2000 2 Free Power to home state NIL NIL % Date of commercial operation Unit -1Unit – 2 Unit - 3Unit - 44 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 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 16.64 16.64 Mus Auxiliary Consumption including % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 2000 2000 Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station : Saktangrong MHS State/ Distt. Arunachal Pradesh/ West Kameng District

_	ils of Cod, Type of Hydro Stations,			voilability Factor
(NAI	**	normanve	Aimuai Piam, A	valiability Factor
(11/11	& other normative para	meters con	sidered for Tariff	f
Sl.	_	meters con	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	300	300
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation	70	TVIE	TVIL
	Unit – 1			
	Unit – 2			
	Unit – 3			
4	Type of Station			
	a) Surface/ underground			
	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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	2.50	2.50
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	%0	1.00%	1.00%
8	Normative Plant Availability	%		
0	Factor (NAPAF)	%0		
0.1	Maintananaa Smaraa fan W.C.	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on	%	13.80%	12.90%
9.3	April' 2017	%0	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	300	300
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
			1	

Name of the Hydro Generating Station : Zhongdongrong State/ Distt. Arunachal Pradesh/ West Kameng District

	State/ Distt. Arunachal Pradesh/ West Kameng District					
	Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor					
(NAF	(NAPAF)					
	& other normative parameters considered for Tariff					
Sl.	Description	Unit	2019-20	2020-21		
No.	Description	Oilit	(Estimated)	(Projected)		
1	Installed Capacity	KW	1000	1000		
2	Free Power to home state	%	NIL	NIL		
3	Date of commercial operation					
	Unit – 1					
	Unit – 2					
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) Rotating exciters on generator					
	b) Static excitation					
6	Design Energy (Annual)	Mus	8.32	8.32		
7	Auxiliary Consumption including		1.000/	1.000/		
/	Transformation losses	%	1.00%	1.00%		
0	Normative Plant Availability	0/				
8	Factor (NAPAF)	%				
0.1	M · A C C WC	Rs.				
9.1	Maintenance Spares for WC	Lakh				
9.2	Receivable for WC	R. Lakh				
9.3	Base Rate of return on equity	%	14	14		
9.4	Tax Rate	%	Not Applicable	Not Applicable		
9.5	Prime lending Rate of SBI as on	%		12 000/		
9.3	April' 2017	%0	13.80%	12.90%		
10.1	Туре					
10.2	Installed Capacity (Bo of Units x MW)	KW	1000	1000		
10.0	Peaking capacity during lean					
10.3	period (MW)					
10.4	Type of Turbine					
	Rated Head (M)					
	Rated Discharge (Cumes)					
				·		

Name of the Hydro Generating Station : Sessa

State/ Distt. Arunachal Pradesh/ West Kameng District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF	,			
	& other normative para	meters cor	sidered for Tarif	f
Sl.	Description	Unit	2019-20	2020-21
No.	Description	Ollit	(Estimated)	(Projected)
1	Installed Capacity	KW	1500	1500
2	Free Power to home state	%	NIL	NIL
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	12.48	12.48
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	/0	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
0.1	M-intonono Suomo for WC	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
0.5	Prime lending Rate of SBI as on	07		
9.5	April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x	VW	1500	1500
10.2	MW)	KW	1500	1500
10.2	Peaking capacity during lean			
10.3	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			
	<i>G</i> (<i>)</i>		<u> </u>	

Name of the Hydro Generating Station : Rupa

State/ Distt. Arunachal Pradesh/ West Kameng District

	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor		
(NAI		matara aon	usidarad far Tarif	r		
CI	& other normative parameters considered for Tariff					
Sl. No.	Description	Unit	2019-20 (Estimated)	2020-21 (Projected)		
1	Installed Capacity	KW	200	200		
2	Free Power to home state	%	NIL	NIL		
3	Date of commercial operation	70	TUL	TVIL		
	Unit – 1					
	Unit – 2					
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) Rotating exciters on generator					
	b) Static excitation					
6	Design Energy (Annual)	Mus	1.66	1.66		
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%		
8	Normative Plant Availability Factor (NAPAF)	%				
0.1	, ,	Rs.				
9.1	Maintenance Spares for WC	Lakh				
9.2	Receivable for WC	R. Lakh				
9.3	Base Rate of return on equity	%	14	14		
9.4	Tax Rate	%	Not Applicable	Not Applicable		
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%		
10.1	Туре					
10.2	IMW)	KW	200	200		
10.3	Peaking capacity during lean period (MW)					
10.4	Type of Turbine					
	Rated Head (M)					
10.6	Rated Discharge (Cumes)					

Name of the Hydro Generating Station : Dokumpani State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

(NAI	PAF)			
	& other normative para	meters con	sidered for Tarif	f
Sl.	D	TT. '4	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	30	30
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability Factor (NAPAF)	%		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	30	30
10.3	Peaking capacity during lean period (MW)			
	Type of Turbine			
10.5	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Domkhrong State/ Distt. Arunachal Pradesh/ West Kameng District

Solitor Description Unit 2019-20 2020-21	Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
SI	(NAF	PAF)			
No. Description Unit (Estimated) (Projected)		& other normative para	meters con	sidered for Tarif	f
No. Cestimated Projected	Sl.	Description	I Init	2019-20	2020-21
2 Free Power to home state % NIL NIL	No.	Description	Ollit	(Estimated)	(Projected)
Date of commercial operation Unit - 1 Unit - 2	1	Installed Capacity	KW	2000	2000
Unit - 1	2	Free Power to home state	%	NIL	NIL
Unit - 2	3	Date of commercial operation			
Type of Station		Unit – 1			
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity Mot Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		Unit – 2			
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	4	Type of Station			
c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 16.64 16.6		a) Surface/ underground			
d) No of hours of peaking e) Overload capacity (MW) & period		b) Purely ROR/ Pondage/ Storage			
d) No of hours of peaking e) Overload capacity (MW) & period		c) Peaking/ non-peaking			
period					
5 Type of excitation a) Rotating exciters on generator b) Static excitation b) Static excitation 6 Design Energy (Annual) Mus 16.64 16.64 7 Auxiliary Consumption including Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) % Rs. Lakh 9.1 Maintenance Spares for WC Rs. Lakh Lakh 9.2 Receivable for WC R. Lakh Not Applicable Not Applicable 9.3 Base Rate of return on equity % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Reserved Turbine Reserved Turbine Reserved Turbine 10.5 Rated Head (M) Reserved Turbine Reserved Turbine Reserved Turbine		e) Overload capacity (MW) &			
a) Rotating exciters on generator b) Static excitation		period			
b) Static excitation Comparison Compar	5	Type of excitation			
Design Energy (Annual) Mus 16.64 16.64 Auxiliary Consumption including Transformation losses 1.00% Normative Plant Availability Factor (NAPAF) % 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type		a) Rotating exciters on generator			
7 Auxiliary Consumption including Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) %		b) Static excitation		1	
Transformation losses	6	Design Energy (Annual)	Mus	16.64	16.64
Transformation losses	7		%	1.00%	1.00%
Factor (NAPAF)			, 0	110070	1,0070
9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Type 2000 2000 10.2 Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Type of Turbine Type of Turbine 10.5 Rated Head (M) Type of Turbine Type of Turbine	8	· · · · · · · · · · · · · · · · · · ·	0/0		
9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Type Type 10.2 Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Type of Turbine Type of Turbine 10.5 Rated Head (M) KM Type of Turbine		Factor (NAPAF)			
9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Frime lending Rate of SBI as on April' 2017 KW 2000 2000 10.2 Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Frime lending Rate of SBI as on April' 2017 KW 2000 2000 10.4 Type of Turbine Frime lending Rate of SBI as on April' 2017 KW 2000 2000	9.1	Maintenance Spares for WC	Rs.		
9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type KW 2000 2000 10.2 Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Feed to the period of		_			
9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) Peaking Capacity (Bo of Units x MW) W 2000 2000 10.4 Type of Turbine Installed Capacity (Bo of Units x MW)	9.2	Receivable for WC			
9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90% 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) KW 2000 2000 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.3	Base Rate of return on equity			
9.5 April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.4		%	Not Applicable	Not Applicable
April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.5		0/0	13 80%	12 90%
10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		±	/0	13.0070	12.70/0
MW) RW 2000 2000 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)					
period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	10.2	MW)	KW	2000	2000
10.4 Type of Turbine 10.5 Rated Head (M)	10.3				
10.5 Rated Head (M)	10.4	Type of Turbine			
10.6 Pated Discharge (Cumes)					
10.0 [Nated Discharge (Cullies)	10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Sinchung State/ Distt. Arunachal Pradesh/ West Kameng District

Detai	ls of Cod, Type of Hydro Stations,	Normative	e Annual Plant, A	vailability Factor
(NAI				
	& other normative para	meters con		f
Sl.	Description	Unit	2019-20	2020-21
No.	-		(Estimated)	(Projected)
1	Installed Capacity	KW	50	50
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.42	0.42
7	Auxiliary Consumption including	0/	1.00%	1.00%
/	Transformation losses	%	1.00%	1.00%
8	Normative Plant Availability	%		
٥	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	50	50
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Ankaling State/ Distt. Arunachal Pradesh/ West Kameng District

	ils of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF				
	& other normative para	meters cor		
Sl.	Description	Unit	2019-20	2020-21
No.	-		(Estimated)	(Projected)
	Installed Capacity	KW	30	30
	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs.		
9.1	Maintenance Spares for WC	Lakh		
	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	30	30
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			

Name of the Hydro Generating Station: Dikshi

State/ Distt. Arunachal Pradesh/ West Kameng District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF	PAF)			-
	& other normative para	meters con	sidered for Tarif	f
Sl.	Description	Unit	2019-20	2020-21
No.	Description	Ullit	(Estimated)	(Projected)
1	Installed Capacity	KW	30	30
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	70		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	30	30
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Khadiyabey State/ Distt. Arunachal Pradesh/ West Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

(NAI	PAF)			
	& other normative para	meters con	sidered for Tarif	f
Sl.	Danamintian	T T 14	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	200	200
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	1.66	1.66
7	Auxiliary Consumption including	%	1.00%	1.00%
,	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	/0		
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x MW)	KW	200	200
10.3	Peaking capacity during lean period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station: Jigaon

State/ Distt. Arunachal Pradesh/ West Kameng District

Solition Content Con		ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
SI. Description Unit 2019-20 (Projected)	(NAI	,		: 1 1 £ T:£	c
No.	G1	& other normative para	meters cor		
No. (Estimated) (Projected)		Description	Unit		
2 Free Power to home state % NIL NIL		•			` * ·
Date of commercial operation	_				
Unit – 1 Unit – 2 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 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 R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)			%	NIL	NIL
Unit - 2	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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)					
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 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 R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)					
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	4	Type of Station			
c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)		a) Surface/ underground			
d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)		b) Purely ROR/ Pondage/ Storage			
d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.4 Type of Turbine 10.5 Rated Head (M)		c) Peaking/ non-peaking			
e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC P.2 Receivable for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)					
5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC R. Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		e) Overload capacity (MW) &			
a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 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 R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		· _ · _ · _ ·			
a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 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 R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	5	Type of excitation			
b) Static excitation 6 Design Energy (Annual) Mus 0.83 0.83 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)					
7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)				1	
7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	6	/	Mus	0.83	0.83
Transformation losses Normative Plant Availability Factor (NAPAF) 9.1 Maintenance Spares for WC Rs. Lakh 9.2 Receivable for WC 9.3 Base Rate of return on equity 9/6 Not Applicable 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	7		0/	1.000/	1.000/
Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	/		%0	1.00%	1.00%
Factor (NAPAF) 9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)		Normative Plant Availability	0./		
9.1 Maintenance Spares for WC 9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	8	I -	%		
9.2 Receivable for WC 9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	0.1	M. A. S. S. W.C.	Rs.		
9.3 Base Rate of return on equity 9.4 Tax Rate 9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.1	Maintenance Spares for WC	Lakh		
9.4 Tax Rate	9.2	Receivable for WC	R. Lakh		
9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.3	Base Rate of return on equity	%	14	14
9.5 Prime lending Rate of SBI as on April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.4	Tax Rate	%	Not Applicable	Not Applicable
April' 2017 10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	0.5	Prime lending Rate of SBI as on	0/		
10.1 Type 10.2 Installed Capacity (Bo of Units x MW) 10.3 Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	9.5		% 0	13.80%	12.90%
MW) Peaking capacity during lean period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	10.1	Туре			
period (MW) 10.4 Type of Turbine 10.5 Rated Head (M)	10.2	MW)	KW	100	100
10.4 Type of Turbine 10.5 Rated Head (M)	10.3				
10.5 Rated Head (M)	10.4	± ` /			

Name of the Hydro Generating Station: Seppa

State/ Distt. Arunachal Pradesh/ East Kameng District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF	PAF)			
	& other normative para	meters cor	sidered for Tarif	f
Sl.	Description	T T :4	2019-20	2020-21
No.	Description	Unit	(Estimated)	(Projected)
1	Installed Capacity	KW	300	300
2	Free Power to home state	%	NIL	NIL
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	2.50	2.50
	Auxiliary Consumption including		1.000/	1.000/
7	Transformation losses	%	1.00%	1.00%
	Normative Plant Availability	0.4		
8	Factor (NAPAF)	%		
	,	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
0.5	Prime lending Rate of SBI as on	0.1		
9.5	April' 2017	%	13.80%	12.90%
10.1	Туре			
	Installed Capacity (Bo of Units x	17777	200	200
10.2	MW)	KW	300	300
10.2	Peaking capacity during lean			
10.3	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
	Rated Discharge (Cumes)			
10.0		L	1	

Name of the Hydro Generating Station : Pakke Kessang State/ Distt. Arunachal Pradesh/ East Kameng District

Detai	ls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAI				
	& other normative para	meters con	sidered for Tarif	f
Sl.	Dogarintian	Unit	2019-20	2020-21
No.	Description	Onit	(Estimated)	(Projected)
1	Installed Capacity	KW	30	30
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.25	0.25
7	Auxiliary Consumption including	%	1.00%	1.00%
	Transformation losses	/0	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)			
9.1	Maintenance Spares for WC	Rs. Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Type			
10.2	Installed Capacity (Bo of Units x MW)	KW	30	30
10.3	Peaking capacity during lean period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Pacha MHS State/ Distt. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF) & other normative parameters considered for Tariff Sl. 2019-20 2020-21 Unit Description No. (Estimated) (Projected) 1 Installed Capacity KW 3000 3000 2 Free Power to home state **NIL** NIL % Date of commercial operation Unit - 24 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 24.97 24.97 **Auxiliary Consumption including** % 1.00% 1.00% Transformation losses Normative Plant Availability % Factor (NAPAF) Rs. 9.1 Maintenance Spares for WC Lakh 9.2 Receivable for WC R. Lakh 9.3 Base Rate of return on equity % 14 14 9.4 Tax Rate % Not Applicable Not Applicable Prime lending Rate of SBI as on 9.5 % 13.80% 12.90% April' 2017 10.1 Type Installed Capacity (Bo of Units x 10.2 KW 3000 3000 MW) Peaking capacity during lean 10.3 period (MW) 10.4 Type of Turbine 10.5 Rated Head (M) 10.6 Rated Discharge (Cumes)

Name of the Hydro Generating Station: Pakoti

State/ Distr. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor

	ils of Cod, Type of Hydro Stations,	Normative	e Annual Plant, A	vailability Factor
(NAI				
	& other normative para	meters cor		
Sl.	Description	Unit	2019-20	2020-21
No.	-	Cint	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation		1	
6	Design Energy (Annual)	Mus	0.83	0.83
_	Auxiliary Consumption including			
7	Transformation losses	%	1.00%	1.00%
	Normative Plant Availability	0.4		
8	Factor (NAPAF)	%		
	, , ,	Rs.		
9.1	Maintenance Spares for WC	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
	Prime lending Rate of SBI as on			
9.5	April' 2017	%	13.80%	12.90%
10.1	Type			
	Installed Capacity (Bo of Units x			
10.2	MW)	KW	100	100
	Peaking capacity during lean			
10.3	period (MW)			
	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Patta Nallah State/ Distt. Arunachal Pradesh/ East Kameng District

Detai	lls of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAI	PAF)			
	& other normative para	meters cor	sidered for Tarif	f
Sl.	Dogarintian	Unit	2019-20	2020-21
No.	Description	Ollit	(Estimated)	(Projected)
1	Installed Capacity	KW	100	100
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
	Unit – 2			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.83	0.83
7	Auxiliary Consumption including	%	1.00%	1.00%
/	Transformation losses	70	1.0070	1.0070
8	Normative Plant Availability	%		
0	Factor (NAPAF)	/0		
9.1	Maintenance Spares for WC	Rs.		
9.1	-	Lakh		
9.2	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
10.2	Installed Capacity (Bo of Units x	Lm.	100	100
10.2	MW)	KW	100	100
10.3	Peaking capacity during lean			
10.3	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Watte Mame State/ Distt. Arunachal Pradesh/ East Kameng District

Details of Cod, Type of Hydro Stations, Normative Annual Plant, Availability Factor (NAPAF)

1 Installed Capacity KW 50 50 2 Free Power to home state % NIL NIL 3 Date of commercial operation Unit - 1 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)	(NAF	PAF)			
No. Description Unit (Estimated) (Projected 1 Installed Capacity KW 50 50 50 2 Free Power to home state % NIL NIL 1 NIL 3 Date of commercial operation Unit – 1 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) Rotating exciters on generator b) Static excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)		& other normative para	meters con	sidered for Tarif	f
No. CEstimated) (Projected Installed Capacity KW 50 50 50 20 Free Power to home state % NIL NIL	Sl.	Deganintian	I Imit	2019-20	2020-21
2 Free Power to home state % NIL NIL 3 Date of commercial operation Unit – 1 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF)	No.	Description	Omi	(Estimated)	(Projected)
3 Date of commercial operation Unit – 1 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)	1	Installed Capacity	KW	50	50
Unit – 1 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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)	2	Free Power to home state	%	NIL	NIL
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)	3	Date of commercial operation			
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)		Unit – 1			
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) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)	4	Type of Station			
c) Peaking/ non-peaking d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses Normative Plant Availability 8 Normative Plant Availability Factor (NAPAF)		a) Surface/ underground			
d) No of hours of peaking e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses Normative Plant Availability 8% Normative Plant Availability 9%		b) Purely ROR/ Pondage/ Storage			
e) Overload capacity (MW) & period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF)		c) Peaking/ non-peaking			
period 5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) 7 Auxiliary Consumption including Transformation losses Normative Plant Availability Factor (NAPAF) 8 Normative Plant Availability %		d) No of hours of peaking			
5 Type of excitation a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including 7 Transformation losses 8 Normative Plant Availability 8 7 Factor (NAPAF)		e) Overload capacity (MW) &			
a) Rotating exciters on generator b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) % 1.00%		period			
b) Static excitation 6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses 8 Normative Plant Availability Factor (NAPAF) 8 Factor (NAPAF)	5	Type of excitation			
6 Design Energy (Annual) Mus 0.42 0.42 7 Auxiliary Consumption including Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) %		a) Rotating exciters on generator			
7 Auxiliary Consumption including 7 Transformation losses 8 Normative Plant Availability Factor (NAPAF) 1.00% 1.00%		b) Static excitation			
7 Transformation losses % 1.00% 1.00% 8 Normative Plant Availability Factor (NAPAF) %	6	Design Energy (Annual)	Mus	0.42	0.42
8 Factor (NAPAF) %	7		%	1.00%	1.00%
	8	_	%		
9.1 Maintenance Spares for WC Rs. Lakh	9.1	Maintenance Spares for WC	Rs. Lakh		
9.2 Receivable for WC R. Lakh	9.2	Receivable for WC	R. Lakh		
9.3 Base Rate of return on equity % 14 14	9.3	Base Rate of return on equity	%	14	14
9.4 Tax Rate % Not Applicable Not Applica	9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5 Prime lending Rate of SBI as on April' 2017 % 13.80% 12.90%	9.5	_	%	13.80%	12.90%
10.1 Type	10.1	Туре			
10.2 Installed Capacity (Bo of Units x KW 50 50		Installed Capacity (Bo of Units x	KW	50	50
10.3 Peaking capacity during lean period (MW)	10.3	Peaking capacity during lean			
10.4 Type of Turbine	10.4	Type of Turbine			
10.5 Rated Head (M)	10.5	Rated Head (M)			
10.6 Rated Discharge (Cumes)	10.6	Rated Discharge (Cumes)			

Name of the Hydro Generating Station : Kade Nallah State/ Distt. Arunachal Pradesh/ East Kameng District

Detai	ils of Cod, Type of Hydro Stations,	Normative	Annual Plant, A	vailability Factor
(NAF				
	& other normative para	meters cor	sidered for Tarif	f
Sl.	Description	Unit	2019-20	2020-21
No.	Description	Ullit	(Estimated)	(Projected)
1	Installed Capacity	KW	50	50
2	Free Power to home state	%	NIL	NIL
3	Date of commercial operation			
	Unit – 1			
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) Rotating exciters on generator			
	b) Static excitation			
6	Design Energy (Annual)	Mus	0.42	0.42
7	Auxiliary Consumption including	%	1.00%	1.00%
	Transformation losses			
8	Normative Plant Availability	%		
	Factor (NAPAF)	%0		
9.1	Maintenance Spares for WC	Rs.		
		Lakh		
	Receivable for WC	R. Lakh		
9.3	Base Rate of return on equity	%	14	14
9.4	Tax Rate	%	Not Applicable	Not Applicable
9.5	Prime lending Rate of SBI as on April' 2017	%	13.80%	12.90%
10.1	Туре			
	Installed Capacity (Bo of Units x	KW	50	50
	MW)			
10.3	Peaking capacity during lean			
	period (MW)			
10.4	Type of Turbine			
	Rated Head (M)			
10.0				