

Pro-forma for furnishing Actual annual performance/operational data for the Hydro Electric generating stations for the 7-year period from 2015-16 to 2021-22

S.N	Particulars	Units	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	Name of Company		NTPC Ltd						
2	Name of Station		Koldam Hydro Electric Power Project						
3	Installed Capacity and Configuration	(MW)	800 (4 X 200) MW						
3.1	Date of Commercial Operation - Unit Wise		18-07-2015						
3.2	Effective COD		18-07-2015						
4	Station Location	Under ground or Surface	Surface						
	Stage		Single Stage						
5	Type of Excitation System		Static Excitation System						
6	Live Storage Capacity	(Million Cubic)	90.00						
7	Rated Head	Metres	131.00						
8	Head at Full Reservoir Level (FRL)	Metres	136.00						
9	Head at Minimum Draw down Level (MDDL)	Metres	131.00						
10	MW Capability at FRL	MW	800.00						
11	MW Capability at MDDL	MW	800.00						
12	Cost of spares :								
12.1	Cost of spares capitalized in books of	(Rs. Lakhs)	1,994.34	715.09	1,960.32	399.41	686.71	1,042.13	128.28
12.2	Cost of spares included in the capital cost for the purpose of tariff	(Rs. Lakhs)	1,830.83	921.70	-				
	Period								
13	Generation :								
13.1	Actual Gross Generation at Generator	(MU)	1,794.71	3,225.18	3,313.63	3,013.90	3,449.60	3,221.40	3,120.13
13.2	Actual Net Generation Ex-bus including free	(MU)	1,773.89	3,194.72	3,289.25	2,995.31	3,427.00	3,198.31	3,097.12
13.3	Scheduled generation Ex-bus including	(MU)	1,744.35	3,140.78	3,089.28	2,951.78	3,356.23	3,165.14	3,032.22
14	Actual Auxiliary Energy Consumption excluding colony consumption	(MU)	20.83	30.08	22.63	16.36	20.50	21.05	20.43
15	Actual Energy supplied to Colony from the	(MU)	-	0.38	1.75	2.23	2.11	2.03	2.58
16	Average Declared Capacity (DC) during	(MW)			799.96	854.72	863.02	859.41	861.87
	Actual Declared Capacity	(MW)			799.96	854.72	863.02	859.41	861.87
	Deemed Declared Capacity	(MW)			792.00	792.00	792.00	792.00	792.00
	Actual energy supplied to beneficiaries*	(MU)			2,861.65	2,605.92	2,981.49	2,782.53	2,694.50
	Actual energy supplied in DSM	(MU)			199.97	43.53	70.77	33.17	64.91
	Actual energy supplied in exchange	(MU)	-	-	-	-	-	-	-
17	Weighted Average duration of outages								
17.1	Scheduled outages	(Days)			4.18	3.93	3.77	4.55	4.28
17.2	Forced outages	(Days)			0.62	0.47	0.51	0.94	0.59
	Within the control of generator				-	-	-	-	-
	Beyond the control of generator				0.62	0.47	0.51	0.94	0.59
	Shortfall in energy claimed / allowed								
18	Cost of spares actually consumed	(Rs. Lakhs)	238.95	298.35					
19	Average stock of spares	(Rs. Lakhs)	32.34	277.10	1,035.64	1,854.24	2,258.65	2,456.52	2,575.17

*Actual energy supplied to beneficiaries has been adjusted for supply of free power to home state.

Month wise Design Energy (Existing)

Annexure-III contd. SH 2/3

Month	Period	Design Energy as approved by CEA (MU)	Month	Period	Design Energy as approved by CEA (MU)
April	1-10	59.21	October	1-10	46.88
	11-20	57.80		11-20	44.33
	21-30	89.80		21-31	41.29
May	1-10	103.87	November	1-10	30.49
	11-20	186.01		11-20	27.94
	21-31	206.82		21-30	25.39
June	1-10	64.92	December	1-10	24.48
	11-20	171.32		11-20	24.48
	21-30	118.63		21-31	26.93
July	1-10	155.60	January	1-10	24.48
	11-20	192.00		11-20	24.48
	21-31	211.20		21-31	26.93
August	1-10	192.00	February	1-10	24.48
	11-20	192.00		11-20	24.49
	21-31	211.20		21-28	19.58
September	1-10	129.86	March	1-10	24.48
	11-20	93.03		11-20	39.39
	21-30	71.50		21-31	47.51
			Total		3054.79

Storage Hydro plants shall also furnish actual monthly average peaking generation in MW achieved during the period 2017-18 to 2021-22 against the monthly average peaking capability approved by CEA as per following format:

Month	Expected Avg. of daily 3-hour peaking capacity as approved by CEA (MU)	Actual monthly average of daily 3-hour peaking (MW) for the period 2015-16 to 2021-22						
		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
April	872	N/A	799.60	857.53	792.00	872.00	871.99	874.00
May	872	N/A	872.00	802.32	851.35	872.00	850.92	874.00
June	872	N/A	856.77	802.67	872.00	872.00	871.99	859.47
July	872	811.43	854.90	871.87	872.00	872.00	871.99	874.00
August	872	831.56	855.00	843.10	872.00	871.52	873.18	874.00
September	872	814.12	856.00	792.00	864.77	872.00	874.00	874.00
October	872	816.78	858.13	792.00	872.00	872.00	874.00	874.00
November	872	696.50	832.28	792.00	835.67	872.00	874.00	874.00
December	872	744.79	860.25	792.00	850.90	847.38	812.76	874.00
January	872	793.71	841.79	763.26	854.42	843.87	874.00	869.46
February	872	661.59	802.25	763.71	848.64	815.62	807.82	749.43
March	872	655	815.90	724.94	868.48	872.00	851.52	862.28

Month wise Design Energy (Post R&M)

Month	RESP	Period	Design Energy as approved by CEA (MU)	Month	Period	Design Energy as approved by CEA (MU)
April	OS	1-10	NA	October	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-30	NA		21-31	NA
May	OS	1-10	NA	November	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-31	NA		21-30	NA
June	OS	1-10	NA	December	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-30	NA		21-31	NA
July	OS	1-10	NA	January	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-31	NA		21-31	NA
August	OS	1-10	NA	February	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-31	NA		21-28	NA
September	OS	1-10	NA	March	1-10	NA
	OS	11-20	NA		11-20	NA
	OS	21-30	NA		21-31	NA
	OS		NA	Total		NA

PLANT AVAILABILITY/SCHEDULED PLANT LOAD FACTOR ACHIEVED

Generating company: NTPC Ltd.

Name of Hydro Generating station: KOLDAM HPS

Installed Capacity (MW) : 800 (4 x 200) MW

Normative Annual Plant Availability Factor (%) approved by Commission : 90 %

Plant Availability Factor Achieved (%)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Reasons for shortfall in PAF achieved vis-a-vis NAPAF
April	COD : 18.07.2015	100.96	108.27	100.00	110.10	110.10	110.35	
May		110.10	101.30	107.49	110.10	107.44	110.35	
June		108.18	101.35	110.10	110.10	110.10	108.52	
July	102.45	107.94	110.08	110.10	110.10	110.10	110.35	
August	104.99	107.95	106.45	110.10	110.04	110.25	110.35	
September	102.79	108.08	100.00	109.19	110.10	110.35	110.35	
October	103.13	108.35	100.00	110.10	110.10	110.35	110.35	
November	87.94	105.09	100.00	105.51	110.10	110.35	110.35	
December	94.04	108.62	100.00	107.44	106.99	102.62	110.35	
January	100.22	106.29	96.37	107.88	106.55	110.35	109.78	
February	83.53	101.29	96.43	107.15	102.98	102.00	94.62	
March	82.70	103.02	91.53	109.66	110.10	107.51	108.87	
Annual	95.41	106.37	101.00	107.92	108.97	108.51	108.82	

Plant Load Factor Achieved (%)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Reasons for shortfall in PLF achieved vis-a-vis Target PLF
April	COD : 18.07.2015	20.54	39.29	17.15	37.76	26.07	16.14	
May		58.47	71.25	29.95	48.53	45.59	32.94	
June		92.73	84.78	70.01	86.14	89.86	75.17	
July	103.16	107.29	109.19	97.81	109.46	107.14	109.47	Less Inflow in FY 2019-20
August	101.53	107.70	101.57	107.29	108.89	109.79	104.42	
September	55.16	61.76	56.21	75.10	81.80	71.46	74.23	
October	27.42	28.52	29.00	31.73	29.43	28.52	36.63	
November	19.54	17.72	18.93	21.07	21.21	17.99	21.00	
December	15.17	14.21	15.23	15.67	16.68	14.61	15.77	
January	13.04	13.73	13.21	13.64	15.25	13.52	14.53	

February	12.05	12.77	13.01	16.76	14.02	12.25	13.16	
March	14.22	13.89	12.75	17.72	18.62	12.23	18.04	
Annual	36.23	46.02	46.02	47.28	43.01	49.09	45.97	

DETAILS OF OPERATIONS AND MAINTENANCE EXPENSES

Name of the Company:

NTPC Ltd.

Name of the Power Station or Transmission Region:

Koldam HPS

(Rs. In Lakhs)

Sl. No.	ITEM	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9
(A)	Details of Capital Spares in opening Stock	-	1,994.34	2,686.36	4,335.13	4,681.47	5,382.08	6,413.14
(B)	Details of Capital Spares procured during the year	1,994.34	715.09	1,960.32	399.41	721.36	1,051.88	128.28
1	...	Details Attached as Annexure VI(D)						
2	...							
3	...							
4	...							
	...							
(C)	Details of capital spares consumed during the year	-	23.07	311.55	53.07	20.74	20.83	18.25
1	...	Details Attached as Annexure VI(D)						
2	...							
3	...							
4	...							
	...							
(D)	Details of capital spares closing at the end of	1,994.34	2,686.36	4,335.13	4,681.47	5,382.08	6,413.14	6,523.16

Details of operation & Maintenance expenses (to be filled by each Hydro generating station)Name of Geeration Company: **NTPC Ltd.**Name of the hydro-electric station: **Koldam HPS**

Rs. Lakh

Sl. No.	Item	2017-18	2018-19	2019-20	2020-21	2021-22
1	Consumption of stores & spares	349	395	274	324	359
2	Repair & Maintenance	1,347	1,401	1,569	1,682	3,558
3	Insurance	762	833	875	911	917
4	Security	1,796	1,967	2,113	2,309	2,248
4.1	CISF	1,537	1,715	1,862	1,993	1,998
4.2	Other than CISF	259	252	251	316	250
5	Water Charges	-	-	-	-	-
6	Administrative Expenses					
6.1	Rent	57	40	4	0	0
6.2	Electricity charges	101	68	55	46	56
6.3	Travelling & Conveyance	176	207	155	101	111
6.4	Communication Expenses	90	96	53	43	47
6.5	Advertising	20	16	16	9	8
6.6	Foundation Laying & Inauguration	-	-	-	-	-
6.7	Donation	-	-	-	-	-
6.8	Entertainment	35	50	28	22	27
6.9	Filing fee	35	35	35	35	35
	Subtotal (Administrative Expenses)	513	513	345	256	284
7	Employee Cost					
7.1.1	Salaries, Wages & Allowances	2,653	1,980	1,919	1,745	1,603
7.1.1.1	Salaries, Wages & Allowances (including loco pilots and man power associated with stone and metal picking charges and water pumping)	-	-	-	-	-
7.1.1.2	Salaries, Wages & Allowances (Excluding loco pilots and man power associated with stone and metal picking charges and water pumping)	-	-	-	-	-
7.1.1.3	Loco pilots	-	-	-	-	-
7.1.1.4	Stone and metal picking	-	-	-	-	-
7.1.1.5	Water pumping	-	-	-	-	-
7.1.2	Pension	122	127	69	97	110
7.1.3	Gratuity	71	58	37	36	35
7.1.4	Provident Fund	169	194	142	135	127
7.1.5	Leave Encashment	263	265	212	142	135
7.2	Staff welfare expenses					
7.2.1	Medical expenses on superannuated employees	-	0	-	-	-
7.2.2	Medical expenses on regular employees & others	152	137	155	160	160
7.2.3 -	Uniform/Livries & safety equipment	38	72	41	39	39
7.2.4 -	Canteen expenses	149	157	152	149	153
7.2.5 -	Other staff welfare expenses	39	33	44	20	50
	Subtotal (Staff welfare Expenses)	378	400	392	368	402
7.3	Productivity linked Incentive	-	-	-	-	-
7.4	Expenditure on VRS	-	81	-	-	-
7.5	Ex-gratia	20	39	33	36	47

7.6	Performance Related Pay(PRP)	522	502	413	317	379
	Sub Total (Employee Cost)	4,197	3,646	3,217	2,877	2,839
8	Loss of Store	-	-	-	-	-
9	Provisions	1,632	2,071	1,018	1,012	1,042
10	Prior Period Expenses	-	-	-	-	-
11	Corporate Office expenses allocation	2,962	2,939	2,672	2,368	2,442
12	Others					
12.1	Rates & Taxes	143	164	158	119	120
12.2	Water cess	-	-	-	-	-
12.3	Training & recruitment expenses	11	5	11	5	6
12.4	Tender Expenses	23	3	-	-	-
12.5	Guest house expenses	93	124	132	125	141
12.6	Education expenses	4	3	3	9	6
12.7	Community Development Expenses					
12.7.1	CSR activities	22	11	33	25	17
12.8	Ash utilisation expenses	-	-	-	-	-
12.9	Books & Periodicals	1	0	1	0	0
12.1	Professional Charges	78	12	15	30	41
12.11	Legal expenses	178	266	199	73	290
12.12	EDP Hire & other charges	12	17	19	10	8
12.13	Printing & Stationery	15	7	5	2	1
12.14	RLDC Fee & Charges	46	62	82	49	69
12.15	Brokerage & Commission	0	-	-	-	-
12.16	Bank charges	1	1	0	-	0
12.17	Claims/advances written off	-	-	-	-	-
12.18	Hiring of vehicle	221	212	159	126	123
12.19	Payment to auditors	-	-	-	-	-
12.2	Misc. Expenses	211	208	212	233	251
	(Break-up Of Misc.)					
12.20.1	Horticulture	68	76	93	104	111
12.20.2	Transport- Vehicle Running exp.	2	-	0	0	5
12.20.3	Hire charges & Operating Exp -Construction equipment	3	2	14	30	23
12.20.4 -	Tree Plantation exp.	2	0	-	11	0
12.20.5 -	R&D expenses	-	-	-	-	-
12.20.6	Other Vehicles	-	-	-	-	-
12.20.7	Consumption-HSD/LDO-(Ind/Imp)-DG Set	-	-	-	-	-
12.20.8	Exp/ Inc from Inv Diff	-	-	-	-	-
12.20.9	Loss on sale of Investments	-	-	-	-	-
12.20.10	Operating exp of diesel generating sets	1	1	-	-	-
12.20.11	Furnishing Expenses	2	4	1	0	1
12.20.12	Subscription to Trade and Other Association	4	3	2	2	2
12.20.13	Hire Charges - Helicopter/Aircraft	30	-	-	-	-
12.20.14	Visa & Entry Permit Charges - Overseas	-	-	-	-	-
12.20.15	FX Monitoring Terminal Expenses	-	-	-	-	-
12.20.16	Works/Conf.(Excl train R&D CENPEEP)Earlier Non FBT	-	-	-	-	-
12.20.17	Workshop/Conf. Exp (train R&D CENPEEP) Earlier FBT	-	-	-	-	-
12.20.18	Hire charges - Office equipment	-	-	-	-	-

12.20.19	Payment for health club etc	-	-	-	-	-
12.20.20	Gifts liable for Fringe Benefit Tax	-	-	-	-	-
12.20.21	Festival expenses liable Earlier (FBT)	-	-	0	0	-
12.20.22	Miscellaneous Expenses	97	121	101	84	109
12.20.23	Rounding Off Difference	0	0	-0	0	-0
12.20.24	Regional Power Committee Expenses	1	1	1	-	-
12.20.25	Misc Exp. trf to CSR and IEDC	-	-	-	-	-
12.20.26	Workshop/Conf Expenses- Without ITC	-	-	0	0	0
	Sub Total (Others)	1,059	1,095	1,031	805	1,073
13	(Total 1 to 12)	14,618	14,860	13,112	12,544	14,762
14	Revenue / Recoveries	-4	-2	-2	-1	-5
15	Net Expenses	14,613	14,859	13,110	12,542	14,757
	Total O&M Cost	14,613	14,859	13,110	12,542	14,757

	Reconciliation :As per sch of accounts					
1	Net Emp Cost as per Format	4,197	3,646	3,217	2,877	2,839
2	Recon :Emp Cost IND AS adj-Amortisation exp. & Unwinding	26	22	20	18	13
3	Recon :Emp Cost IND AS adj-Acturial Gain/Loss- Emp benefit	-	-	-	-	-
4	Recon :Emp Cost IND AS adj-Acturial Gain/Loss-PRMS	-95	-38	-35	-20	-18
5	Recon :Emp Cost IND AS adj-Acturial Gain/Loss-Gratuity	50	42	-22	-5	8
6	Total reconciliation pertaining to emp cost (2+3+4+5)	-19	26	-37	-7	3
7	Emp Cost as per SCh (net employee cost + trf to fuel)(1+6)	4,179	3,672	3,179	2,870	2,842
8	R&M including stores consumed	1,696	1,797	1,842	2,007	3,917
9	Over heads	4,126	4,406	4,362	4,280	4,517
10	PROV	1,632	2,071	1,018	1,012	1,042
11	Recon: Interest payable to customers	-	-	-	-	-
12	Recon: Rebate to customers	-	-	-	-	-
13	Recon: Exchange rate Variance	0	-11	0	0	1
14	Recon: Reimbursement of LC charges on Sales Realisation	-	-	-	-	-
15	Recon: Cost of hedging	-	-	-	-	-
16	Recon: MTM losses	-	-	-	-	-
17	Recon: Survey & Investigation expenses	-	-	-	-	-
18	Recon: Loss on decap of fixed assets	308	52	20	15	17
19	Recon: Provision of Tariff adjustment	-	888	888	1,767	2,647
20	Recon: Electricity Duty	-	-	-	-	-
21	Recon: Power Trading Expenses	-	-	-	-	-
22	Recon: IND AS ADJ- overhauling expenses	-	-	-	-	-
	Recon: Cost of captive coal produced	-	-	-	-	-
23	Total reconciliation pertaining to R&M and Overheads	308	929	908	1,782	2,665
24	Generation & Administration exp as per sch (Net GAD exp + trf to Fuel) (8+9+10+23)	7,762	9,202	8,130	9,080	12,141
25	CC Exp	2,962	2,939	2,672	2,368	2,442
26	PP	-	-	-	-	-
28	CC adjustment	-	-	-	-	-
29	Total Expenses	14,613	14,859	13,110	12,542	14,757
30	check	-	-	-	-	-

* CERC filling fee booked in legal fees in accounts but here shown in filling fee.

Reconciliation Table

Note 26/34/42	7,762	9,202	8,130	9,080	12,141
	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9
Note 24/32/39	4,179	3,672	3,179	2,870	2,842
	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9	Line 16 add Line 9

27	Total tariff	(Rs. kWh)	NA	6.22	4.98	5.02	4.98	4.90	4.90	4.90
28	Revenue realisation before tax	(Rs. Crore)	NA							
29	Revenue realisation after tax	(Rs. Crore)	NA							
30	Profit/ loss	(Rs. Crore)	NA	268.13	503.16	839.99	720.07	645.71	651.36	583.09
31	DSM Generation	(MU)	NA	29.53	53.94	199.97	43.53	70.77	33.17	64.91
32	DSM Rate	(Rs/kWh)	NA							
33	Revenue from DSM	(Rs. Crore)	NA	7.79	14.34	49.96	25.15	28.77	15.55	26.90
34	Compensation received for operation below NAPAF		NA	NA						
35	Part load Compensation received from beneficiariaes		NA							
36	Amount received from SCED	(Rs Crore)	NA							

Note: DSM Revenue (-)Received / (+) Paid

Koldam Hydro Project

Amount in Rs. Lacs

Capital Spares Procurement

S.No.	Capital Spare Name	2017-18	2018-19	2019-20	2020-21	2021-22
1	M9428056029N TRI-AXIAL STRONG MOTION ACCELEROMETER-M9428056029N	13.16	-	-	-	-
2	M9428206023N ENHANCED ACQUISITION MODULE-M9428206023N	8.95	-	-	-	-
3	M7620016032N MDL IOP 305 WITH 10 MM RESISTORS-M7620016032N	2.06	-	-	-	-
4	M7620016032N MDL IOP 305 WITH 10 MM RESISTORS-M7620016032N	2.06	-	-	-	-
5	M7620016035N POWER SUPPLY CARD 69203PY2BA DC CONVERTER	6.34	-	-	-	-
6	M7620016057N DIODE STACK WITH RC W/O FUSE-M7620016057N	2.20	-	-	-	-
7	M7620016058N MDL PWR 688.22.AAA.030-M7620016058N	0.17	-	-	-	-
8	M4988106014 MDL 6920DU1AA UN0663BV1-M4988106014	6.42	-	-	-	-
9	M4988106014 MDL 6920DU1AA UN0663BV1-M4988106014	6.42	-	-	-	-
10	M498810618 MDL 69203DB1AA UN660AV1-M498810618	5.98	-	-	-	-
11	M498810618 MDL 69203DB1AA UN660AV1-M498810618	5.98	-	-	-	-
12	M4988106017 MDL 69203GB1AA UN0661AV1-M4988106017	4.36	-	-	-	-
13	M4988106016 MDL 69203NA1AA UN0661AV1-M4988106016	5.41	-	-	-	-
14	M4988106015 MDL 69203NB1AA UN0662AV1-M4988106015	1.77	-	-	-	-
15	M4988106015 MDL 69203NB1AA UN0662AV1-M4988106015	1.77	-	-	-	-
16	M4988106003 MDL 692031A1AA UNC4660AV1-M4988106003	6.76	-	-	-	-
17	M4988106003 MDL 692031A1AA UNC4660AV1-M4988106003	6.76	-	-	-	-
18	m4988106013 MDL 69203PZ1AA UNC4664AV1-m4988106013	2.39	-	-	-	-
19	m4988106013 MDL 69203PZ1AA UNC4664AV1-m4988106013	2.39	-	-	-	-
20	M7620016044N MDL 69203YV1AA CT370AV1-M7620016044N	0.57	-	-	-	-
21	M7620016044N MDL 69203YV1AA CT370AV1-M7620016044N	0.57	-	-	-	-
22	M7620016044N MDL 69203YV1AA CT370AV1-M7620016044N	0.57	-	-	-	-
23	M4988106012 MDL CE69143350 UN1196A-M4988106012	2.45	-	-	-	-
24	M4988106012 MDL CE69143350 UN1196A-M4988106012	2.45	-	-	-	-
25	M7620016048N MDL CE69136570 UN0099A-M7620016048N	1.04	-	-	-	-
26	M4988106011 MDL CE69138930 UN0097A-M4988106011	1.34	-	-	-	-
27	M4988106010 MDL CE69133411 UN0098#P-M4988106010	3.99	-	-	-	-
28	M762001605N MDL CE69142280 UNS0014B,V,200-M762001605N	17.85	-	-	-	-
29	M762001605N MDL CE69142280 UNS0014B,V,200-M762001605N	17.85	-	-	-	-
30	M762001605N FILTER MODULE MDL 692.03.IA2AA(DAVR)-M762001605N	5.65	-	-	-	-
31	M959005437N MAX CONTROL RESISTOR AND THERMISTOR-M959005437N	1.25	-	-	-	-
32	M959005437N MAX CONTROL RESISTOR AND THERMISTOR-M959005437N	1.25	-	-	-	-
33	M8564149838N FIELD BREAKER 3000A, 1000VOLTS-	33.79	-	-	-	-
34	M4988106001N PULSE SUPERVISION UNIT UN0053-M4988106001N	1.92	-	-	-	-
35	M5122020101 MICRO TERMINAL UNS2660AU-M5122020101	5.63	-	-	-	-
36	M9414706003N DEMAG VFD-M9414706003N	13.83	-	-	-	-
37	M7615016193 KD:Thrust Pad M7615016193	54.23	-	-	-	-
38	M9567746062N PLC PROCESSOR: CPU-1214C; SIEMENS-M9567746062N	0.54	-	-	-	-
39	M9041500056 RELY NUM:220VDC:400KV B/BAR PROTCTN RELAY	6.86	-	-	-	-
40	M9041500056 RELY NUM:220VDC:400KV B/BAR PROTCTN RELAY	6.86	-	-	-	-
41	M7605016288 OIL COOLER	3.34	-	-	-	-
42	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	5.78	-	-	-	-
43	M8581180535 DOUBLE ARC CHAMBER (WITHOUT CLOSINF RESISTOR)	11.07	-	-	-	-
44	M8581180526 DOUBLE ARC CHAMBER (WITH CLOSING RESISTOR)	11.78	-	-	-	-
45	M7625020100 KD:HYD. CYLINDER (FLAP CYL)260X140X1350	12.91	-	-	-	-
46	M8731900112 EXCITATION XYMR:2000KVA 13.8KV/525V	67.10	-	-	-	-
47	M8752117201N XYMR:BHEL:200MVA,420/11KV:HV BUSHING+	14.17	-	-	-	-
48	M7605016446 KD:ACTUATOR TR10-3/8-M-M7605016446	18.15	-	-	-	-
49	M7605016442 KD:NEYRPC * T - SLG SPC-M-M7605016442	5.79	-	-	-	-
50	M7605016445 POWER TRANSUDUCER MAKE ARDETEM M-M7605016445	5.78	-	-	-	-
51	M7605016288 OIL COOLER	3.34	-	-	-	-
52	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	6.00	-	-	-	-
53	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	6.00	-	-	-	-
54	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	6.00	-	-	-	-
55	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	6.00	-	-	-	-
56	M8581180535 DOUBLE ARC CHAMBER (WITHOUT CLOSINF RESISTOR)	11.07	-	-	-	-
57	M8581180526 DOUBLE ARC CHAMBER (WITH CLOSING RESISTOR)	12.50	-	-	-	-
58	M7625020100 KD:HYD. CYLINDER (FLAP CYL)260X140X1350	12.91	-	-	-	-
59	M8731900112 EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-

60	M8731900112 EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
61	M8731900112 EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
62	M8731900112 EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
63	M8752117201N XYMR:BHEL:200MVA,420/11KV:HV BUSHING+	14.17	-	-	-	-
64	M7605016445 POWER TRANSDUCER MAKE ARDETEM M-M7605016445	5.78	-	-	-	-
65	M7605016446 KD:ACTUATOR TR10-3/8-M-M7605016446	3.82	-	-	-	-
66	M7605016729 KD:MIV ServoMotor-M7605016729	16.02	-	-	-	-
67	M6604106072 BLOWER ASSEMBLY AHU MODEL FAH -98 M6604106072	5.00	-	-	-	-
68	M6604106073 BLOWER ASSEMBLY AHU MODEL FAH -170 M6604106073	10.19	-	-	-	-
69	M3370907000 T3ST-70/40:VT:COMP. P/P ASSY M-M3370907000	6.10	-	-	-	-
70	M3370907000 T3ST-70/40:VT:COMP. P/P ASSY M-M3370907000	6.10	-	-	-	-
71	M7605016010 KD:Labyrinth Ring Lower-M7605016010	5.50	-	-	-	-
72	M7605016014 KD:Labyrinth Ring UPPER-M7605016014	5.50	-	-	-	-
73	M7620016027 KD:MDL DPU4F M-M7620016027	11.78	-	-	-	-
74	M7620016027 KD:MDL DPU4F M-M7620016027	11.78	-	-	-	-
75	M7620016027 KD:MDL DPU4F M-M7620016027	11.78	-	-	-	-
76	M8592991331 SAS spare BCU M-M8592991331	5.26	-	-	-	-
77	M8592991331 SAS spare BCU M-M8592991331	5.26	-	-	-	-
78	M9090550114 RELY DISTRBNC REC 110V AC M9090550114	6.74	-	-	-	-
79	M9425156319 AUTO SYNCHRONISER (SIEMENS) 7VE2146-1-M9425156319	13.67	-	-	-	-
80	M8752110412 HV/LV WINDING LIMB FOR ONE NO. LIMB	17.32	-	-	-	-
81	M7605016288 OIL COOLER	3.34	-	-	-	-
82	M7605016288 OIL COOLER	3.34	-	-	-	-
83	M7605016288 OIL COOLER	3.34	-	-	-	-
84	M9245312266 BATTERY CHARGERING EQUIP. FOR BOOST CHARGING	1.30	-	-	-	-
85	M7605016109 GV SERVO MOTOR (RH)	108.52	-	-	-	-
86	M7605016288 OIL COOLER	3.34	-	-	-	-
87	M9041726144 RELAY NUM:SIEMENS:7UT61355EB221BBO	7.22	-	-	-	-
88	M8752111203 COMPLETE LIMB ONE HV WINDING	12.91	-	-	-	-
89	M2052578400 GB PET U 1400 U 1400 COMPLETE ASSEMBLY	12.59	-	-	-	-
90	M2052452500 COMPLETE GEAR BOX C-90	2.57	-	-	-	-
91	M2052577800 GEAR BOX ASSY MODEL U-600 PREMIUM ENRG	1.69	-	-	-	-
92	M3249196000N SUMBERSIBLE PUMP ASSEMBLY	19.89	-	-	-	-
93	M8337050150N Reactor spare HV Bushing	12.56	-	-	-	-
94	M8337020038N REACTOR SPARE NETURAL BUSHING	3.21	-	-	-	-
95	M9061125305N 20HZ GEN 7XT3300-OCA00 SIEMENS	4.13	-	-	-	-
96	M9097619627N SERIES COUPLING UNIT 7XT7100-OE APO	1.81	-	-	-	-
97	M9097619618N RES COUPLING UNIT 7XR6004-OCA00 SIEMENS	1.11	-	-	-	-
98	M9016156323 GENERATOR TRANSFORMER DIFFERENTIAL RELAY	12.63	-	-	-	-
99	M9041475011 NUMERICAL DISTANCE PROTECTION RELAY	7.71	-	-	-	-
100	M9041726144 RELAY NUM:SIEMENS:7UT61355EB221BBO	7.22	-	-	-	-
101	M9041100146 NUMERICAL XFMR DIFFERENTIAL RELAY 1A	7.71	-	-	-	-
102	M8731800054 NEUTRAL GROUNDING TRANSFORMER 400KVA	7.42	-	-	-	-
103	M8702070002 LOADING RESISTOR FOR GENERATOR	3.45	-	-	-	-
104	M9041159014 RELY NUM:1A:REC670(ABB):YN1M301396-UB	9.69	-	-	-	-
105	M9041559021 RELAY NUM. 220 VDC REC670(ABB) YN1M301396-UF	9.69	-	-	-	-
106	M9041160052 RELY NUM:1A:RET670(ABB):YN1M301396-HB	5.32	-	-	-	-
107	M8703003158 XMR:1PH 82MVA 13.8/420/SQR3KV:YND11 GT-M8703003158	605.18	-	-	-	-
108	M8725548047 CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	5.11	-	-	-	-
109	M7615016493N POLE ASSLY. NORTH POLES	66.34	-	-	-	-
110	M7615016494N POLE ASSLY. SOUTH POLES	66.34	-	-	-	-
111	M7615016079N SLIP RING - ASSEMBLY	5.58	-	-	-	-
112	M7615016179N UGB PAD FOR UPPER GUIDE BEARING	16.37	-	-	-	-
113	M7615016188N LGB PAD FOR GENERATOR LOWER GUIDE BEARING	26.57	-	-	-	-
114	M7615016511 POLE PIECD KEY ASSLY	4.07	-	-	-	-
115	M9428056029N TRI-AXIAL ACCELEROMTR: CMG-5TD;ENCARDIO	-	12.89	-	-	-
116	M3452016000N WP126L:COMPLETE ASSY	-	32.77	-	-	-
117	M8581000004 6.6KV:PT TROLLY 6600/SQ RT3/110/SQ RT3-M8581000004	-	2.86	-	-	-
118	M7605016014N M7605016014N LABYRINTH RING UPPER	-	96.75	-	-	-
119	M9491526003N ELECTRONIC TEST BENCH	-	7.44	-	-	-
120	M7605016361N END SEAL SPLIT M-7605016361N	-	13.74	-	-	-
121	M7605016361N END SEAL SPLIT M-7605016361N	-	13.74	-	-	-
122	M8593990234N WAVE TRAP 400KV, 2000A, 0.5MH M-M8593990234N	-	4.31	-	-	-
123	M8593990234N WAVE TRAP 400KV, 2000A, 0.5MH M-M8593990234N	-	4.31	-	-	-
124	M8566244571 11 KV,630A,VACCUUM CIRCUIT BREAKER	-	3.99	-	-	-

125	M8589510011 VACCUM CIRCUIT BREAKER TROLLY 11KV	-	3.85	-	-	-	
126	M7605016187 RUNDNER CONE	-	12.78	-	-	-	
127	M7605016010N M7605016010N LABYRINTH RING LOWER	-	145.39	-	-	-	
128	M8725548047 M8725548047 CAPACITOR VOLTAGE TRANSFORMER	-	9.99	-	-	-	
129	M8752117202N M8752117202N XYMR:BHEL:420/13.8KV,82MVA:LV BUSHING	-	18.29	-	-	-	
130	M8752117203 M8752117203XYMR:BHEL:420/13.8KV,82MVA:LV-N BUSHING	-	5.76	-	-	-	
131	M5122316005 M5122316005 DAVR:R1 IND-PC TO PS 4041134	-	12.85	-	-	-	
132	M7605016446 KD:ACTUATOR TR10-3/8-M-M7605016446	-	-0.75	-	-	-	
133	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	-	-0.31	-	-	-	
134	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	-	-0.31	-	-	-	
135	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	-	-0.31	-	-	-	
136	M8580970511 SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	-	-0.31	-	-	-	
137	M9041475011 NUMERICAL DISTANCE PROTECTION RELAY	-	-0.21	-	-	-	
138	M8731800054 NEUTRAL GROUNDING TRANSFORMER 400KVA	-	-0.08	-	-	-	
139	M76215016193 KD THRUST PAD M76215016193	-	-	398.27	-	-	
140	M7615016194 KD THRUST RUNNER M7615016194	-	-	107.84	-	-	
141	M8564008081 AIR CKT BREAKER: 1600 A, MAKE-ABB M8564008081	-	-	8.57	-	-	
142	M8612684052 M8612684052 LT MOTOR,132 KW,1500 RPM	-	-	2.45	-	-	
143	M8613604450 M8613604450 INDUCTION MOTOR 110KW,176A,ND 315 S	-	-	2.06	-	-	
144	M7605016346N M7605016346N GUIDE BEARING PAD (DTT)	-	-	29.77	-	-	
145	M7605016310N M7605016310N GUIDE BEARING PAD (RTD)	-	-	29.77	-	-	
146	M7605016094 M7605016094 GV SERVOMOTORS M-7605016094	-	-	112.24	-	-	
147	M8725548047 M8725548047_CAPACITOR VOLTAGE TRANSFORMER;FOR 420K	-	-	4.97	-	-	
148	M8725548047 M8725548047_CAPACITOR VOLTAGE TRANSFORMER;FOR 420K	-	-	4.97	-	-	
149	M8725548047 M8725548047_CAPACITOR VOLTAGE TRANSFORMER;FOR 420K	-	-	4.97	-	-	
150	M8725548047 M8725548047_CAPACITOR VOLTAGE TRANSFORMER;FOR 420K	-	-	4.97	-	-	
151	M9551146081 M9551146081_LED BASED LVS SYSTM: MVL6715 SXGA+;BAR	-	-	6.39	-	-	
152	M7605016361N END SEAL SPLIT M-7605016361N	-	-	2.06	-	-	
153	M7605016361N END SEAL SPLIT M-7605016361N	-	-	2.06	-	-	
154	M7605016446 M7605016446_KD:ACTUATOR TR10-3/8	-	-	-	20.21	-	
155	M7605016729 M7605016729_KD:MIV ServoMotor	-	-	-	117.83	-	
156	M6300000018 M6300000018_SELF PROPELLED ART. BOOMLIFT	-	-	-	56.24	-	
157	M7620016056N KD:MDL PWR CE.688.06.ABC.003, M7620016056N	-	-	-	88.26	-	
158	M7615016098 M7615016098_KD:POLE ASSY	-	-	-	215.08	-	
159	M7615016098 M7615016098_KD:POLE ASSY	-	-	-	215.08	-	
160	M7615016114 M7615016114_KD:AIR SEAL PLATE ASSY	-	-	-	172.48	-	
161	M7615016216 M7615016216_KD:Brush Holder Assy	-	-	-	28.53	-	
162	M7615016251 M7615016251_KD:SUPPORT PLATE	-	-	-	25.69	-	
163	M9406076004N M9406076004N_BDV TEST KIT	-	-	-	7.93	-	
164	M7605016361N M7605016361N_KD:End Seal-Split	-	-	-	19.34	-	
165	M7605016361N M7605016361N_KD:End Seal-Split	-	-	-	19.34	-	
166	M9428056029N M9428056029N_TRI-AXIAL ACCELEROMTR: CMG-5TD;ENCARD	-	-	-	15.69	-	
167	M9428056029N M9428056029N_TRI-AXIAL ACCELEROMTR: CMG-5TD;ENCARD	-	-	-	15.69	-	
168	M9406346004N M9406346004N_PORTABLE DIE-ELECTRIC RESPONSE ANALYZ	-	-	-	23.76	-	
169	M8580435719 M8580435719_CB SF6:33KV:400A:CGL	-	-	-	4.35	-	
170	M7605016445 M7605016445_KD:TPA TRM3	-	-	-	6.37	-	
171	M8580435719 M8580435719_CB SF6:33KV:400A:CGL	-	-	-	-	0.07	
172	M9406450705N M9406450705N_CT TEST(RATIO,POLATIRY, EXCITATION)	-	-	-	-	20.91	
173	M9420156059 POSITION TRANSDUCER: CIMS MK-IV; BOSCH	-	-	-	-	11.43	
174	M9491870001 M9491870001_ULTRASONIC LEAK AND CORONA DETECTOR	-	-	-	-	8.20	
175	M6200000152 OIL FILTERING MACHINE OF CAPACITY 2100 L	-	-	-	-	8.38	
176	M9406646001 M9406646001_PORTABLE INFRARED THERMOVISION CAMERA	-	-	-	-	25.25	
177	M9406280001 UNDERGROUND WIRE & PIPE LOCATOR: LKZ15	-	-	-	-	7.08	
178	M9406566005 M9406566005_DC EARTH FAULT LOCATOR	-	-	-	-	2.03	
179	M8703480256 M8703480256_XYMR:3MVA 11/33KV:DYN1:ONAN	-	-	-	-	25.06	
180	M9041160052 RELY NUM:1A:RET670(ABB):YN1M301396-HB	-	-	-	-	8.22	
181	M9041159014 RELY NUM:1A:RET670(ABB):YN1M301396-HB	-	-	-	-	11.64	
			1,960.32	399.41	721.36	1,051.88	128.28

Koldam Hydro Project

Amount in Rs. Lakhs

Capital Spares Consumption

S.No.	Capital Spare Name	2017-18	2018-19	2019-20	2020-21	2021-22
1	M8725548047 _ CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	5.11	-	-	-	-
2	M7605016445 _ POWER TRANSDUCER MAKE ARDETEM M-M7605016445	17.94	-	-	-	-
3	M4988106015 _ MDL 69203NB1AA UN0662AV1-M4988106015	0.21	-	-	-	-
4	M4988106018 _ MDL69203DB1AA,CPU-UN0660AV1,ED7470400133	1.27	-	-	-	-
5	M7620016032N _ MDL IOP 305 WITH 10 MM RESISTORS-M7620016032N	0.12	-	-	-	-
6	M8580970511 _ SF-6 CIRCUIT BREAKER 400 KV 2000A ABB-M8580970511	5.78	-	-	-	-
7	M8581180526 _ DOUBLE ARC CHAMBER (WITH CLOSING RESISTOR)	11.78	-	-	-	-
8	M7625020100 _ KD:HYD. CYLINDER (FLAP CYL)260X140X1350	12.91	-	-	-	-
9	M7605016445 _ POWER TRANSDUCER MAKE ARDETEM M-M7605016445	5.78	-	-	-	-
10	M7625020100 _ KD:HYD. CYLINDER (FLAP CYL)260X140X1350	12.91	-	-	-	-
11	M8731900112 _ EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
12	M8731900112 _ EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
13	M8731900112 _ EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
14	M8731900112 _ EXCITATION XYMR:2000KVA 13.8KV/525V	59.44	-	-	-	-
15	M7605016446 _ KD:ACTUATOR TR10-3/8-M-M7605016446	-	16.89	-	-	-
16	M9523486001 _ DIGITAL O/P CARD,MAXDNA,IOP351,692301351A	-	0.06	-	-	-
17	M9523486001 _ DIGITAL O/P CARD,MAXDNA,IOP351,692301351A	-	0.06	-	-	-
18	M9420156060 _ CONVTR.FOR POSITION TRANSDCR-CIMS MK-IV;	-	13.04	-	-	-
19	M9428056029N _ TRI-AXIAL STRONG MOTION ACCELEROMETER-M9428056029N	-	12.89	-	-	-
20	M8725548047 _ CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	-	5.11	-	-	-
21	M8725548047 _ CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	-	5.00	-	-	-
22	M8594028998N _ SURGE ARRESTER 400 KV	-	-	2.07	-	-
23	M8594028998N _ SURGE ARRESTER 400 KV	-	-	2.07	-	-
24	M8725548047 _ CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	-	-	4.75	-	-
25	M9551146081 _ M9551146081 _ LED BASED LVS SYSTM: MVL6715 SXGA+;BAR	-	-	6.07	-	-
26	M9504486001 _ ANALG O/P CARD,IOP320,692301320A,MAX-DNA	-	-	2.57	-	-
27	M9504486001 _ ANALG O/P CARD,IOP320,692301320A,MAX-DNA	-	-	2.05	-	-
28	M9520486001 _ ANALG O/P CARD,IOP320,692301320A,MAX-DNA	-	-	1.16	-	-
29	M8725548047 _ CAPACITOR VOLTAGE TRANSFORMER FOR 420KV	-	-	-	4.75	-
30	M8592491266 _ ISOLATOR 400 KV ONE COMP POLE	-	-	-	2.47	-
31	M9481029616N _ ASSY,EMG-DERHNO,ACTUATOR,D500-A-50	-	-	-	1.31	-
32	M9428056029N _ TRI-AXIAL STRONG MOTION ACCELEROMETER-M9428056029N	-	-	-	12.30	-
33	M9041160052 _ RELY NUM:1A:RET670(ABB):YN1M301396-HB	-	-	-	-	9.50
34	M8752117202N _ M8752117202N XYMR:BHEL:420/13.8KV,82MVA:LV BUSHING	-	-	-	-	2.16
35	M7605016443 _ KD:NEYRPIC ® T - ADT	-	-	-	-	6.59
		311.55	53.07	20.74	20.83	18.25