

PUNJAB STATE POWER CORPORATION LIMITED



Office of Chief Engineer/ARR & TR,
Tel.No.0175-2302531, Fax No.0175-2302416, email ce-arr-tr@pspcl.in
Regd. Office: PSEB Head Office, The Mall Patiala- 147001
Corporate Identity Number: U40109PB2010SGC033813 Website: www.pspcl.in

To

Secretary,
Punjab State Electricity Regulatory Commission,
Site No.-3, Block-B, Sector 18-A, Madhya Marg,
Chandigarh.

Memo No. 385 /ARR/DY.CAO/256/ Deficiencies.

Dated. 20/02/2020

Subject: Updated Annexures related to Renewable projects (Deficiencies dated 13.01.2020).

Enclosed please find herewith subject cited information revised as per Updated Annexure L, M, N1 to N5, O1, O2 & P as received from the O/o Dy.CE/IPC (CE/PP&R), PSPCL, Patiala.

This is for your information, please.

DA:- As above.


Chief Engineer/ARR & TR,
PSPCL, Patiala

FY	Input Energy available to PSPCL at its boundary for distribution (MU)	Hydro Energy available to PSPCL at its boundary for distribution (MU)	Net Energy for calculation of RPO Targets (MU)	RPO Specified by the Commission			Long-term NRSE power purchase		Short-term NRSE power purchase		REC purchase		Net-Metering solar power generation (MU)	RPO excess (+)/shortfall (-) of current FY (MU)		Funds required for RPO compliance (in Rs. Crores)				
				Non-Solar	Solar	Non-Solar	Solar	Non-Solar	Solar	Non-Solar	Solar	Non-Solar		Solar	Non-Solar	Long-term NRSE power purchase	Short-term NRSE power purchase	REC purchase	Total	
																				(%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18	19	20	21	22
2018-19	55235.28	13743.87	41491.41	4.3	2.2	2375.117	912.811	1227.990	1442.467	737.322	-	474.80	-	63.161	64.995	592.817	1443.396	323.03	85.339	1851.765
2019-20	57140.12	14452.56	42687.56	5.5	4.0	2347.816	1707.502	1701.630	1442.467	-	-	-	-	100.00	-646.186	-165.035	1629.07	-	-	1629.07
2020-21	59620.26	13131.06	46489.20	6.5	5.0	3021.798	2324.460	3086.930	1475.467	-	-	-	-	150.00	65.132	-698.993	2160.49	-	-	2160.49
2021-22	62378.69	13575.49	48803.20	8.0	6.5	3904.256	3172.208	3774.930	3687.467	-	-	-	-	200.00	-129.326	715.259	3026.21	-	-	3026.21
2022-23	65304.26	14647.07	50657.19	9.5	8.0	4812.433	4052.575	3790.930	4427.467	-	-	-	-	250.00	-1021.503	624.892	3272.89	-	-	3272.89

Note: 1. AS per earlier directives of PSERC, for FY 2018-19, Non-Solar RPO targets have been calculated on total input Energy (Column-2) and Solar Targets have been calculated on Net Energy (Column-4) whereas, as per latest directives of PSERC, for the FY 2019-20 and afterwards, Non-Solar & Solar Targets have been calculated on Net Energy (Column-4).

Note: 2. Figures of Input Energy taken from Petition filed for True-up of FY 2018-19, Annual Performance Review (APR) for FY 2019-20 and MYT for the 2nd Control Period from FY 2020-21 to FY 2022-23.

Note: 3. The outstanding cumulative RPO Obligation ending FY 2018-19 was 474.80 MUs as per PSERC's Tariff order dated 27.05.19 for PSPCL for FY 2019-20 & as per PSERC's Order passed in Petition no.6 of 2019. Total 4,74,800 nos. of Non-Solar RECs have been purchased in the month of June, July & September of FY 2019-20. Outstanding cumulative RPO Obligation at the end of FY 2018-19 was NIL.

Note: 4. Now after considering input energy figure from Petition filed for True-up of FY 2018-19, the Non-Solar shortfall at the end of FY 2018-19 is -107.528 MUs i.e. (-765.34+64.995+592.817) after adjusting excess solar in Non-solar and cumulative non-solar shortfall of -765.34 MUs at the end of FY 2017-18 as per order passed in petition no.6 of 2019

Details of Hydro Power from all sources including own Generation (MUs) Year wise						
Sr. no.	Sources of hydro Power	Energy Received(MUs) in FY				
		2018-19	2019-20	2020-21	2021-22	2022-23
A	PSPCL OWN GENERATION INCLUDING SHARE FROM BBMB AND MINI /MICRO HYDEL					
	Net Hydel Generation from Own Sources (excluding Royalty share to HP/RSD/J&K)	3830.88	4584.85	3779.81	3876.12	4594.46
	Net PSPCL share from BBMB (including Common pool share of 301.20 MUs)	3876.47	4474.82	4126.06	4126.06	4126.06
B	Hydro Power Purchase					
	IPPs in PUNJAB	132.05	136.05	157.05	157.05	157.05
	PEDA	19.29	19.29	19.29	19.29	19.29
C	Central Sector Power purchase					
	(i) NHPC	2704.41	2603.36	2629.69	2977.86	3307.93
	(ii) Naptha Jakhri	720.43	723.30	582.37	582.32	582.37
	(iii) Tehri (THDC)	271.93	229.90	215.34	215.34	215.34
	(iv) Koteshwar (THDC)	87.59	76.24	73.45	73.45	73.45
	(v) Vishnugad pipal koti HEP (THDC)	0.00	0.00	0.00	0.00	23.12
	(vi) Koldam HEP	255.30	251.59	232.68	232.68	232.68
	Total	4039.66	3884.39	3733.53	4081.65	4434.89
D	Purchase through IPPs/ Traders					
	(i) PTC Tala (Hydro)	74.69	103.82	134.44	134.44	134.44
	(ii) Malana-2(PTC)	284.47	350.60	354.88	354.88	354.88
	(iii) KARCHAM (PTC)	749.04	898.74	826.00	826.00	826.00
	Short Term Power Purchase					
	(i)APPCL	737.32	0	0	0	0
Total	1845.52	1353.16	1315.32	1315.32	1315.32	
Grand Total		13743.87	14452.56	13131.06	13575.49	14647.07

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Power purchase from NRSE Projects during FY 2018-19						Annexure-N1
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
A						
Solar						
Solar Intrastate						
1	Bajak SPV	50 KW	0.05	0.000000		0.000
2	Khatkar Kalan SPV	200 KW	0.20	0.000000	3.487	0.000
3	Phulokheri SPV	1 MW	1.00	1.318300	8.946	1.159
4	Soma Plant, Khara Kalmout	1 MW	1.00	0.979000	14.950	1.442
5	Carill Energy P.Ltd., Bhagsar,	1.5 MW	1.50	2.208390	17.910	3.930
6	Econenergy Inc., Boparai kalan	1.MW	1.00	1.000905	17.910	1.775
7	G.S.Atwal & co., Bhuttiwala	1.5 MW	1.50	1.942884	17.910	3.438
8	Sovax Renewables Solar, Mahndipur	1 MW	1.00	0.858282	17.910	1.516
9	EBS, Sahiba Shadra, Balachour	1.5 MW	1.50	1.918870	8.247	1.564
10	RSSB (Roof top) -I, Bias	7.52 MW	7.52	9.213920	7.670	7.008
11	RSSB, (Roof top) -II, Bias	12 MW	12.00	15.802204	7.720	12.047
12	Madhav Solar P. Ltd.-I, Boha, Budlada	2 MW	2.00	2.829519	7.200	2.026
13	Madhav Solar P. Ltd.-II, Boha, Budlada	2 MW	2.00	2.949675	7.470	2.192
14	Azure Tahlwala -I (Tahlwal Jattan)	15 MW	15.00	19.890648	7.670	15.122
15	Azure power II (Punjab/Sikhwala)	15 MW	15.00	20.325582	7.970	16.056
16	Azure power III (Punjab/Sikhwala)	4 MW	4.00	5.524344	8.280	4.524
17	Azure Makemake, Bhattiwala	4 MW	4.00	6.030126	7.330	4.378
18	Azure Makemake, Killawali	24 MW	24.00	35.859765	7.190	25.620
19	Azure Renewable, Skyross	1.260 MW	1.260	1.427100	5.090	0.752
20	Azure Renewable, Bhagwant Singh & Other	0.550 MW	0.550	0.238960	5.090	0.135
21	Azure Renewable, Canam	1.597 MW	1.597	1.674400	5.090	0.885
22	Azure Renewable, Bhagwant Kulwin	1.304 MW	1.304	0.607320	5.090	0.316
23	Azure Renewable, Mansa	0.630 MW	0.630	0.756800	5.090	0.395
24	Azure Renewable, CA Veg Fruit	0.599 MW	0.599	0.702798	5.090	0.370
25	Azure Renewable, Boss comp	1.250 MW	1.250	1.162800	5.090	0.613
26	Azure Renewable, Ludhiana	0.762 MW	0.762	0.716055	5.090	0.371
27	Azure Renewable, Mohali	2.048 MW	2.048	2.309100	7.590	1.651
28	International Switchgears -I, Ramdas	1 MW	1.00	1.323781	7.750	1.015
29	International Switchgears -II, Ramdas,	1 MW	1.00	1.302000	7.650	0.985
30	Vector Green Surya	20 MW	20.00	31.128000	8.490	26.193
31	Vector Green Sunshine, Gamiwala, Boha	20 MW	20.00	31.632000	7.450	23.387
32	Omega Solar, Sangathpura Lehergaga	10 MW	10.00	14.548608	8.740	12.604
33	Essel Renewable Energy Ltd. Bana	10 MW	10.00	14.304000	8.650	12.285
34	Essal Clean Energy, Lakhmirwala	20 MW	20.00	27.876000	8.700	24.085
35	North Star Solar Power p.Ltd. Pathraia	4 MW	4.00	5.904639	8.290	4.832
36	Focal energy, Nangla, Talwandi Sabo	4 MW	4.00	6.104400	8.300	5.024
37	Weispun energy-I, Tiona pujaran,	20 MW	20.00	28.545660	8.330	23.559
38	Weispun energy-II, Jagaram tirath,	10 MW	10.00	14.404650	8.420	12.023
39	Weispun energy-III, Jagaram Tirath	2 MW	2.00	2.868480	8.560	2.441
40	Weispun energy- IV, Tiona pujaran,	4 MW	4.00	5.504445	7.710	4.188
41	TR energy-I, Jandwala mirsangla, Fzk	2 MW	2.00	3.092400	7.750	2.379
42	TR energy-II, Pathraia, Btd	1 MW	1.00	1.574004	7.590	1.184
43	Nextgen Solux-I, Mirpur kalan	1 MW	1.00	1.534360	8.450	1.289
44	Nextgen Solux-II, Jhunir, Mansa	1 MW	1.00	1.526200	7.290	1.103
45	Solairdirect- Muradwala dharangwala Fazi	20 MW	20.00	29.382420	7.990	23.347
46	Solaire Power Pvt. Ltd. Usmankhara, Aboh	24 MW	24.00	36.023685	6.880	24.637
47	Allianz Ecopower, Mirpur kalan, sardulgarh	2 MW	2.00	2.787738	8.450	2.341
48	IK Energy, Lalian kalan	1 MW	1.00	1.394250	8.480	1.170
49	Atma Powers, Lakewali	2 MW	2.00	2.980500	8.410	2.489
50	Aditya Medisales, Lalpur,	4 MW	4.00	5.916000	7.850	4.595
51	Abundant Energy, China bidhi chand sur sin	2 MW	2.00	2.571250	8.550	2.189
52	Abundant Energy-II	1 MW	1.00	1.341750	7.680	0.964
53	Earth Solar, Behbelpur Nabha	4 MW	4.00	5.172000	7.290	3.722
54	Mokla Green Energy P.Ltd.Boha	4 MW	4.00	5.976000	8.590	5.079
55	JSSK Energy, Bhagsar	1 MW	1.00	1.531360	7.630	1.161
56	Continental Eng. & Power P.Ltd. Kotahmar	1 MW	1.00	1.523550	7.480	1.129
57	Pursham Ind. Bajak	3 MW	3.00	4.459629	7.390	3.259
58	Vivaan Solar P.Ltd. Bazak	2 MW	2.00	2.963199	7.400	2.181
59	Mihit Solar Power P.Ltd., Jhandskalan	24 MW	24.00	36.015100	7.160	25.643
60	Mihit Solar Power P.Ltd., Kherakhurad	25 MW	25.00	36.459200	7.060	25.516
61	Mihit Solar Power P.Ltd., Mankhara	25 MW	25.00	37.999300	7.060	26.609
62	ACME Rooftop Solar Nangla	15 MW	15.00	21.843900	7.570	16.430
63	Acme Solar Rooftop Jhunir	15 MW	15	22.077000	7.570	16.610
64	Magnificent Power, Jhunir,	1 MW	1.00	1.551600	7.290	1.123
65	Aster Solar, Jhunir, Mansa	1 MW	1.00	1.605200	7.370	1.174
66	BIPL P. Ltd. Mirpur Kalan	15 MW	15.00	22.023000	6.880	15.047
67	BIDL P. Ltd. Mirpur Kalan	15 MW	15.00	21.906000	6.880	14.978
68	Oasis green, Bahadupur, Budheda	3 MW	3.00	4.227000	7.720	3.229
69	Solair urja pvt ltd. Dautipura, Fzk	25 MW	25	36.098265	6.880	24.673
70	Prayatra Developers, Sardargarh, Btd	50 MW	50.00	89.853522	5.800	51.852
71	Prayatra Developers, Chughakalan, Btd	50 MW	50.00	90.775643	5.950	53.737
72	Megnet -I, Shekhawala, Mansa	25 MW	25.00	37.105000	5.980	22.031
73	Megnet-II, Toderpur & Maghania, Mansa	25 MW	25.00	37.571000	5.980	22.298

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74	Radiant, Pathraia, Btd	3 MW	3.00	4.001880	5.920	2.338
75	Omega Infra, Chaurwala, Fgs	1 MW	1.00	1.990600	5.090	0.705
76	Azure Power Pluto Pvt. Ltd. Bhitthwala	10 Mw	10.00	16.327944	5.640	9.154
77	Azure Power Pluto Pvt. Ltd. Bahadurkhera	25 MW	25.00	37.668610	5.620	21.067
78	Azure Power Pluto Pvt. Ltd. Vanwala	25 MW	25.00	38.235225	5.640	21.444
79	Azure Power Pluto, Bahadur Jandia-2	25 MW	25.00	37.583325	5.630	21.240
80	Azure Power Pluto, Bahadur Jandia-1	25 MW	25.00	37.913310	5.630	21.052
81	Azure Power Pluto, Korianwall	25 MW	25.00	37.937981	5.620	21.205
82	Azure Power Pluto, Badal	15 MW	15.00	22.634181	5.640	12.692
83	SAM SOLAR p ltd. doraha cantop	2.5 MW	2.50	3.075734	7.030	2.147
84	SAM SOLAR p ltd. Nidampur Sgr	2.5 MW	2.50	3.419100	7.010	2.385
85	Myrah Adhya-Balran, Bakhora Kalan, Sgr	25 MW	25.00	42.27215760	5.970	25.071
86	Myrah Adhya-Barata,	25 MW	25.00	34.710000	5.970	20.597
87	Photon Sunbeam-1	15 MW	15.00	22.729800	5.080	11.450
88	Photon Sunbeam-2	25 MW	25.00	30.045510	5.080	15.152
89	vijay printing press pvt. Ltd.	7.5 MW	7.50	9.856708	4.730	4.622
90	canal solar energy pvt. Ltd.	7.5MW	7.50	7.393500	13.216	3.525
	Total Solar Inrastate	884.27	884.27	1319.750999		882.917
	Center Sector Solar					
1	NVVN Bundled	37 MW	37.00	68.526979	10.829	73.583
2	SECI, Rajasthan	30 MW	30.00	54.189706	5.500	29.804
	Total Center Sector Solar	67 MW	67.00	122.716685		103.387
	Total Solar	951.27	951.27	1442.467684		986.304
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount In Rs. (crores)
(B) MINI HYDEL						
	Mini Hydel					
a	Punjab Hydro Ltd.					
1	Dolowal MHP	1.4 MW	1.40	5.998750	3.658	2.190
2	Salar MHP	1.5 MW	1.50	6.477380	3.658	2.366
3	Bhanbhaura MHP	1.3 MW	1.30	6.770660	3.658	2.472
	Punjab Hydro Ltd. Total.	4.20	4.20	19.246790		7.028
b	Kotla Hydro Ltd					
1	Babanpur MHP	1.25 MW	1.25	5.554200	3.658	2.029
2	Killa	1.75 MW	1.75	9.649330	3.658	3.525
3	Sahoke	1.2 MW	1.20	6.755400	3.658	2.468
	Kotla Hydro Ltd. Total	4.20	4.20	21.958930		8.021
c	Aqua Power Plant Ltd.					
1	Chakbhai MHP	2 MW	2	8.152400	3.658	2.975
2	Lohgarh	2 MW	2	7.623833	3.574	2.716
3	Sadana	1.2 MW	1.20	6.539532	4.040	2.636
	Aqua Power Plant Ltd. Total	5.20	5.20	22.315765		8.327
(d)	Abohar Power Generation					
1	Ghollia MHP	1x800 KW	0.80	3.139518	4.040	1.263
2	Chanuwall MHP	1x900 KW	0.90	3.045800	4.040	1.223
3	Akhara MHP	2x550 KW	1.10	3.927334	4.040	1.580
4	Khanpur	2x550 KW	1.10	4.558000	4.040	1.835
5	Sudhar	2x700 KW	1.40	4.496930	4.040	1.811
	Total	6.30	6.30	19.167582		7.712
(e)	Individual Developers					
1	Gill Power Ltd Babheal	2.70 MW	2.70	7.970700	3.658	2.913
2	Altantic Power (Terkiana)	650 KW	0.65	4.367690	4.046	1.766
3	Sam India	2x600 KW	1.20	3.625434	4.880	1.760
4	Sidhwan Hydro	700 KW	0.70	1.689198	5.160	0.861
5	Atlantic Power (Phoola)	600 KW	0.60	2.749283	4.880	1.336
6	SKR Hydro Power	400 Kw	0.40	1.339048	4.880	0.650
7	Gill aqua MBL-2 Vill.-Kala Chakk	2x3 MW	6.00	5.328989	4.120	2.171
8	Gill aqua MBL-3 Vill.-Gandla Nehri	3.8 MW	3.80	2.773611	4.260	1.158
9	UBDC	2	2.00	8.004600	5.160	4.127
10	P & R Gurdittwala	2	2.00	9.744300	4.600	4.447
11	Majha Canal	0.650 MW	0.65	0.496300	5.160	0.239
12	Kotla renewable Pvt. Ltd. (Daudhar)	3 x 0.5 MW	1.50	1.394100	2.860	0.395
13	Kotla renewable Pvt. Ltd. (Nidampur)	2 x 0.4 MW	0.80	0.386000	3.940	0.147
14	Kotla renewable Pvt. Ltd. (Thuhi)	2 x 0.4 MW	0.80	0.000000	3.940	0.000
	Total Individual Dev.	23.8	23.80	49.869253		21.970
(f)	PEDA					
1	Narangwal MHP	2x750 KW	1.50	0.000000	4.445	-0.007
2	Dalla MHP	2x500 KW	1	3.322500	4.445	1.473
3	Tugal MHP	2x750 KW	1.50	3.517000	4.445	1.556
4	Chupki MHP	2x750 KW	1.50	0.763845	4.445	0.330
5	Khatra MHP	2x500 KW	1	4.262046	4.030	1.713
6	Kanganwal MHP	2x650 KW	1.30	1.878921	3.841	0.713
7	Bowani MHP	2x500 KW	1.00	2.799890	3.833	1.069
8	Jagera MHP	2x500 KW	1	2.875408	3.650	1.046
	Total PEDA	9.8	9.80	19.419610		7.892
	Total Mini Hydel	62.50	62.50	151.977930		60.949

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Own Hydel Project						
Sr.No.	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
1	UBDC Stage I&II	91.35	91.35	373.414000		
2	Micro Hydel					
	i) Rohil	0.8	0.8	0.000000		
	ii) Ropar	1.7	1.7	6.223640		
	Total Micro Hydel	2.6	2.6	6.223640		
3	Mukerian MHP-6	18	18	73.598000		
	Total Own Hydel	111.85	111.85	453.235640		
BIO- MASS						
(C)	Co Generation					
a	Bagasse					
1	Rana Sugars Ltd	12 MW	10.20	0.000000	5.890	0.000
2	Rana Sugars Ltd	34 MW	20	62.898000	6.110	38.431
3	A.B. Sugars Ltd	23 MW	20	64.526400	6.112	39.437
4	Chadha Sugars Ltd	23 MW	18	53.116466	5.926	31.433
5	Wahid Sandhar Sugars Mill	12 MW	7	16.326360	6.332	10.337
6	Indian Sucrose	12 MW	6	18.500640	6.180	11.442
7	Newanshahr Power P. Ltd.	15 MW	13.50	20.364000	6.468	11.887
	Total Bagasse	131	94.70	235.731866		142.966
b	Biomass					
1	Chandigarh Distillers & Bottlers	3.90 MW	2.50	4.008000	3.490	1.399
2	Chandigarh Distillers & Bottlers	8.25 MW	5	18.050559	5.890	11.237
3	Indian Acrylics Pvt Ltd	7.75 MW	1.50	0.000000	3.489	0.000
4	NV Distilleries	10 MW	6	47.278854	6.482	30.648
5	A.B. Grain & Spirits	5.50 MW	3	4.763794	6.170	2.939
6	Lakshmi Energy & food	30 MW	24	12.383520	6.182	7.655
7	International Mega Foods Park	4 MW	4.00	3.086310	7.014	2.126
8	Shree Ganesh Edibles Pvt. Ltd.	2.92 MW	0.5	0.326550	5.080	0.166
	Total Biomass co-gen	72.32	48.50	89.897587		56.171
	Total Co-Gen.	203.32	141.20	325.629453		199.137
(b)	Biomass/IPP					
1	Malwa Power Pvt.Ltd	8 MW	8.00	47.204100	6.501	30.500
2	Universal Biomass	14.50 MW	14.50	98.860000	6.594	64.932
3	Punjab Biomass	12 MW	12.00	1.057080	6.329	0.615
4	Dee.Dev.	8 MW	8.00	52.647200	6.179	32.410
5	Green Planet Binzon	6 MW	6.00	18.589904	7.091	12.807
6	Green Planet BirPind	6 MW	6.00	20.639610	7.337	14.787
7	Viaton Energy Ltd.	10 MW	10.00	54.562044	7.337	39.549
8	AZZ Nakoder	15 MW	15	2.074020	6.410	0.855
9	AZZ Fazilka	15 MW	15	0.000000	0.000	0.000
	Total Biomass/IPP	92.50	92.50	295.633958		196.455
	Bio Gas					
1	Sampuran Agri Ventures	1 MW	0.70	0.949512	8.300	0.462
2	Hargobind bio energy	0.5 MW	0.50	0.177660	8.099	0.115
3	Green Planet (Otto cycle)	4 MW	4.00	0.342468	0.000	0.000
	Total Biogas	5.5	5.20	1.469640		0.577
(d)	Waste					
1	Hebawal Biometh.LDH	1 MW	1	0.043200	3.490	-0.026
	Total Waste	1	1	0.043200	3.490	-0.026
	Total Waste					0.000
€	Other Non-Solar					
	Short Term			737.322200		306.726
TOTAL						
A	i) Long term Non-Solar purchase	466.67	404.26	1227.989821		457.092
	ii) Short term Non-Solar purchase			737.322200		323.030
	iii) Non-Solar RECs(MU) purchase			474.800000		85.339
	Total of Non-Solar (i+ii+iii+iv)			2440.112021		865.461
B	i) Long term Solar purchase	951.27	951.27	1442.467684		986.304
	ii) Solar Power received through Net-Metering			63.161838		0.000
	iii) Solar RECs(MU) purchase			0.000000		0.000
	Total of Solar (i+ii+iii)			1505.629522		986.304
	Total of Solar and Non-Solar	1417.94	1355.52	3945.74		1851.765

15.5

Power purchase from NRSE Projects during (projected) FY 2019-20 Annexure-N2

Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unk (Rs./kWh)	Amount in Rs. (crores)
A						
Solar						
Solar Intrastate						
1	Bajak SPV	50 KW	0.05	0.000000		0.00
2	Khatkar Kalan SPV	200 KW	0.20	0.000000	3.487	0.00
3	Phulokheri SPV	1 MW	1.00	1.318300	8.946	1.159
4	Soma Plant, Khera Kalmout	1 MW	1.00	0.979000	14.950	1.442
5	Soma Plant, Khera Kalmout	1.5 MW	1.50	2.208390	17.910	3.930
6	Carilli Energy P.Ltd., Bhagsar,	1.MW	1.00	1.000905	17.910	1.775
7	Econenergy Inc., Boparal Kalan	1.5 MW	1.50	1.942884	17.910	3.438
8	G.S.Atwal & co., Bhuttiwal	1.5 MW	1.50	0.858282	17.910	1.516
9	Sovax Renewables Solar, Mehndipur	1 MW	1.00	1.918870	8.247	1.564
10	EBS, Sahiba Shadra, Balachour	1.5 MW	1.50	1.918870	8.247	1.564
11	RSSB (Roof top) -I, Bias	7.52 MW	7.52	9.213920	7.670	7.008
12	RSSB, (Roof top) -II, Bias	12 MW	12.00	15.802204	7.720	12.047
13	Madhav Solar P. Ltd.-I, Boha, Budlada	2 MW	2.00	2.829519	7.200	2.026
14	Madhav Solar P. Ltd.-II, Boha, Budlada	2 MW	2.00	2.949675	7.470	2.192
15	Azure Tahilwala -I (Tahilwal jattan)	15 MW	15.00	19.890648	7.670	15.122
16	Azure power II (Punjaba/Sikhwala)	15 MW	15.00	20.325582	7.970	16.056
17	Azure power III (Punjaba/Sikhwala)	4 MW	4.00	5.524344	8.280	4.524
18	Azure Makemake, Bhitliwala	4 MW	4.00	6.030126	7.330	4.378
19	Azure Makemake, Killiwal	24 MW	24.00	35.859765	7.190	25.620
20	Azure Renewable, Skycross	1.260 MW	1.260	1.427100	5.090	0.752
21	Azure Renewable, Bhagwant Singh & Other	0.550 MW	0.550	0.238960	5.090	0.135
22	Azure Renewable, Canam	1.587 MW	1.587	1.674400	5.090	0.885
23	Azure Renewable, Bhagwant Kulwin	1.304 MW	1.304	0.607320	5.090	0.316
24	Azure Renewable, Mansa	0.630 MW	0.630	0.756800	5.090	0.395
25	Azure Renewable, CA Veg Fruit	0.599 MW	0.599	0.702798	5.090	0.370
26	Azure Renewable, Boss comp	1.250 MW	1.250	1.162800	5.090	0.613
27	Azure Renewable, Ludhiana	0.782 MW	0.782	0.716055	5.090	0.371
28	Azure Renewable, Mohali	2.048 MW	2.048	2.309100	7.590	1.651
29	International Switchgears -I, Ramdas	1 MW	1.00	1.323781	7.750	1.015
30	International Switchgears -II, Ramdas,	1 MW	1.00	1.302000	7.650	0.985
31	Vector Green Surya	20 MW	20.00	31.128000	8.490	26.193
32	Vector Green Sunshine, Ganiwala, Boha	20 MW	20.00	31.632000	7.450	23.387
33	Omega Solar, Sangathpura, Leheragaga	10 MW	10.00	14.548608	8.740	12.604
34	Essel Renewable Energy Ltd, Bara	10 MW	10.00	14.304000	8.650	12.285
35	Essel Clean Energy, Lakhmirwala	20 MW	20.00	27.876000	8.700	24.085
36	Essel Clean Energy, Lakhmirwala	4 MW	4.00	5.904639	8.290	4.832
37	North Star Solar Power p.Ltd, Pathraia	4 MW	4.00	6.104400	8.300	5.024
38	Focal energy, Nangla, Tahrandi Sabo	20 MW	20.00	28.545660	8.330	23.559
39	Welspun energy-I, Tiona pularian,	10 MW	10.00	14.404650	8.420	12.023
40	Welspun energy-II, Jagaram tirath,	2 MW	2.00	2.868480	8.560	2.441
41	Welspun energy-III, Jagaram Tirath	4 MW	4.00	5.504445	7.710	4.188
42	Welspun energy-IV, Tiona pularian,	2 MW	2.00	3.092400	7.750	2.379
43	TR energy-I, Jandwala mirsangla, Fzk	1 MW	1.00	1.574004	7.590	1.184
44	TR energy-II, Pathraia, Btd	1 MW	1.00	1.534360	8.450	1.289
45	Nextgen Solux-II, Mirpur Kalan	1 MW	1.00	1.526200	7.290	1.103
46	Nextgen Solux-II, Jhunir, Mansa	20 MW	20.00	29.382420	7.990	23.347
47	Solairdirect- Muradwala dhanangwala Fazi	24 MW	24.00	36.023685	6.880	24.637
48	Solair Power Pvt. Ltd, Usankhera, Aboht	2 MW	2.00	2.787738	8.450	2.341
49	Allianz Ecopower, Mirpur Kalan, Sardulgarh	1 MW	1.00	1.394250	8.480	1.170
50	IK Energy, Lallian Kalan	2 MW	2.00	2.980500	8.410	2.489
51	Alma Powers, Lakewali	4 MW	4.00	5.916000	7.850	4.595
52	Aditya Medisales, Lalpur,	2 MW	2.00	2.571250	8.550	2.189
53	Abundant Energy, China bichi chand sur sin	1 MW	1.00	1.341750	7.680	0.964
54	Abundant Energy-II	4 MW	4.00	5.172000	7.290	3.722
55	Earth Solar, Behbalpur, Nabha	4 MW	4.00	5.976000	8.590	5.079
56	Mokia Green Energy P.Ltd, Boha	1 MW	1.00	1.531360	7.630	1.161
57	JSSK Energy, Bhagsar	1 MW	1.00	1.523550	7.480	1.129
58	Continental Eng& Power P.Ltd, Kotshman	3 MW	3.00	4.459629	7.390	3.259
59	Pursham Ind, Bajak	2 MW	2.00	2.963199	7.400	2.181
60	Vivaan Solar P.Ltd, Bazak	24 MW	24.00	36.015100	7.160	25.643
61	Mihit Solar Power P.Ltd., Jhandakalan	25 MW	25.00	36.459200	7.060	25.516
62	Mihit Solar Power P.Ltd., Kherakhurad	25 MW	25.00	37.999300	7.060	26.609
63	Mihit Solar Power P.Ltd., Manikhera	15 MW	15.00	21.843900	7.570	16.430
64	ACME Rooftop Solar Nangla	15 MW	15	22.077000	7.570	16.610
65	Acme Solar Rooftop Jhunir	1 MW	1.00	1.551600	7.290	1.123
66	Magnificent Power, Jhunir,	1 MW	1.00	1.605200	7.370	1.174
67	Aster Solar, Jhunir, Mansa	15 MW	15.00	22.023000	6.880	15.047
68	BIPL P. Ltd, Mirpur Kalan	15 MW	15.00	21.906000	6.880	14.978
69	BIDL, P. Ltd, Mirpur Kalan	3 MW	3.00	4.227000	7.720	3.229
70	Oasis green, Bahadupur, Budhida	25 MW	25	36.098265	6.880	24.673
71	Solair urja pvt ltd, Daultpura, Fzk	50 MW	50.00	89.853522	5.800	51.853
72	Prayatna Developers, Sardarparh, Btd	50 MW	50.00	90.775643	5.950	53.737
73	Prayatna Developers, Chughkalan, Btd	25 MW	25.00	37.105000	5.980	22.091
74	Megnet -I, Shekhawala, Mansa	25 MW	25.00	37.571000	5.980	22.298
75	Megnet-II, Toderpur&Maghanis, Mansa	3 MW	3.00	4.001880	5.920	2.338
76	Radiant, Pathraia, Btd	1 MW	1.00	1.390600	5.090	0.705
77	Omega infra, Chauwala, Fgs	10 Mw	10.00	16.327944	5.640	9.154

B-3

77	Azure Power Pluto Pvt. Ltd. Behadurkhera	25 MW	25.00	37.668610	5.620	21.067
78	Azure Power Pluto Pvt. Ltd. Vanwala	25 MW	25.00	38.235225	5.640	21.444
79	Azure Power Pluto Behadur Jandia-2	25 MW	25.00	37.583325	5.630	21.240
80	Azure Power Pluto Behadur Jandia-1	25 MW	25.00	37.913310	5.630	21.052
81	Azure Power Pluto, Koranwalli	25 MW	25.00	37.937981	5.620	21.205
82	Azure Power Pluto, Badel	15 MW	15.00	22.634181	5.640	12.692
83	SAM SOLAR p ltd. doraha cantop	2.5 MW	2.50	3.075734	7.030	2.147
84	SAM SOLAR p ltd. Nidampur Sor	2.5 MW	2.50	3.419100	7.010	2.385
85	Mytrah Adhya-Bairan, Bakhora Kalan, Sgr	25 MW	25.00	42.27215760	5.970	25.071
86	Mytrah Adhya-Bareta,	25 MW	25.00	34.710000	5.970	20.597
87	Photon Sunbeam-1	15 MW	15.00	22.729800	5.080	11.450
88	Photon Sunbeam-2	25 MW	25.00	30.045510	5.080	15.152
89	vijay printing press pvt. Ltd.	7.5 MW	7.50	9.856708	4.730	4.622
90	canal solar energy pvt.Ltd.	7.5 MW	7.50	7.393500	13.216	3.525
	Total Solar Intrastate	884.27	884.27	1319.750999		882.917
	Center Sector Solar					
1	NVVN Bundled	37 MW	37.00	68.526979	10.829	73.583
2	SECI, Rajasthan	30 MW	30.00	54.189706	5.500	29.804
	Total Center Sector Solar	67 MW	67.00	122.716685		103.387
	Total Solar	951.27	951.27	1442.467684		986.304
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
(B) MINI HYDEL						
	Mini Hydel					
a	Punjab Hydro Ltd.					
1	Dolowal MHP	1.4 MW	1.40	5.998750	3.658	2.190
2	Salar MHP	1.5 MW	1.50	6.477380	3.658	2.366
3	Bhanbhaura MHP	1.3 MW	1.30	6.770660	3.658	2.472
	Punjab Hydro Ltd. Total.	4.20	4.20	19.246790		7.028
b	Kotla Hydro Ltd					
1	Babanpur MHP	1.25 MW	1.25	5.554200	3.658	2.029
2	Killa	1.75 MW	1.75	9.649330	3.658	3.525
3	Sahoke	1.2 MW	1.20	6.755400	3.658	2.468
	Kotla Hydro Ltd.Total	4.20	4.20	21.958930		8.021
c	Aqua Power Plant Ltd.					
1	Chakbhal MHP	2 MW	2	8.152400	3.658	2.975
2	Lohgarh	2 MW	2	7.623833	3.574	2.716
3	Sadana	1.2 MW	1.20	6.539532	4.040	2.636
	Aqua Power Plant Ltd. Total	5.20	5.20	22.315765		8.327
(d)	Abohar Power Generation					
1	Ghollia MHP	1x800 KW	0.80	3.139518	4.040	1.263
2	Chanuwal MHP	1x900 KW	0.90	3.045800	4.040	1.223
3	Akhara MHP	2x650 KW	1.10	3.927334	4.040	1.580
4	Khanpur	2x650 KW	1.10	4.558000	4.040	1.835
5	Sudhar	2x700 KW	1.40	4.496930	4.040	1.811
	Total	6.30	6.30	19.167582		7.712
(e)	Individual Developers					
1	Gill Power Ltd Babbheli	2.70 MW	2.70	7.970700	3.658	2.913
2	Atlantic Power (Terkiana)	650 KW	0.65	4.367690	4.046	1.766
3	Sam India	2x600 KW	1.20	3.625434	4.880	1.760
4	Sidhwan Hydro	700 KW	0.70	1.689198	5.160	0.861
5	Atlantic Power (Phoola)	600 KW	0.60	2.749283	4.880	1.336
6	SKR Hydro Power	400 Kw	0.40	1.339048	4.880	0.650
7	Gill aqua MBL-2 Vill.-Kala Chakk	2x3 MW	6.00	5.328989	4.120	2.171
8	Gill aqua MBL-3 Vill.-Gandia Nehri	3.8 MW	3.80	2.773611	4.260	1.158
9	UBDC	2	2.00	8.004600	5.160	4.127
10	P & R Gurdittwala	2	2.00	9.744300	4.600	4.447
11	Majha Canal	0.650 MW	0.65	0.496300	5.160	0.239
12	Kotla renewable Pvt. Ltd. (Daudhar)	3 x 0.5 MW	1.50	1.394100	2.860	0.395
13	Kotla renewable Pvt. Ltd. (Nidampur)	2 x 0.4 MW	0.80	0.386000	3.940	0.147
14	Kotla renewable Pvt. Ltd. (Thuhl)	2 x 0.4 MW	0.80	0.000000	3.940	0.000
	Total Individual Dev.	23.8	23.80	49.869253		21.970
(f)	PEDA					
1	Narangwal MHP	2x750 KW	1.50	0.000000	4.445	-0.007
2	Dalla MHP	2x500 KW	1	3.322500	4.445	1.473
3	Tugal MHP	2x750 KW	1.50	3.517000	4.445	1.556
4	Chupki MHP	2x750 KW	1.50	0.763845	4.445	0.330
5	Khaira MHP	2x500 KW	1	4.262046	4.030	1.713
6	Kanganwal MHP	2x650 KW	1.30	1.878921	3.841	0.713
7	Bowani MHP	2x500 KW	1.00	2.799890	3.833	1.069
8	Jagera MHP	2x500 KW	1	2.875408	3.650	1.046
	Total PEDA	9.8	9.80	19.419610		7.892
	Total Mini Hydel	62.60	62.60	151.977930		60.949
Own Hydel Project						
1	UBDC Stage I&II	91.36	91.36	373.414000		
2	Micro Hydel					
	Rohti	0.8	0.8	0.000000		

6.5

Sr.No.	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff / unit (Rs./kWh)	Amount in Rs. (crores)
ii	Ropar	1.7	1.7	6.223640		
	Total Micro Hydel	2.5	2.5	6.223640		
3	Mukerian MHP-5	18	18	73.588000		
	Total Own Hydel	111.85	111.85	453.235640		
BIO- MASS						
(C)	Co Generation					
a	Bagasse					
1	Rana Sugars Ltd	12 MW	10.20	0.000000	5.890	0.000
2	Rana Sugars Ltd	34 MW	20	62.898000	6.340	39.877
3	A.B. Sugars Lts	23 MW	20	64.526400	6.341	40.915
4	Chadha Sugars Ltd	23 MW	18	53.116466	6.107	32.437
5	Wahid Sandhar Sugars Mill	12 MW	7	16.326360	6.581	10.711
6	Indian Sucrose	12 MW	6	18.500640	6.414	11.866
7	Nawanshahr Power P. Ltd.	15 MW	13.50	20.364000	6.650	13.542
	Total Bagasse	131	94.70	235.731866		149.348
b	Biomass					
1	Chandigarh Distillers & Bottlers	3.80 MW	2.50	4.008000	3.490	1.399
2	Chandigarh Distillers & Bottlers	8.25 MW	5	18.050559	6.341	11.362
3	Indian Acrylics Pvt Ltd	7.75 MW	1.50	0.000000	3.490	0.000
4	NV Distilleries	10 MW	6	47.278854	6.482	30.648
5	A.B. Grain & Spirits	5.50 MW	3	4.763794	6.170	2.939
6	Lakshmi Energy & food	30 MW	24	12.383520	6.182	7.655
7	International Mega Foods Park	4 MW	4.00	3.086310	7.014	2.165
8	Shree Ganesh Edibles Pvt. Ltd.	2.92 MW	0.5	0.326550	5.080	0.038
	Total Biomass co-gen	72.32	46.60	89.897587		56.206
	Total Co-Gen.	203.32	141.20	325.629453		205.554
(b)	Biomass/IPP					
1	Malwa Power Pvt.Ltd	6 MW	6.00	47.204100	6.750	31.666
2	Universal Biomass	14.50 MW	14.50	98.860000	6.825	67.208
3	Dee.Dev.	8 MW	8.00	52.647200	6.410	33.622
4	Green Planet Binzon	6 MW	6.00	18.589904	7.340	13.256
5	Green Planet Birpind	6 MW	6.00	20.639610	7.590	15.297
6	Viaton Energy Ltd.	10 MW	10.00	54.562044	7.590	40.914
7	A2Z Nakoder	15 MW	15	2.074020	6.630	21.63
8	A2Z Fazilka	15 MW	15	0.000000	6.630	21.63
	Total Biomass/IPP	80.50	80.50	294.576878		202.838
	Bio Gas					
1	Sampuran Agri Ventures	1 MW	0.70	0.949512	8.538	0.475
2	Hargobind bio energy	0.5 MW	0.50	0.177660	8.325	0.119
3	Green Planet (Otto cycle)	4 MW	4.00	0.342468	0.000	0.000
	Total Biogas	5.5	5.20	1.469640		0.594
(d)	Waste					
1	Hebawal Biometh.LDH	1 MW	1	0.043200	3.490	-0.026
	Total Waste	1	1	0.043200	3.490	-0.026
	Other Non-Solar					
	Short Term			0.000000		0.000
TOTAL						
A	i) Long term Non-Solar purchase	454.67	392.25	1226.932741		469.910
	ii) Expected from upcoming projects			474.700000		172.860
	iii) Short term Non-Solar purchase			0.000000		0.000
	iiii) Non-Solar RECs(MU) purchase			0.000000		0.000
	Total of Non-Solar (i+ii+iii+iv)			1701.632741		642.770
B	i) Long term Solar purchase	951.27	951.27	1442.467684		986.304
	ii) Expected from upcoming projects			0.000000		0.000
	iii) Solar Power received through Net-Metering			100.000000		0.000
	iiii) Solar RECs(MU) purchase			0.000000		0.000
	Total of Solar (i+ii+iii+iv)			1542.467684		986.304
	Total of Solar and Non-Solar	1405.94	1343.52	3244.10		1629.074

6.3

Power purchase from NRSE Projects during (projected) FY 2020-21 Annexure-N3

Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
A						
Solar						
	Solar Intrastate					
1	Bajak SPV	50 KW	0.05	0.000000		0.000
2	Khatkar Kalan SPV	200 KW	0.20	0.000000	3.487	0.000
3	Phukokhari SPV	1 MW	1.00	1.318300	8.946	1.159
4	Soma Plant, Khara Kalmout	1 MW	1.00	0.979000	14.950	1.442
5	Carilli Energy P.Ltd., Bhagsar,	1.5 MW	1.50	2.208390	17.910	3.930
6	Econenergy Inc. Boparai Kalan	1.MW	1.00	1.000905	17.910	1.775
7	G.S.Atwal & co., Bhuttiwal	1.5 MW	1.50	1.942884	17.910	3.438
8	Sovax Renewables Solar, Mahndipur	1 MW	1.00	0.858282	17.910	1.516
9	EBS, Sahiba Shadra, Balachour	1.5 MW	1.50	1.918870	8.247	1.564
10	RSSB (Roof top) -I, Bias	7.52 MW	7.52	9.213920	7.670	7.006
11	RSSB (Roof top) -II, Bias	12 MW	12.00	15.802204	7.720	12.047
12	Madhav Solar P. Ltd.-I, Boha, Budlada	2 MW	2.00	2.829519	7.200	2.026
13	Madhav Solar P. Ltd.-II, Boha, Budlada	2 MW	2.00	2.949675	7.470	2.192
14	Azure Tahilwala -I (Tahilwal jattan)	15 MW	15.00	19.890648	7.670	15.122
15	Azure power II (Punjaba/Sikhwala)	15 MW	15.00	20.325582	7.970	16.056
16	Azure power III (Punjaba/Sikhwala)	4 MW	4.00	5.524344	8.280	4.524
17	Azure Makemake, Bhuttiwala	4 MW	4.00	6.030126	7.330	4.378
18	Azure Makemake, Killiwali	24 MW	24.00	35.859765	7.190	25.620
19	Azure Renewable, Skyross	1.280 MW	1.280	1.427100	5.090	0.752
20	Azure Renewable, Bhagwant Singh & Other	0.550 MW	0.550	0.238960	5.090	0.135
21	Azure Renewable, Canam	1.597 MW	1.597	1.674400	5.090	0.885
22	Azure Renewable, Bhagwant Kulwin	1.304 MW	1.304	0.607320	5.090	0.316
23	Azure Renewable, Mansa	0.630 MW	0.630	0.756800	5.090	0.395
24	Azure Renewable, CA Veg Fruit	0.599 MW	0.599	0.702798	5.090	0.370
25	Azure Renewable, Boss comp	1.250 MW	1.250	1.162800	5.090	0.613
26	Azure Renewable, Ludhiana	0.782 MW	0.782	0.716055	5.090	0.371
27	Azure Renewable, Mohali	2.048 MW	2.048	2.309100	7.590	1.651
28	International Switchgears -I, Ramdas	1 MW	1.00	1.323781	7.750	1.015
29	International Switchgears -II, Ramdas,	1 MW	1.00	1.302000	7.650	0.985
30	Vector Green Surya	20 MW	20.00	31.128000	8.490	26.193
31	Vector Green Sunshine, Gamlwala, Boha	20 MW	20.00	31.632000	7.450	23.387
32	Omega Solar, Sangathpura, Leheragaga	10 MW	10.00	14.548608	8.740	12.604
33	Essel Renewable Energy Ltd, Barre	10 MW	10.00	14.304000	8.650	12.285
34	Essal Clean Energy, Lakhmirwala	20 MW	20.00	27.876000	8.700	24.085
35	North Star Solar Power p.Ltd, Pathrala	4 MW	4.00	5.904639	8.290	4.832
36	Focal energy, Nangla, Talwandi Sabo	4 MW	4.00	6.104400	8.300	5.024
37	Welspun energy-I, Tiona pujaran,	20 MW	20.00	28.545660	8.330	23.559
38	Welspun energy-II, Jagaram tirath,	10 MW	10.00	14.404650	8.420	12.023
39	Welspun energy-III, Jagaram Tirath,	2 MW	2.00	2.868480	8.560	2.441
40	Welspun energy-IV, Tiona pujaran,	4 MW	4.00	5.504445	7.710	4.188
41	TR energy-I, Jandwala mirsangla, Fzk	2 MW	2.00	3.092400	7.750	2.379
42	TR energy-II, Pathrala, Btd	1 MW	1.00	1.574004	7.590	1.184
43	Nextgen Solux-I, Mirpur Kalan	1 MW	1.00	1.534360	8.450	1.289
44	Nextgen Solux-II, Jhunir, Mansa	1 MW	1.00	1.526200	7.290	1.103
45	Solairdirect- Muradwala dharangwala Fazil	20 MW	20.00	29.382420	7.990	23.347
46	Solaire Power Pvt. Ltd. Uamankhara, Abohi	24 MW	24.00	36.023685	6.880	24.637
47	Allianz Ecopower, Mirpur Kalan, sardulgarh	2 MW	2.00	2.787738	8.450	2.341
48	IK Energy, Lallian Kalan	1 MW	1.00	1.394250	8.480	1.170
49	Atma Powers, Lakewall	2 MW	2.00	2.980500	8.410	2.489
50	Aditya Medisales, Lalpur,	4 MW	4.00	5.916000	7.850	4.595
51	Abundant Energy, China bidhi chand sur sin,	2 MW	2.00	2.571250	8.550	2.189
52	Abundant Energy-II	1 MW	1.00	1.341750	7.680	0.964
53	Earth Solar, Behbaipur, Nabha	4 MW	4.00	5.172000	7.290	3.722
54	Mokia Green Energy P.Ltd.Boha	4 MW	4.00	5.976000	8.590	5.079
55	JSSK Energy, Bhagsar	1 MW	1.00	1.531360	7.630	1.161
56	Continental Eng& Power P.Ltd.Kotahmani	1 MW	1.00	1.523550	7.480	1.129
57	Pursham Ind. Bajak	3 MW	3.00	4.459629	7.390	3.259
58	Vivaan Solar P.Ltd, Bazak	2 MW	2.00	2.963199	7.400	2.181
59	Mihit Solar Power P.Ltd., Jhandakalan	24 MW	24.00	36.015100	7.160	25.643
60	Mihit Solar Power P.Ltd., Kherakhurad	25 MW	25.00	36.459200	7.060	25.516
61	Mihit Solar Power P.Ltd., Mankhara	25 MW	25.00	37.999300	7.060	26.609
62	ACME Rooftop Solar Nangla	15 MW	15.00	21.843900	7.570	16.430
63	Acme Solar Rooftop Jhunir	15 MW	15	22.077900	7.570	16.610
64	Magnificent Power, Jhunir,	1 MW	1.00	1.551600	7.290	1.123
65	Aster Solar, Jhunir, Mansa	1 MW	1.00	1.605200	7.370	1.174
66	BIPL. P. Ltd. Mirpur Kalan	15 MW	15.00	22.023000	6.880	15.047
67	BIDL. P. Ltd, Mirpur Kalan	15 MW	15.00	21.906000	6.880	14.978
68	Oasis green, Bahadupur, Budhlada	3 MW	3.00	4.227000	7.720	3.229
69	Solair urja pvt ltd, Daultpura, Fzk	25 MW	25	36.098265	6.880	24.673
70	Prayatna Developers, Sardargarh, Btd	50 MW	50.00	89.853522	5.800	51.852
71	Prayatna Developers, Chughekalan, Btd	50 MW	50.00	90.775643	5.950	53.737
72	Megnet -I, Shekhawala, Mansa	25 MW	25.00	37.105000	5.980	22.031
73	Megnet-II, Toderpur&Maghania, Mansa	25 MW	25.00	37.571000	5.980	22.298
74	Radiant, Pathrala, Btd	3 MW	3.00	4.001880	5.920	2.338
75	Omega Infra, Chaurwala, Fqs	1 MW	1.00	1.390600	5.090	0.705
76	Azure Power Pluto Pvt. Ltd. Bhuttiwala	10 Mw	10.00	16.327944	5.640	9.154

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77	Azure Power Pluto Pvt. Ltd. Bahadurkhara	25 MW	25.00	37.668610	5.620	21.067
78	Azure Power Pluto Pvt. Ltd. Vanwala	25 MW	25.00	38.235225	5.640	21.444
79	Azure Power Pluto Bahadur Jandia-2	25 MW	25.00	37.583325	5.630	21.240
80	Azure Power Pluto Bahadur Jandia-1	25 MW	25.00	37.913310	5.630	21.052
81	Azure Power Pluto Korianwall	25 MW	25.00	37.937981	5.620	21.205
82	Azure Power Pluto Badal	15 MW	15.00	22.634181	5.640	12.692
83	SAM SOLAR p ltd. doraha cantop	2.5 MW	2.50	3.075734	7.090	2.147
84	SAM SOLAR p ltd. Nidampur Sgr	2.5 MW	2.50	3.419100	7.010	2.385
85	Mytrah Adhya-Bairan, Bakhora Kalan, Sgr	25 MW	25.00	42.27215760	5.970	25.071
86	Mytrah Adhya-Barata,	25 MW	25.00	34.710000	5.970	20.597
87	Photon Sunbeam-1	15 MW	15.00	22.729800	5.080	11.450
88	Photon Sunbeam-2	25 MW	25.00	30.045510	5.080	15.152
89	vijay printing press pvt. Ltd.	7.5 MW	7.50	9.856708	4.730	4.622
90	canal solar energy pvt. Ltd.	7.5 MW	7.50	7.393500	13.216	3.525
	Total Solar Intrastate	884.27	884.27	1319.750999		882.917
	Center Sector Solar					
1	NVVN Bundled	37 MW	37.00	68.526979	10.829	73.583
2	SECI, Rajasthan	30 MW	30.00	54.189706	5.500	29.804
	Total Center Sector Solar	67 MW	67.00	122.716685		103.387
	Total Solar	951.27	951.27	1442.467684		986.304
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
(B)	MINI HYDEL					
a	Mini Hydel					
1	Punjab Hydro Ltd.					
1	Dolowal MHP	1.4 MW	1.40	5.998750	3.658	2.190
2	Salar MHP	1.5 MW	1.50	6.477380	3.658	2.366
3	Bhanbhaura MHP	1.3 MW	1.30	6.770660	3.658	2.472
	Punjab Hydro Ltd. Total.	4.20	4.20	19.246790		7.028
b	Kotla Hydro Ltd					
1	Babanpur MHP	1.25 MW	1.25	5.554200	3.658	2.029
2	Killa	1.75 MW	1.75	9.649330	3.658	3.525
3	Sahoke	1.2 MW	1.20	6.755400	3.658	2.468
	Kotla Hydro Ltd. Total	4.20	4.20	21.958930		8.021
c	Aqua Power Plant Ltd.					
1	Chakbhal MHP	2 MW	2	8.152400	3.658	2.975
2	Lohgarh	2 MW	2	7.623833	3.574	2.716
3	Sadana	1.2 MW	1.20	6.539532	4.040	2.636
	Aqua Power Plant Ltd. Total	5.20	5.20	22.315765		8.327
(d)	Abohar Power Generation					
1	Gholla MHP	1x800 KW	0.80	3.139518	4.040	1.263
2	Chanuwal MHP	1x800 KW	0.80	3.045800	4.040	1.223
3	Akhara MHP	2x550 KW	1.10	3.927334	4.040	1.580
4	Khanpur	2x550 KW	1.10	4.558000	4.040	1.835
5	Sudhar	2x700 KW	1.40	4.496930	4.040	1.811
	Total	5.30	5.30	19.167582		7.712
(e)	Individual Developers					
1	Gill Power Ltd Babhali	2.70 MW	2.70	7.970700	3.658	2.913
2	Atlantic Power (Terkiana)	650 KW	0.65	4.367690	4.046	1.766
3	Sam India	2x600 KW	1.20	3.625434	4.880	1.760
4	Sidhwan Hydro	700 KW	0.70	1.689198	5.160	0.861
5	Atlantic Power (Phoola)	600 KW	0.60	2.749283	4.880	1.336
6	SKR Hydro Power	400 Kw	0.40	1.339048	4.880	0.650
7	Gill aqua MBL-2 Vill.-Kala Chakk	2x3 MW	6.00	5.328989	4.120	2.171
8	Gill aqua MBL-3 Vill.-Gandla Nehri	3.8 MW	3.80	2.773611	4.260	1.158
9	UBDC	2	2.00	8.004600	5.160	4.127
10	P & R Gurdittwala	2	2.00	9.744300	4.600	4.447
11	Majha Canal	0.650 MW	0.65	0.496300	5.160	0.239
12	Kotla renewable Pvt. Ltd. (Daudhar)	3 x 0.5 MW	1.50	1.394100	2.860	0.395
13	Kotla renewable Pvt. Ltd. (Nidampur)	2 x 0.4 MW	0.80	0.386000	3.940	0.147
14	Kotla renewable Pvt. Ltd. (Thuhi)	2 x 0.4 MW	0.80	0.000000	3.940	0.000
	Total Individual Dev.	23.8	23.80	49.869253		21.970
(f)	PEDA					
1	Narangwal MHP	2x750 KW	1.50	0.000000	4.445	-0.007
2	Dalla MHP	2x500 KW	1	3.322500	4.445	1.473
3	Tugal MHP	2x750 KW	1.50	3.517000	4.445	1.556
4	Chupki MHP	2x750 KW	1.50	0.763845	4.445	0.330
5	Khatra MHP	2x500 KW	1	4.262046	4.030	1.713
6	Kanganwal MHP	2x650 KW	1.30	1.878921	3.841	0.713
7	Bowani MHP	2x500 KW	1.00	2.799890	3.833	1.069
8	Jagersa MHP	2x500 KW	1	2.875408	3.650	1.046
	Total PEDA	8.8	9.80	19.419610		7.892
	Total Mini Hydel	52.50	52.50	151.977930		60.949
	Own Hydel Project					
1	UBDC Stage I&II	91.36	91.36	373.414000		
2	Micro Hydel Rohti	0.8	0.8	0.000000		

15.3

	ii Ropar	1.7	1.7	6.223640		
	Total Micro Hydel	2.5	2.5	6.223640		
3	Mukerian MHP-6	18	18	73.598000		
	Total Own Hydel	111.85	111.85	453.235640		
Sr.No.	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff / unit (Rs./kWh)	Amount in Rs. (crores)
(C)	BIO- MASS					
	Co Generation					
a	Bagasse					
1	Rana Sugars Ltd	12 MW	10.20	0.000000	5.890	0.000
2	Rana Sugars Ltd	34 MW	20	62.898000	6.579	41.383
3	A.B. Sugars Lts	23 MW	20	64.526400	6.581	42.467
4	Chadha Sugars Ltd	23 MW	18	53.116466	6.346	33.705
5	Wahid Sandhar Sugars Mill	12 MW	7	16.326360	6.801	11.104
6	Indian Sucrose	12 MW	6	18.500640	6.659	12.319
7	Newanshahr Power P. Ltd.	15 MW	13.50	20.364000	6.850	13.948
	Total Bagasse	131	94.70	235.731866		154.927
b	Biomass					
1	Chandigarh Distillers & Bottlers	3.90 MW	2.50	4.008000	3.490	1.399
2	Chandigarh Distillers & Bottlers	8.25 MW	5	18.050559	6.581	11.793
3	Indian Acrylics Pvt Ltd	7.75 MW	1.50	0.000000	0.000	0.000
4	NV Distilleries	10 MW	6	47.278854	6.952	32.869
5	A.B. Grain & Spirits	5.50 MW	3	4.763794	6.639	3.163
6	Lakshmi Energy & food	30 MW	24	12.383520	6.651	8.236
7	International Mega Foods Park	4 MW	4.00	3.086310	7.568	2.336
8	Shree Ganesh Edibles Pvt. Ltd.	2.92 MW	0.5	0.326550	5.337	0.040
	Total Biomass co-gen	72.32	48.80	89.897587		59.835
	Total Co-Gen.	203.32	141.20	325.629453		214.762
(b)	Biomass/IPP					
1	Mahwa Power Pvt.Ltd	8 MW	6.00	47.204100	7.011	32.891
2	Universal Biomass	14.50 MW	14.50	98.860000	7.068	69.599
3	Dee.Dev.	8 MW	8.00	52.647200	6.652	34.894
4	Green Planet Binzon	6 MW	6.00	18.589904	7.601	13.727
5	Green Planet BirPind	6 MW	6.00	20.639610	7.856	15.833
6	Viaton Energy Ltd.	10 MW	10.00	54.562044	7.856	42.348
7	A2Z Nakoder	15 MW	15	2.074020	6.864	0.906
8	A2Z Fazilka	15 MW	15	0.000000	6.864	0.000
	Total Biomass/IPP	80.50	80.50	294.576878		210.198
	Bio Gas					
1	Sampuran Agri Ventures	1 MW	0.70	0.949512	8.785	0.489
2	Hargobind bio energy	0.5 MW	0.50	0.177660	8.561	0.122
3	Green Planet (Otto cycle)	4 MW	4.00	0.342468	0.000	0.000
	Total Biogas	5.5	5.20	1.469640		0.612
(d)	Waste					
1	Hebawal Biometh.LDH	1 MW	1	0.043200	3.490	-0.026
	Total Waste	1	1	0.043200	3.490	-0.026
						0.000
€	Other Non-Solar					
	Short Term			0.000000		0.000
	TOTAL					
A	i) Long term Non-Solar purchase	454.67	392.26	1226.932741		486.495
	ii) Expected from upcoming projects			1860.000000		687.690
	iii) Short term Non-Solar purchase			0.000000		0.000
	iiii) Non-Solar RECs(MU) purchase			0.000000		0.000
	Total of Non-Solar (i+ii+iii+iv)			3086.932741		1174.185
B	i) Long term Solar purchase	951.27	951.27	1442.467684		986.304
	ii) Expected from upcoming projects			33.000000		0.000
	iii) Solar Power received through Net-Metering			150.000000		0.000
	iiii) Solar RECs(MU) purchase			0.000000		0.000
	Total of Solar (i+ii+iii)			1625.467684		986.304
	Total of Solar and Non-Solar	1405.94	1343.52	4712.40		2160.489

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Power purchase from NRSE Projects during (projected) FY 2021-22 Annexure-N4

Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff /unit (Rs./kWh)	Amount in Rs. (crores)
A						
Solar						
Solar Intrastate						
1	Bajak SPV	50 KW	0.05	0.000000		0.000
2	Khatkar Kalan SPV	200 KW	0.20	0.000000	3.487	0.000
3	Phulokheri SPV	1 MW	1.00	1.318300	8.946	1.159
4	Soma Plant, Khera Kalmout	1 MW	1.00	0.979000	14.950	1.442
5	Carill Energy P.Ltd., Bhagsar,	1.5 MW	1.50	2.208390	17.910	3.930
6	Econenergy Inc. Boparai kalan	1 MW	1.00	1.000905	17.910	1.775
7	G.S.Atwal & co., Bhattiwal	1.5 MW	1.50	1.942884	17.910	3.438
8	Sovax Renewables Solar, Mehndipur	1 MW	1.00	0.858282	17.910	1.516
9	EBS, Sahiba Shadra, Balachour	1.5 MW	1.50	1.918870	8.247	1.564
10	RSSB (Roof top) -I, Bias	7.52 MW	7.52	9.213920	7.670	7.008
11	RSSB, (Roof top) -II, Bias	12 MW	12.00	15.802204	7.720	12.047
12	Madhav Solar P. Ltd.-I, Boha, Budlada	2 MW	2.00	2.829519	7.200	2.026
13	Madhav Solar P. Ltd.-II, Boha, Budlada	2 MW	2.00	2.949675	7.470	2.192
14	Azure Tahlwala -I (Tahlwala Jattan)	15 MW	15.00	19.890648	7.670	15.122
15	Azure power II (Punjaba/Sikhwala)	15 MW	15.00	20.325582	7.970	16.056
16	Azure power III (Punjaba/Sikhwala)	4 MW	4.00	5.524344	8.280	4.524
17	Azure Makemake, Bhattiwala	4 MW	4.00	6.030126	7.330	4.378
18	Azure Makemake, Killiwali	24 MW	24.00	35.859765	7.190	25.620
19	Azure Renewable, Skyross	1.260 MW	1.260	1.427100	5.090	0.752
20	Azure Renewable, Bhagwant Singh & Other	0.550 MW	0.550	0.238960	5.090	0.135
21	Azure Renewable, Canam	1.597 MW	1.597	1.674400	5.090	0.885
22	Azure Renewable, Bhagwant Kulwin	1.304 MW	1.304	0.607320	5.090	0.316
23	Azure Renewable, Mansa	0.630 MW	0.630	0.756800	5.090	0.395
24	Azure Renewable, CA Veg Fruit	0.599 MW	0.599	0.702798	5.090	0.370
25	Azure Renewable, Boss comp	1.250 MW	1.250	1.162800	5.090	0.613
26	Azure Renewable, Ludhiana	0.762 MW	0.762	0.716055	5.090	0.371
27	Azure Renewable, Mohali	2.048 MW	2.048	2.309100	7.590	1.651
28	International Switchgears -I, Ramdas	1 MW	1.00	1.323781	7.750	1.015
29	International Switchgears -II, Ramdas,	1 MW	1.00	1.302000	7.650	0.985
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36	Focal energy, Nangla, Taiwandi Sabo	4 MW	4.00	6.104400	8.300	5.024
37	Welspun energy-I, Tiona puarian,	20 MW	20.00	28.545660	8.330	23.559
38	Welspun energy-II, Jagaram tirath,	10 MW	10.00	14.404650	8.420	12.023
39	Welspun energy-III, Jagaram Tinath	2 MW	2.00	2.868480	8.560	2.441
40	Welspun energy- IV, Tiona puarian,	4 MW	4.00	5.504445	7.710	4.188
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51	Abundant Energy, China bidhi chand sur sin	2 MW	2.00	2.571250	8.550	2.189
52	Abundant Energy-II	1 MW	1.00	1.341750	7.680	0.964
53	Earth Solar, Behbalpur, Nabha	4 MW	4.00	5.172000	7.290	3.722
54	Mokia Green Energy P.Ltd.Boha	4 MW	4.00	5.976000	8.590	5.079
55	JSSK Energy, Bhagsar	1 MW	1.00	1.531360	7.630	1.161
56	Continental Eng& Power P.Ltd.Kotshmani	1 MW	1.00	1.523550	7.480	1.129
57	Pursham Ind Bajak	3 MW	3.00	4.459629	7.390	3.259
58	Vivaan Solar P.Ltd., Bazak	2 MW	2.00	2.963199	7.400	2.181
59	Mihit Solar Power P Ltd., Jhandakalan	24 MW	24.00	36.015100	7.160	25.643
60	Mihit Solar Power P Ltd., Kherakhurad	25 MW	25.00	36.459200	7.060	25.516
61	Mihit Solar Power P Ltd., Mankhera	25 MW	25.00	37.999300	7.060	26.609
62	ACME Rooftop Solar Nangla	15 MW	15.00	21.843900	7.570	16.430
63	Acme Solar Rooftop Jhunir	15 MW	15	22.077000	7.570	16.610
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68	Oasis green, Bahadupur, Budhlada	3 MW	3.00	4.227000	7.720	3.229
69	Solair urja pvt ltd.Daultpura, Fzk	25 MW	25	36.098265	6.880	24.673
70	Prayana Developers, Sardargarh, Btd	50 MW	50.00	89.853522	5.800	51.852
71	Prayana Developers, Chughakalan, Btd	50 MW	50.00	90.775643	5.950	53.737
72	Megnet -I, Shekhawala, Mansa	25 MW	25.00	37.105000	5.980	22.031
73	Megnet-II, Toderpur&Magharina, Mansa	25 MW	25.00	37.571000	5.980	22.298
74	Radient, Pathrala, Btd	3 MW	3.00	4.001880	5.920	2.338
75	Omega infra, Chaurwala, Fgs	1 MW	1.00	1.390600	5.090	0.705
76	Azure Power Pluto Pvt. Ltd.Bhattiwala	10 Mw	10.00	16.327944	5.640	9.154

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77	Azure Power Pluto Pvt. Ltd. Bahadurkhera	25 MW	25.00	37.668610	5.620	21.067
78	Azure Power Pluto Pvt. Ltd. Varwala	25 MW	25.00	38.235225	5.640	21.444
79	Azure Power Pluto Bahadur Jandia-2	25 MW	25.00	37.583325	5.630	21.240
80	Azure Power Pluto Bahadur Jandia-1	25 MW	25.00	37.913310	5.630	21.052
81	Azure Power Pluto, Korianwali	25 MW	25.00	37.937981	5.620	21.205
82	Azure Power Pluto, Badal	15 MW	15.00	22.634181	5.640	12.692
83	SAM SOLAR p ltd. doraha cantop	2.5 MW	2.50	3.075734	7.030	2.147
84	SAM SOLAR p ltd. Nidampur Sgr	2.5 MW	2.50	3.419100	7.010	2.385
85	Mytrah Adhya-Bairan, Bakhora Kalan, Sgr	25 MW	25.00	42.27215760	5.970	25.071
86	Mytrah Adhya-Bareta,	25 MW	25.00	34.710000	5.970	20.597
87	Photon Sunbeam-1	15 MW	15.00	22.729800	5.080	11.450
88	Photon Sunbeam-2	25 MW	25.00	30.045510	5.080	15.152
89	vijay printing press pvt. Ltd.	7.5 MW	7.50	9.856708	4.730	4.622
90	canal solar energy pvt. Ltd.	7.5 MW	7.50	7.393500	13.216	3.525
	Total Solar Intrastate	884.27	884.27	1319.750999		882.917
	Center Sector Solar					
1	NVVN Bundled	37 MW	37.00	68.526979	10.829	73.583
2	SECI, Rajasthan	30 MW	30.00	54.189706	5.500	29.804
	Total Center Sector Solar	67 MW	67.00	122.716685		103.387
	Total Solar	951.27	951.27	1442.467684		986.304
Sr.No	Name of Project	Inst.Cap.	Offer to PSPCL (MW)	Energy Procured (MU)	Tariff / unit (Rs./kWh)	Amount in Rs. (crores)
(B) MINI HYDEL						
a	Mini Hydel					
1	Punjab Hydro Ltd.					
1	Dolowal MHP	1.4 MW	1.40	5.998750	3.658	2.190
2	Saler MHP	1.5 MW	1.50	6.477380	3.658	2.366
3	Bhanbhaura MHP	1.3 MW	1.30	6.770660	3.658	2.472
	Punjab Hydro Ltd. Total.	4.20	4.20	19.246790		7.028
b	Kotla Hydro Ltd					
1	Babanpur MHP	1.25 MW	1.25	5.554200	3.658	2.029
2	Killa	1.75 MW	1.75	9.649330	3.658	3.525
3	Sahoke	1.2 MW	1.20	6.755400	3.658	2.468
	Kotla Hydro Ltd. Total	4.20	4.20	21.958930		8.021
c	Aqua Power Plant Ltd.					
1	Chakbhai MHP	2 MW	2	8.152400	3.658	2.975
2	Lohgarh	2 MW	2	7.623833	3.574	2.716
3	Sadana	1.2 MW	1.20	6.539532	4.040	2.636
	Aqua Power Plant Ltd. Total	6.20	5.20	22.315765		8.327
d	Abohar Power Generation					
1	Ghola MHP	1x800 KW	0.80	3.139518	4.040	1.263
2	Channuwal MHP	1x900 KW	0.90	3.045800	4.040	1.223
3	Akhara MHP	2x550 KW	1.10	3.927334	4.040	1.580
4	Khanpur	2x550 KW	1.10	4.558000	4.040	1.835
5	Sudhar	2x700 KW	1.40	4.496930	4.040	1.811
	Total	6.30	5.30	19.167582		7.712
e	Individual Developers					
1	Gill Power Ltd Babhel	2.70 MW	2.70	7.970700	3.658	2.913
2	Atlantic Power (Terkiana)	650 KW	0.65	4.367690	4.046	1.766
3	Sam India	2x600 KW	1.20	3.625434	4.880	1.760
4	Sidhwan Hydro	700 KW	0.70	1.689198	5.160	0.861
5	Atlantic Power (Phoola)	600 KW	0.60	2.749283	4.880	1.336
6	SKR Hydro Power	400 Kw	0.40	1.339048	4.880	0.650
7	Gill aqua MBL-2 Vill.-Kaia Chakk	2x3 MW	6.00	5.328989	4.120	2.171
8	Gill aqua MBL-3 Vill.-Gandia Nehri	3.8 MW	3.80	2.773611	4.260	1.158
9	UBDC	2	2.00	8.004600	5.160	4.127
10	P & R Gurdittwala	2	2.00	9.744300	4.600	4.447
11	Majha Canal	0.650 MW	0.65	0.496300	5.160	0.239
12	Kotla renewable Pvt. Ltd. (Daudhar)	3 x 0.5 MW	1.50	1.394100	2.860	0.395
13	Kotla renewable Pvt. Ltd. (Nidampur)	2 x 0.4 MW	0.80	0.386000	3.940	0.147
14	Kotla renewable Pvt. Ltd. (Thuhi)	2 x 0.4 MW	0.80	0.000000	3.940	0.000
	Total Individual Dev.	23.8	23.80	49.869253		21.970
f	PEDA					
1	Narangwal MHP	2x750 KW	1.50	0.000000	4.445	-0.007
2	Dalla MHP	2x500 KW	1	3.322500	4.445	1.473
3	Tugal MHP	2x750 KW	1.50	3.517000	4.445	1.556
4	Chupki MHP	2x750 KW	1.50	0.763845	4.445	0.330
5	Khatra MHP	2x500 KW	1	4.262046	4.030	1.713
6	Kanganwal MHP	2x650 KW	1.30	1.878921	3.841	0.713
7	Bowani MHP	2x500 KW	1.00	2.799890	3.833	1.069
8	Jagera MHP	2x500 KW	1	2.875408	3.650	1.046
	Total PEDA	9.8	9.80	19.419610		7.892
	Total Mini Hydel	52.50	52.50	151.977930		60.949
Own Hydel Project						
1	UBDC Stage I&II	91.35	91.35	373.414000		
2	Micro Hydel					
i	Rohti	0.8	0.8	0.000000		

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