



# यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

## UJVN LIMITED

(A Govt. of Uttarakhand Enterprise)

कार्यालय निदेशक (परिचालन), "उज्जवल", महारानी बाग, जी०एम०एस० रोड, देहरादून - 248 008 (उत्तराखण्ड), दूरभाष: 0135-2761484, फ़ैक्स: 0135-2763508  
Office of the Director (Operations), "UJJWAL", Maharani Bagh, G.M.S. Road, Dehradun - 248 006 (Uttarakhand), Phone: 0135-2761484, Fax: 0135-2763508  
CIN No. 40101UR2001SGC025866 ISO 9001:2008 Certified

No. 39 /UJVNL/02/D(O)/ B P-1

Dated: 07 January, 2019

The Secretary,  
Uttarakhand Electricity Regulatory Commission  
"Vidyut Niyamak Bhawan"  
Near ISBT, Dehradun

**Subject: Petitions for approval of Business Plan for third control period from FY 2019-20 to FY 2021-22 for 10 LHPs of UJVN Ltd.**

Sir,

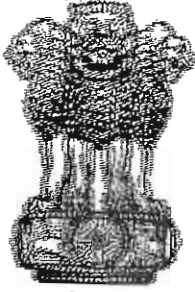
Please find enclosed herewith Reply under affidavit against the Hon'ble UERC's letter no. - UERC/6/TF/508/2018-19/1303 dated 18/12/2018 on the captioned subject matter for kind consideration of the Hon'ble Commission please.

We hope your kind self would find the above in order. We shall be please to furnish further information/clarification on the matter as and when required.

Thanking you,

Yours Sincerely,

(Purushottam Singh)  
Director (Operations)  
Encl. As above

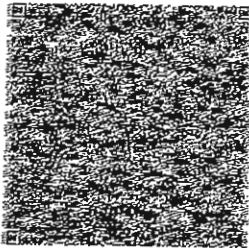


सत्यमेव जयते

# INDIA NON JUDICIAL Government of Uttarakhand

## e-Stamp

Certificate No.	: IN-UNES4735541997520
Certificate Issued Date	: 11-Dec-2018 12:57 PM
Account Reference	: INCONACC (SV)/ uk1233804/ DEHRADUN/ UK-DNH
Unique Doc. Reference	: SUEN-UNUK123380410622801171350
Purchased by	: UJVN
Description of Document	: Article Miscellaneous
Property Description	: NA
Consideration Price (Rs.)	: 0 (Zero)
First Party	: UJVN
Second Party	: NA
Stamp Duty Paid By	: UJVN
Stamp Duty Amount (Rs.)	: 10 (Ten only)



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### BEFORE THE HON'BLE UTTARAKHAND ELECTRICITY REGULATORY COMMISSION

**In the matter of:** Filing of reply in respect of additional deficiencies/ shortcomings desired by the Hon'ble UERC pertaining to the Petition filed by UJVN Ltd for approval of Business Plan for third control period from FY 2019-20 to FY 2021-22.

AND

**In the matter of:** UJVN Ltd. is a Company incorporated under the provisions of the Companies Act, 1956 and having its registered office at "UJWAL", Maharani Bagh, GMS Road, Dehradun.

.....Petitioner.

(Purushottam Singh)  
Director (Operational)  
UJVN LTD.


**Statutory Notice**

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2. The nature of attesting the digital stamp certificate should be verified.
3. In case of any discrepancy, please refer to the concerned authority.

**Affidavit**

I, Purushottam Singh S/o Late Sh. Perdiya, aged 55 years, working as Director (Operations), UJVN Ltd., residing at P-V/1, Yamuna Colony, Dehradun-248001 the deponent named above, do hereby solemnly affirm and state on oath as under: -

1. That the deponent, the petitioner in the matter, is the Director (Operations) of UJVN Ltd., Maharani Bagh, G.M.S. Road, Dehradun and is acquainted with the facts deposed below.
2. I, the deponent named above do hereby verify that the contents of the Paragraph No. 1 of the affidavit and those of the Reply with Annexures in respect of additional deficiencies/ shortcomings desired by the Hon'ble UERC pertaining to the Petition filed by UJVN Ltd for approval of Business Plan for third control period from FY 2019-20 to FY 2021-22 are true and correct to my personal knowledge and based on the perusal of official records, information received and the legal advice which I believe to be true and verify that no part of this affidavit is false and nothing material has been concealed.

  
(Purushtottam Singh)  
Director (Operation)  
UJVN Ltd.

I, V.S. Negi Advocate, Dehradun, do hereby declare that the person making this affidavit is known to me and I am satisfied that he is the same person alleging to be deponent.

  
(Advocate)

Solemnly affirmed before me on this 07<sup>th</sup> day of Jan 2018 at 3:50 a.m./ p.m. by the deponent who has been identified by the aforesaid advocate.

I have satisfied myself by examining the deponent that he understood the contents of the affidavit, which has been read over and explained to him. He has also been explained about Section 193 of Indian Penal Code that whosoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.



(Notary Public)

VERIFICATION

I, Purushottam Singh S/o Late Sh. Perdiya, aged 55 years, working as Director (Operations), UJVN Ltd., residing at P-V/1, Yamuna Colony, Dehradun-248001 do hereby verify that the contents of the Reply with Annexures in respect of additional deficiencies/ shortcomings desired by the Hon'ble UERC pertaining to the Petition filed by UJVN Ltd for approval of Business Plan for third control period from FY 2019-20 to FY 2021-22 are true and correct to my personal knowledge and based on the perusal of official records, information received and the legal advice which I believe to be true.



(Signature of Petitioner)

(Purushottam Singh)  
Director (Operation)  
UJVN Ltd.  
Dehradun



This affidavit is sworn before me by  
Shri ... Purushottam Singh  
who is identified by Shri. V.S. Nehra  
at Dehradun on ... 07/11/2019 Adv. DS

(V.S. Nehra)  
Advocate & Notary

07/11/2019

**Reply to UERC letter no UERC/6/TF/508/2018-19/1303 dated**  
**18.12.2018**


**Business Plan**

1. It is respectfully submitted that the desired information regarding Solar Power Projects is enclosed at **Annexure-1**.
2. It is respectfully submitted that the revised projections of Generation for FY 2019-20, 2020-21 and 2021-22 after factoring the RMU works, outages and impact of NGT order are enclosed **Annexure-2**.
3. It is respectfully submitted that the station wise details of capital expenditure are enclosed herewith at **Annexure-3** in the prescribed format.
4. It is respectfully submitted that the desired information is under compilation and shall be submitted in due course of time.
5. It is respectfully submitted that the detailed computation of loss in generation due to impact of NGT order is enclosed as **Annexure-4**. Water discharge log data for all the dams and barrages has already been submitted to Hon'ble UERC. The loss in generation due to impact of NGT order is computed as follows:

- a. NGT has directed vide its order dated 09.08.2017 as follow:

"We direct that all the revisers in the country shall maintain minimum 15% to 20 % of the average lean season flow of the river."

Further, it was directed by Secretary (GoU) vide letter no. 708/1/2018-05/24(writ)/2018 dated 05/06/18 to maintain minimum 15% of the average lean season flow of the river.

  
(Purushottam Singh)  
Director (Operation)  
P. Ltd.

In accordance to above directions, lean season has been considered the period when availability of water is less than the water required to run all the machines in power stations at full capacity.


- b. Design energy has been considered same as allowed by Hon'ble Commission in its tariff order 16/12/2004.
- c. To calculate loss in generation in order to maintain 15% of average lean season flow of the river, 15 % of average generation of last 10 year (from FY 2008-09 to FY 2017-18) of lean season has been considered.


  
(Purushottam Singh)  
Director (Operation)  
UJVN Ltd.  
Behradun

# **Annexure-1**

**Monthwise Generation Record 4.398 MW Grid Connected Solar PV at Khodri HEP.**

Month	Net Generation(K.Wh)	Billing Amount(in Rs.) @ Rs 7.80	CUF	Cumulative	Remark
Apr'17	152075	1186185	4.80	152075	
May'17	211150	1646970	6.45	363225	
June'17	118775	926445	3.75	482000	
July'17	65000	507000	1.99	547000	
Aug'17	232125	1810575	7.09	779125	
Sept'17	385675	3008265	12.18	1164800	
Oct'17	623175	4860765	19.05	1787975	
Nov'17	511175	3987165	16.14	2299150	
Dec'17	399975	3119805	12.22	2699125	
Jan'18	577525	4504695	17.65	3276650	
Feb'18	572450	4465110	19.37	3849100	
Mar'18	738475	5760105	22.57	4587575	
<b>Total</b>	<b>4587575</b>	<b>35783085</b>	<b>11.91</b>		
	Billing @Rs 7.80 (PPA with UPCL) RS.	35783085			
	Billing @Rs 7.08 (PPA with Kranti) RS.	32480031			
	UJVNL revenue Rs.	3303054			

  
**P. S. Singh**  
 E.P. (Solar)  
 UJVNL Limited  
 "UJWAL" GMS Road  
 Dehradun-245167

  
**Purushottam Singh**  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun



**Monthwise Generation Record 1.466 MW Grid Connected Solar PV at Dhakrani HEP.**

Month	Net Generation(KWh)	Billing Amount(in Rs.) @ Rs 7.75	CUF	Cumulative	Remark
Apr'17	39760	308140	3.77	39760	
May'17	0	0	0.00	39760	Metering Cubicle was damaged.
June'17	0	0	0.00	39760	Metering Cubicle was damaged.
July'17	12580	97495	1.15	52340	
Aug'17	141480	1096470	12.97	193820	
Sept'17	128350	994713	12.16	322170	
Oct'17	197080	1527370	18.07	519250	
Nov'17	163650	1268288	15.50	682900	
Dec'17	43230	335033	3.96	726130	Problem in Protection CT and PT
Jan'18	147800	1145450	13.55	873930	
Feb'18	198650	1539537.5	20.16	1072580	
Mar'18	261090	2023447.5	23.94	1333670	
<b>Total</b>	<b>1333670</b>	<b>10335942.5</b>	<b>10.39</b>		

*Signature*

**E.E. (Solar)  
JJVNL Limited  
"UJJWAL" GMS Road  
Dehradun-248001**

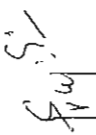
*Signature*  
(Purushottam Singh)  
Director (Operation)  
UJVNL Ltd.  
Dehradun


Billing @Rs 7.75 (PPA with UPCL) RS.	10335943
Billing @Rs 7.08 (PPA with Kranti) Rs.	9442384
UJVNL revenue Rs.	893559

**Monthwise Generation Record 7.5 MW Grid Connected Canal bank Solar PV near Dhalipur HEP, Dhalipur.**

Month	Net Generation(KWh)	Billing Amount(in Rs.) @ Rs 6.88	CUF	Cumulative	Remark
Apr'17	96	66	0.00	9.6	
Apr'17	6889.6	47400	0.13	6899.2	
May'17	51897.6	357055	0.93	58796.8	
June'17	95280	655526	1.76	154076.8	
July'17	35241.6	242462	0.63	189318.4	Due to rainy season
Aug'17	88992	612265	1.59	278310.4	
Sept'17	361996.8	2490538	6.70	640307.2	
Oct'17	364764.8	2509582	6.54	1005072	
Nov'17	136345.6	938058	2.52	1141417.6	
Dec'17	298406.4	2053036	5.35	1439824	
Jan'18	447164.8	3076494	8.01	1886988.8	
Feb'18	561654.4	3864182	11.14	2448643.2	
Mar'18	828211.2	5698093	14.84	-	
Total	3276854.4	22544758	4.988		

Billing @Rs 6.88 (PPA with UPCL) RS.	22544758
Billing @Rs 6.25 (PPA with M/s Svarog) Rs.	20480340
UJVNL revenue Rs.	2064418


  
**E.E. (Solar)**  
**UJVNL Limited**  
**"UJJWAL" GMS Road**  
**Dehradun-249306**


  
**(Purushottam Singh)**  
**Director (Operation)**  
**UJVNL Ltd.**  
**Dehradun**

**Monthwise Generation Record 7 MW Grid Connected Canal bank Solar PV near Dhakrani HEP, Dhakrani.**

Month	Net Generation(KWh)	Billing Amount(in Rs.) @ Rs 6.88	CUF	Cumulative	Remark
Apr'17	91740	631171	1.82	91740	
May'17	147141	1012330	2.83	238881	
June'17	124761	858356	2.48	363642	
July'17	231966	1595926	4.45	595608	
Aug'17	409176	2815131	7.86	1004784	
Sept'17	751809	5172446	14.92	1756593	
Oct'17	917478	6312249	17.62	2674071	
Nov'17	674958	4643711	13.39	3349029	
Dec'17	583995	4017886	11.21	3933024	
Jan'18	740805	5096738	14.22	4673829	
Feb'18	767484	5280290	16.32	5441313	
Mar'18	1092729	7517976	20.98	6534042	
<b>Total</b>	<b>6534042</b>	<b>44954209</b>	<b>10.656</b>		

Billing @Rs 6.88 (PPA with UPCL) RS.	44954209
Billing @Rs 6.25 (PPA with M/s Svarog) Rs.	40837763
UJVNL revenue Rs.	4116446

  
 E.P. (Swarog)  
 UJVNL Limited  
 "UJVNL" SWE Tower  
 Dehradun-248006

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

**Monthwise Generation Record 4.5 MW Grid Connected Canal bank Solar PV in between Dakpathar barrage to Dhakrani HEP.**

Month	Net Generation(KWh)	Billing Amount(in Rs.) @ Rs 7.19	CUF	Avg.CUF	Cumulative	Remark
Apr'17	0	0	0.00		0	Some card of inverter was not working. Intimate to Ingeteam Engineer to rectify the problem
May'17	0	0	0.00		0	Inverter Problem rectify by Ingeteam Engineer and try to start the plant but isolation problem seen in inverter. Inverter fault identified as DC cable was damaged, order placed for DC cables.
June'17	0	0	0.00		0	Receiving the DC cables and are now replacing the fault cables.
July'17	4744	34109	0.14		4744	draining of clogg water started .
Aug'17	16974	122043	0.51		21718	
Sept'17	33628	241785	1.04		55346	
Oct'17	199038	1431083	5.94		254384	
Nov'17	252494	1815432	7.79		506878	
Dec'17	291252	2094102	8.70		798130	
Jan'18	397028	2854631	11.86		1195158	
Feb'18	448522	3224873	14.83		1643680	
Mar'18	585914	4212722	18.08		2229594	
<b>Total</b>	<b>2229594</b>	<b>16030781</b>	<b>5.66</b>			

F 10/1

E.E. (Solar)  
UJVNL Limited  
National GMS Road  
Dehradun, Uttarakhand


  
(Purushottam Singh)  
Director (Operation)  
UJVNL Ltd.  
Dehradun


Billing @Rs 7.19 (PPA with UPCL) RS.	16030781
Billing @Rs 6.54 (PPA with M/s Pochampad) Rs.	14581545
UJVNL revenue Rs.	1449236

**Monthwise Generation Record 1.0 MW Grid Connected Canal Top Solar PV near Dhalipur HEP, Dhalipur.**

Month	Net Generation(KWh)	Billing Amount(in Rs.) @ Rs 7.14	CUF	Cumulative	Remark
Apr'17	0	0	0.00	0	Plant was not generating due to some technical problem. Fault could not traced due maintenance of Canal Power Channel.
May'17	0	0	0.00	0	Due to Inverter problem of 1000 kW, The breaker is not holding, thus the plant not started.
June'17	0	0	0.00	0	Some cards/software of the Inverter is not functioning, the card is sent to Chennai, Delta Company for repair/replacement.
July'17	0	0	0.00	0	The fault card is received from Chennai as on 27th July, but service engineer could not reach to install the card.
Aug'17	0	0	0.00	0	Tried to start the inverter after installing the new card, but breaker did not hold up. Fault occurred in DC Cable. But due to heavy rain fault fault could not identified.
Sept'17	0	0	0.00	0	DC Cable fault identified, it was completely damaged due to rain, so new DC cable is ordered.
Oct'17	32074	229008	4.31	32074	DC Cable received and plant started Generation w.c.f 16-10-2017
Nov'17	23127	165127	3.21	55201	
Dec'17	58202.5	415566	7.82	113403.5	
Jan'18	39752.5	283833	5.34	153156	
Feb'18	70902.5	506244	10.55	224058.5	
Mar'18	112850	805749	15.17	336908.5	
Total	336908.5	2405527	3.85		

Billing @Rs 7.14 (PPA with UPCL) RS.	2405527
Billing @Rs 6.49 (PPA with M/s Svarog) Rs.	2186536
UJVNL revenue Rs.	218991


  
**E.E. (Solar)**  
**UJVNL Limited**  
**"UJWAL" GMS Road**  
**Dehradun-248001**

  
**(Purushottam Singh)**  
**Director (Operation)**  
**UJVNL Ltd.**  
**Dehradun**

**Monthwise Generation Record 500 KW Solar Power Plant , Pathri**

Month	Net Generation(KWh)	Billing Amount(m Rs) @ Rs 9.32/KWh	CUF	Avg.CUF	Cumulative
Apr'17	39702	370023	11.03		39702
May'17	35622	331997	9.58		75324
June'17	33612	313264	9.34		108936
July'17	27054	252143	7.27		135990
Aug'17	10092	94057	2.71		146082
Sept'17	9648	89919	2.68		155730
Oct'17	10824	100880	2.91	5.32	166554
Nov'17	14766	137619	4.1		181320
Dec'17	9492	88465	2.55		190812
Jan'18	8874	82706	2.39		199686
Feb'18	10884	101439	3.24		210570
Mar'18	22602	210651	6.08		233172
<b>Total</b>	<b>233172</b>	<b>Rs. 2173163</b>			

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVN Ltd.  
 Dehradun

  
 E.E. (Solar)  
 UJVN Limited  
 "UJJWAL" GMS Road  
 Dehradun-248001

**TO WHOMSOEVER IT MAY CONCERN**


Based on verification of books of account, invoices and other records of M/s. Svarog Energy Private Limited having its Registered Office at 6-3-862/2, Namrata Estates, Green Lanes, Amberpet, Hyderabad-500016, Telangana We certify that the company has incurred an expenditure of Rs 885.75 Lakhs towards setting up of 1MW Canal Top Solar PV Plant at Dehradun in the state of Uttarakhand. The detailed break up is given below.

Particulars	Amount (Rs.in Lakhs)
Building, Civil Works & Site Development	140.75
Solar PV Modules	100.15
Inverters & Accessories	21.35
Module Mounting Structures	45.45
Balance of Systems	46.45
Evacuation & Switch Yard	3.47
Engineering and Design	3.07
Project Management	10.00
Installation, Testing & Commissioning	2.10
<b>Total</b>	<b>885.75</b>

(Rupees Eight Crore Eighty Nine Lakh Seventy Five Thousand Only)

Note: This certificate is issued at the specific request of the company to submit to UPEDA.

For SATHISH RAMDENI & CO.  
Chartered Accountants  
F.R.N 0152295  
R. SATHISH  
Proprietor  
M.T. 13485

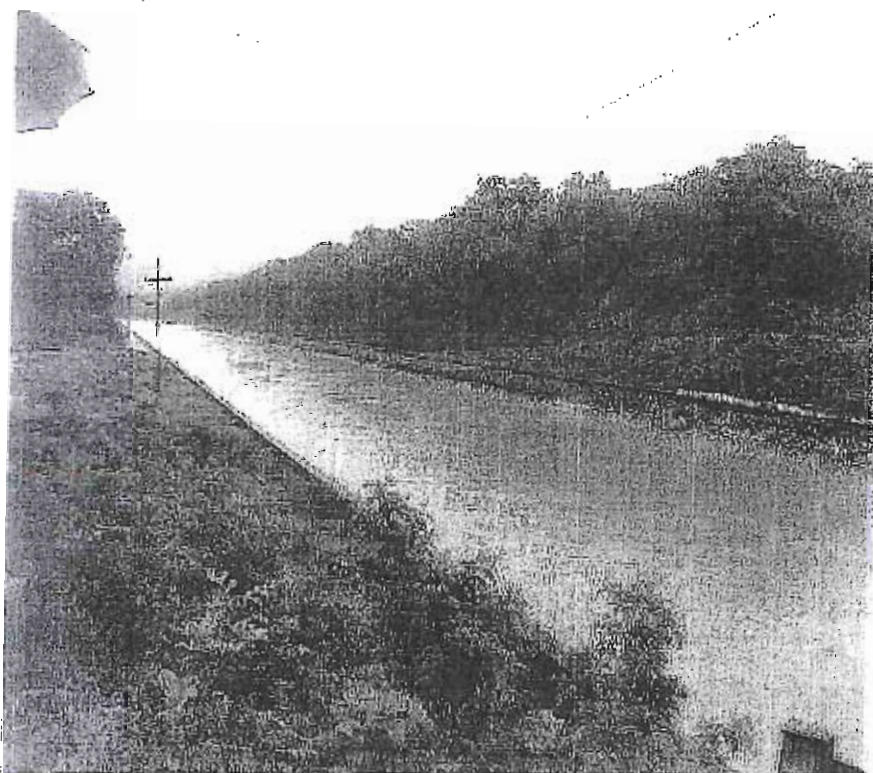
*[Handwritten Signature]*  


Witnessed and signed this 27<sup>th</sup> Day of December, 2017

*[Handwritten Signature]*  
E.E. (Solar)  
UJVN Limited  
"UJJWAL" GMS Road  
Dehradun-248001

*[Handwritten Signature]*  
Director (operation)  
UJVN Ltd.  
Dehradun

**DETAILED PROJECT REPORT**  
**72 MW CANAL BASED SOLAR PV PLANT ON**  
**CHILLA POWER CHANNEL,**  
**Near Rishikesh and Haridwar, Uttarakhand**

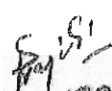


**Prepared For**  
Uttarakhand Jal Vidyut Nigam  
Limited Dehradun, Uttarakhand

**Prepared By**  
Alternate Hydro Energy Centre  
IIT Roorkee

June 2016

  
(Purushottam Singh)  
Director (Operation)  
UJVNL Ltd.  
Dehradun

  
E.S. (Solar)  
UJVNL Limited  
"UJJWAL" GMS Road  
Dehradun - 249001



DETAILED PROJECT REPORT  
72 MW CANAL BASED SOLAR PV PLANT  
ON CHILLA POWER CHANNEL,  
Near Rishikesh and Haridwar, Uttarakhand

**Prepared For**

Uttarakhand Jal Vidyut Nigam Limited  
Dehradun, Uttarakhand

**Prepared By**

Alternate Hydro Energy Centre,  
IIT Roorkee

June 2016

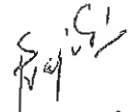
  
(Purushottam Singh)  
Director (operation)  
UJVNL Ltd.  
Dehradun

## 9. FINANCIAL ANALYSIS

Financial analysis has been carried out for 72.85 MW canal based solar power project on power channel of Chilla hydro owned by UJVNL in Sheet-2. According to Excel Sheet 2, The total project cost 745.33 INR Crores (10.60 crores per kW). The project IRR 8.97% and equity IRR 15.72% expected. The main financial indicators are presented in Table 9.1.

**Table 9.1: Financial Indicators**

<b>Project Timeline</b>		
Effective Date	1 Jan 2015	
Effective (years from COD)	25	
End Date	31 Dec 2039	
Project Start Date (Zero Date)	1 Jul 2015	
Construction Period (months)	6	
Commercial Operations Date (COD)	30 Dec 2015	
1st financial year of operations	2016	
Financial Year start date	1 Apr 2015	
Financial Year ending	31 Mar 2016	
No of days of operation in 1st year	93	
No of days of operation from 2nd year	365	
No of hours of operation per day (hrs.)	24	
<b>Revenue</b>		
<b>Tariff</b>		
Tariff Per Unit (kwh)	INR	8.98
Annual Unit Generation(MWh)		134227
Plant Generation Capacity (AC) - MW		72.85
Plant Generation Capacity (DC) - MW		75.11
Plant Load Factor		21.00%
	Years	25
Minimum generation after degradation (for first 10 years)	10	90%
Minimum generation after degradation (11th to 25 years)	15	80%
No. of Hours in a day		24
No. of days in a year		365
No. of days in a year (Leap year)		366
No. of days operational in first year		93
No. of days operational in Last financial year		272
Conversion of MW to Kwh		1000
Conversion of total units to Crore		10000000
Average		2

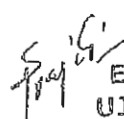
  
 E.E. (Solar)  
 UJVNL Limited  
 "UJJWAL" GMS Road  
 Dehradun-248001

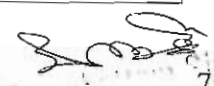
  
 (Purushottam Singh)  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

Project Cost Assumptions		INR Crore
<b>Land</b>		
Land required per MW	Acre	0
Total Land required	Acre	0
Land Cost	INR Crore	0.000
<b>EPC Cost</b>		
EPC Cost	INR Crore	745.33
EPC Cost Per MW	INR Crore	10.23
<b>Hard Cost (Rs. Crore)</b>	INR Crore	731.42
<b>Contingency</b>		
Contingency Expenses	1%	7.31
<b>IDC Charges</b>		
Interest During Construction	INR Crore	0.380
<b>Consultancy Charges</b>		
Consultancy and other financing charges	INR Crore	0.3
<b>Operation and Maintenance Charges</b>		
Operation and Maintenance (For first Year)	INR Crore	5.915
<b>Total Project Cost</b>	INR Crore	745.33

Term Debt Structure	
Loan Disbursement date	1 Jul 2015
Days between COD and Disb. Date	150
Months between COD and Disb. Date	5
Door to Door (years)	15
Repayment	Quarterly
Moratorium (months from COD)	12
No of quarterly Installments	54
Repayment start date	1 Jul 2016
First Repayment Quarter	30 Sep 2016
Last repayment quarter	31 Dec 2029
Interest Rate (p.a.)	12.50%

Project Cost & Means of Finance		INR Crore		
Project Cost including 1 Year O&M Charges		745.33		
Cost per MW (D/C)		9.92		
Cost per MW (A/C)		10.23		
<b>Financing Structure</b>				
<b>MNRE CFA (in terms of Subsidy)</b>				<b>% of total project cost</b>
Subsidy (3 Cr/MW or 30% of Project Cost whichever is lower)	3 Cr./MW)	218.55	2%	29.32%
<b>Project Cost after Subsidy (UJVNL Limited)</b>				
Project Cost to UJVNL		526.78		7.33
Equity		158.03	3%	21.20%
Debt		368.75	7%	49.47%
Total Project Cost (including MNRE CFA)		745.33		

  
 E.E. (Solar)  
 UJVNL Limited  
 "UJJWAL" GMS Road

  
 UJVNL Ltd.  
 Dehradun

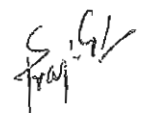
<b>Operational Expenditure</b>		
O&M costs (% of total project cost) - Incl. of spares & consumables		0.80%
Insurance costs (% of net block)		0.10%
Land Lease Cost	INR Crore	0.00
Overhead cost (per MW DC Capacity)	INR Crore	0.010
Escalation		5.00%

<b>Depreciation</b>		
Companies Act (SLM Method)		
Plant & Machinery		5.28%
Income Tax Act (WDV method)		
Plant & Machinery		15.00%

<b>Taxation</b>		
Corporate Tax		
Basic		30.00%
Surcharge		10.00%
Education cess		3.00%
<b>Corporate Tax Rate</b>		33.99%
MAT Tax		
Basic		18.50%
Surcharge		10.00%
Education cess		3.00%
<b>MAT Rate</b>		20.96%
80 IA deduction		
First Year		11
Last Year		15

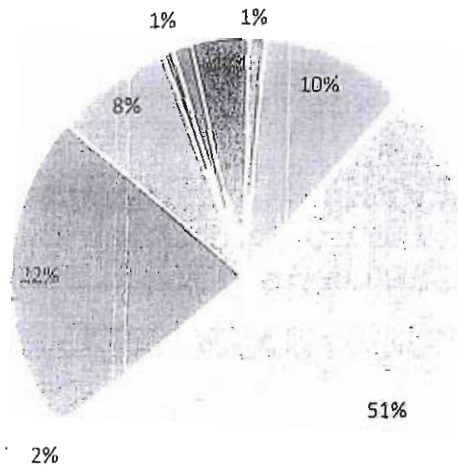
**Table 9.2: EPC Cost Share**

<b>Particular</b>	<b>Cost</b>
Modules	803,67,807
Inverters & Accessories	7337,36,433
Galvanized Iron (GI)	36627,48,268
Cables & Accessories	1273,87,771
Civil Works	15758,00,725
AC BOS	5801,69,686
Control Room	481,98,407
Miscellaneous Equipment	916,17,791
Services (Design, Management & Insurance)	2852,21,342

  
 E.E. (Solar)  
 UJVNL Limited  
 "UJWAL" GMS Road  
 Gohradpur-248001

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVNL Ltd.  
 Gohradpur

EPC cost : % Share



- Modules
- Inverters & Accessories
- Galvanized Iron (GI)
- Civil Works
- AC BOS
- Control Room
- Miscellaneous Equipment

Figure 9.1: EPC Cost Share

*[Signature]*  
E.E. (Solar)  
UJVN Limited  
"UJJWAL" GMS Road  
Dehradun-248001

*[Signature]*  
(Parshotam Singh)  
Director (Operation)  
UJVN Ltd.

# **Annexure-2**

Gross Generation and Design Energy for FY 2019-20 :

Power Station	Chibro	Khodri	Dhakrani	Dhalipur	Kulhal	Tiloth	Dharasu	Chilla	Ramganga	Khatima
Design Energy	692.51	317.78	147.33	177.44	143.32	360.53	1503.71	619.16	273.23	184.77
April	53.00	24.00	6.80	12.00	8.00	20.00	62.00	60.00	21.00	16.00
May	66.00	29.00	7.65	18.00	12.00	32.00	125.00	60.00	27.00	20.00
June	85.00	38.00	10.20	19.00	14.00	35.00	200.00	60.00	26.00	22.00
July	115.00	51.00	21.00	28.00	16.00	25.00	175.00	60.00	0.00	24.00
August	128.00	57.00	21.00	29.00	19.00	8.00	186.00	60.00	0.00	26.00
September	106.00	47.00	20.00	28.00	19.00	38.00	180.00	60.00	0.00	28.00
October	57.00	25.00	14.00	16.15	12.75	40.00	103.00	50.00	4.00	22.00
November	34.00	15.00	7.65	6.80	7.65	30.00	57.00	50.00	5.00	14.00
December	29.00	13.00	5.95	5.10	5.95	16.00	44.00	55.00	26.00	11.00
January	25.00	11.00	5.10	3.40	5.10	9.00	36.00	45.00	28.00	9.00
February	26.00	12.00	5.95	3.40	5.10	8.00	32.00	45.00	22.00	10.00
March	38.00	17.00	6.80	4.25	5.95	14.00	43.00	50.00	36.00	10.00
Total	762.00	339.00	132.10	173.10	130.50	275.00	1243.00	655.00	195.00	212.00

Gross Generation and Design Energy for FY 2020-21 :

Power Station	Chibro	Khodri	Dhakrani	Dhalipur	Kulhal	Tiloth	Dharasu	Chilla	Ramganga	Khatima
Design Energy	692.51	317.78	147.33	177.44	143.32	360.53	1503.71	619.16	273.23	184.77
April	55.00	24.00	6.80	12.00	9.00	23.00	65.00	60.00	22.00	16.00
May	70.00	31.00	7.65	18.00	13.00	34.00	128.00	60.00	28.00	21.00
June	85.00	38.00	10.20	19.00	14.00	37.00	197.00	60.00	26.00	22.00
July	117.00	52.00	21.50	28.00	16.00	28.00	177.00	60.00	0.00	24.00
August	130.00	58.00	21.50	29.00	19.00	10.00	186.00	60.00	0.00	26.00
September	103.00	46.00	20.00	28.00	19.00	40.00	176.00	60.00	0.00	27.00
October	55.00	24.00	14.00	16.15	12.75	42.00	107.00	50.00	5.00	22.00
November	34.00	15.00	7.65	6.80	7.65	30.00	61.00	50.00	6.00	14.00
December	27.00	12.00	5.95	5.10	5.95	16.00	46.00	50.00	30.00	11.00
January	23.00	10.00	5.10	3.40	5.10	9.00	38.00	45.00	33.00	8.00
February	26.00	12.00	5.95	3.40	5.10	8.00	33.00	45.00	25.00	9.00
March	38.00	17.00	6.80	4.25	5.95	14.00	43.00	50.00	35.00	11.00
Total	763.00	339.00	133.10	173.10	132.50	291.00	1257.00	650.00	210.00	211.00

(Purushottam Singh)  
 Director (Operation)  
 UJVNLtd.  
 Dehradun

Gross Generation and Design Energy for FY 2021-22 :

Power Station	Chibro	Khodri	Dhakrani	Dhalipur	Kulhal	Tiloth	Dharasu	Chilla	Ramganga	Khatima
<b>Design Energy</b>	<b>692.51</b>	<b>317.78</b>	<b>147.33</b>	<b>177.44</b>	<b>143.32</b>	<b>360.53</b>	<b>1503.71</b>	<b>619.16</b>	<b>273.23</b>	<b>184.77</b>
April	50.00	23.00	6.80	12.00	9.00	30.00	63.00	40.00	22.00	17.00
May	69.00	30.00	7.65	18.00	14.00	41.00	123.00	40.00	27.00	19.00
June	85.00	38.00	10.20	19.00	14.00	42.00	199.00	40.00	25.00	23.00
July	119.00	53.00	21.50	28.00	17.00	32.00	181.00	50.00	0.00	25.00
August	130.00	59.00	21.50	29.00	19.00	16.00	191.00	50.00	0.00	28.00
September	108.00	48.00	20.50	28.00	19.00	45.00	182.00	40.00	0.00	26.00
October	53.00	24.00	14.50	16.15	12.75	46.00	104.00	40.00	4.00	22.00
November	32.00	14.00	7.65	6.80	7.65	32.00	59.00	40.00	6.00	12.00
December	26.00	12.00	5.95	5.10	5.95	16.00	45.00	40.00	34.00	10.00
January	23.00	10.00	5.10	3.40	5.10	9.00	36.00	40.00	35.00	9.00
February	25.00	11.00	5.95	3.40	5.10	8.00	32.00	40.00	26.00	9.00
March	38.00	17.00	6.80	4.25	5.95	14.00	43.00	40.00	36.00	9.00
<b>Total</b>	<b>758.00</b>	<b>339.00</b>	<b>134.10</b>	<b>173.10</b>	<b>134.50</b>	<b>331.00</b>	<b>1258.00</b>	<b>500.00</b>	<b>215.00</b>	<b>209.00</b>

FY 2021-22

*[Signature]*  
 Director  
 Ujjain  
 Dehradun




# **Annexure-3**

## Scheme-wise details of Capital Expenditure

Name of Plant: Dhakrani


Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.003	0.89	11.46	5.89	0.46	18.69
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.70	3.98	3.44	2.17	-	10.29
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	24.00	20.40	20.40	64.80
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	3.72	2.49	-	-	6.21
		<b>Total</b>	0.70	8.59	41.39	28.45	20.86	99.99

  
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 Director (Operation)  
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 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Dhalipur


Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.00	2.53	13.41	14.16	0.70	30.81
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.06	1.33	1.12	1.68	-	4.20
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	10.04	35.90	35.90	1.93	83.77
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	5.63	3.76	-	-	9.39
		<b>Total</b>	0.07	19.53	54.19	51.75	2.63	128.16

  
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 Director (Operation)  
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 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Kulhal


Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.00	1.17	12.62	2.34	0.41	16.55
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.03	2.93	15.48	3.50	3.50	25.44
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	5.27	23.92	7.12	1.95	38.25
		<b>Total</b>	0.03	9.37	52.03	12.96	5.86	80.24

  
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 Director (Operation)  
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 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Chibro

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.15	12.26	8.69	11.39	6.89	39.38
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.37	15.49	24.48	2.33	1.00	43.68
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	6.84	11.51	2.31	-	20.65
		<b>Total</b>	<b>0.52</b>	<b>34.59</b>	<b>44.68</b>	<b>16.03</b>	<b>7.89</b>	<b>103.71</b>

  
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 Director (Operation)  
 UJVN Ltd.  
 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Khodri

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.07	5.16	1.76	4.74	2.76	14.49
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.14	31.94	8.68	1.17	-	41.92
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	3.42	5.75	1.15	-	10.33
		<b>Total</b>	0.21	40.52	16.19	7.06	2.76	66.74




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Director (Operation)  
UJVNL Ltd.  
Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Chilla

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.01	6.99	14.09	11.14	22.93	55.16
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	1.05	14.94	26.33	8.22	15.00	65.53
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	30.00	30.00	60.00	120.00
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	7.89	19.61	10.22	17.00	54.72
		<b>Total</b>	1.06	29.82	90.02	59.58	114.93	295.41

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVNLtd.  
 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Ramganga

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.02	3.43	0.62	4.90	2.72	11.68
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.32	33.42	18.35	17.56	4.79	74.43
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
		<b>Total</b>	0.34	36.85	18.97	22.46	7.50	86.11


  
 (Purushottam Singh)  
 Director (Operation)  
 UJVN Ltd.  
 Dehradun



## Scheme-wise details of Capital Expenditure

Name of Plant: MB-I


Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	1.78	3.81	28.03	27.73	19.73	81.08
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.11	4.02	4.79	-	-	8.92
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	40.73	67.17	17.75	18.38	144.03
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	9.44	12.44	4.00	-	25.88
		<b>Total</b>	1.90	58.00	112.43	49.48	38.11	259.92

  
**(Purushottam Singh)**  
 Director (Operation)  
 UJVN Ltd.  
 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: MB-II

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	6.01	9.72	19.70	14.81	9.53	59.77
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.67	16.49	26.42	34.54	3.94	82.06
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
		<b>Total</b>	6.68	26.21	46.12	49.35	13.47	141.83

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVN Ltd.  
 Dehradun

## Scheme-wise details of Capital Expenditure

Name of Plant: Khatima

Sr. No	Scheme Details	Regulation Under Which Claimed	FY 2018-19		FY 2019-20	FY 2020-21	FY 2021-22	Total
			Apr-Sep	Oct-Mar				
1	CIVIL	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.00	2.13	11.42	26.02	13.21	52.79
2	E&M	Regulation 22 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	0.07	3.29	16.25	10.07	16.57	46.25
3	RMU	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	11.44	-	-	-	11.44
4	DRIP	Regulation 23 of UERC Tariff Regulations, 2015 for FY 2017-18 & FY 2018-19 & Regulation 22 of UERC Tariff Regulations, 2018 for FY 2019-20 & FY 2021-22	-	-	-	-	-	-
		<b>Total</b>	0.07	16.85	27.68	36.09	29.78	110.48

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

# **Annexure-4**

Design Energy :

Power Station	Chibro	Khodri	Dhakrani	Dhalipur	Kulhal	Tiloth	Dharasu	Chilla	Ramganga	Khatima
April	33.76	15.79	7.07	8.16	7.72	24.98	102.10	26.71	45.49	9.34
May	51.80	23.89	10.48	12.34	10.50	41.36	99.11	48.84	20.27	14.87
June	59.42	28.08	12.78	15.40	12.84	56.68	201.80	71.02	3.19	15.14
July	79.19	36.17	18.39	22.79	17.93	23.87	214.90	85.71	0.00	22.50
August	134.44	58.95	29.49	35.47	24.44	0.00	214.90	86.82	0.00	23.04
September	87.28	39.92	23.69	29.94	22.19	46.23	207.90	88.42	0.00	23.67
October	48.30	21.92	15.05	18.36	15.22	51.92	140.50	70.82	-1.32	20.42
November	26.22	12.26	8.26	9.81	8.97	28.25	76.37	39.97	7.38	13.70
December	27.64	13.02	6.59	7.47	7.70	22.98	66.13	26.83	27.05	9.61
January	27.10	12.76	2.07	2.20	2.86	19.71	57.98	19.80	82.89	9.37
February	41.13	19.85	0.00	0.00	0.00	17.31	46.32	24.56	28.15	10.57
March	76.23	35.17	13.47	15.50	12.96	27.24	75.70	29.64	60.13	12.53
<b>Total</b>	<b>692.51</b>	<b>317.78</b>	<b>147.33</b>	<b>177.44</b>	<b>143.32</b>	<b>360.53</b>	<b>1503.71</b>	<b>619.16</b>	<b>273.23</b>	<b>184.77</b>

  
 (Purushottam Singh)  
 Director (Operation)  
 UJVN Ltd.  
 Dehradun

**Generation Data of Chibro Power Station (MU)**

Month Year	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	51.055	69.331	107.280	132.364	122.127	105.678	87.571	48.779	37.228	30.011	23.070	23.190	370.235
2009-10	30.221	45.948	48.396	90.588	86.175	90.668	54.876	36.054	27.916	23.857	23.563	29.629	272.064
2010-11	34.585	49.253	60.956	112.121	110.105	95.083	113.415	62.124	44.380	38.430	33.559	41.678	417.424
2011-12	49.209	84.246	92.535	127.271	108.424	127.267	75.026	46.103	34.753	32.832	29.799	41.507	393.475
2012-13	49.452	65.757	77.767	98.452	129.521	126.412	65.568	39.579	31.653	29.426	72.508	86.238	440.180
2013-14	76.702	91.954	103.228	112.733	120.318	126.839	89.370	49.579	37.207	33.147	39.066	69.642	486.667
2014-15	76.489	90.635	100.677	112.120	123.958	102.124	51.783	34.592	30.985	27.627	33.582	86.868	432.561
2015-16	82.656	103.171	91.812	128.172	129.971	87.504	51.795	34.553	30.176	24.494	23.350	27.136	377.331
2016-17	38.446	60.156	73.250	116.640	126.200	98.875	54.215	34.444	27.108	27.814	24.843	31.637	298.662
2017-18	60.245	60.319	77.217	120.727	127.935	115.470	74.516	40.721	33.431	26.679	22.588	25.194	343.694
<b>Total</b>	<b>549.061</b>	<b>720.770</b>					<b>718.134</b>	<b>426.528</b>	<b>334.836</b>	<b>294.317</b>	<b>325.928</b>	<b>462.720</b>	<b>3832.293</b>
<b>Average</b>	<b>54.906</b>	<b>72.077</b>					<b>71.813</b>	<b>42.653</b>	<b>33.484</b>	<b>29.432</b>	<b>32.593</b>	<b>46.272</b>	<b>383.229</b>
<b>15% of Average</b>	<b>8.236</b>	<b>10.812</b>					<b>10.772</b>	<b>6.398</b>	<b>5.023</b>	<b>4.415</b>	<b>4.889</b>	<b>6.941</b>	<b>57.484</b>
Design Energy	42	63	59	79	134	87	59	33	33	32	46	83	750
Revised Designed Energy	34	52	59	79	134	87	48	26	28	27	41	76	693

*(Signature)*  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

*(Signature)*  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

**Generation Data of Khodri Power Station (MU)**

Month Year	Lean Discharge Period												Total Lean Period
	April	May	June	July	August	September	October	November	December	January	February	March	
2008-09	23.624	32.115	46.948	56.824	54.047	47.692	40.782	23.177	17.673	14.371	11.353	11.374	174.469
2009-10	14.633	22.134	23.568	41.961	40.318	40.911	26.111	16.998	13.130	11.222	10.853	14.049	129.130
2010-11	16.133	22.955	28.311	48.897	47.479	41.475	51.161	29.520	20.969	18.576	16.167	20.125	195.606
2011-12	23.472	39.306	42.562	55.232	47.010	55.119	34.338	21.106	16.107	15.343	14.112	19.167	182.951
2012-13	23.386	31.102	36.362	45.046	54.231	55.324	31.633	18.911	14.984	13.976	32.213	40.677	206.882
2013-14	36.567	42.450	45.975	50.552	53.437	56.066	41.717	23.409	17.594	16.234	18.928	32.859	229.758
2014-15	35.705	41.685	46.854	50.554	55.768	46.988	25.569	17.020	15.447	13.916	16.641	40.720	206.703
2015-16	39.352	47.330	42.776	55.485	56.185	40.287	25.597	17.038	14.786	11.949	11.664	13.874	181.591
2016-17	18.654	28.791	34.190	52.003	55.629	45.354	26.185	17.077	13.492	13.836	12.590	15.471	146.096
2017-18	28.292	27.996	35.000	52.015	55.579	51.698	35.351	19.410	15.507	12.585	10.550	11.666	161.357
<b>Total</b>	<b>259.819</b>	<b>335.865</b>					<b>338.445</b>	<b>203.664</b>	<b>159.690</b>	<b>142.007</b>	<b>155.073</b>	<b>219.982</b>	<b>1814.544</b>
<b>Average</b>	<b>25.982</b>	<b>33.586</b>					<b>33.845</b>	<b>20.366</b>	<b>15.969</b>	<b>14.201</b>	<b>15.507</b>	<b>21.998</b>	<b>181.454</b>
<b>15% of Average</b>	<b>3.897</b>	<b>5.038</b>					<b>5.077</b>	<b>3.055</b>	<b>2.395</b>	<b>2.130</b>	<b>2.326</b>	<b>3.300</b>	<b>27.218</b>
<b>Design Energy</b>	<b>20</b>	<b>29</b>	<b>28</b>	<b>36</b>	<b>59</b>	<b>40</b>	<b>27</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>22</b>	<b>38</b>	<b>345</b>
<b>Revised Design Energy</b>	<b>16</b>	<b>24</b>	<b>28</b>	<b>36</b>	<b>59</b>	<b>40</b>	<b>22</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>20</b>	<b>35</b>	<b>318</b>

  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

**Generation Data of Dhakrani Power Station (MU)**

Month Year	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	9.380	12.581	18.601	20.351	19.230	18.828	16.819	9.998	7.581	5.360	4.203	3.594	69.516
2009-10	5.261	7.602	8.074	15.620	16.647	16.514	10.034	7.279	4.767	4.065	4.140	5.082	48.230
2010-11	5.796	8.273	10.678	18.950	19.484	13.810	20.670	13.441	9.435	7.983	6.509	7.991	80.098
2011-12	9.172	15.382	16.973	20.615	17.262	20.784	15.794	9.879	7.272	6.480	5.541	7.601	77.121
2012-13	8.669	11.271	13.155	16.090	19.891	20.704	13.795	7.496	5.732	5.230	11.129	15.534	78.856
2013-14	13.815	15.183	16.493	20.733	18.814	21.185	18.335	10.230	7.714	6.789	7.793	13.558	93.416
2014-15	13.714	14.783	17.832	19.827	19.197	15.321	10.292	6.993	5.849	5.528	6.523	13.656	77.338
2015-16	14.675	17.739	15.394	19.608	19.818	16.716	8.672	6.732	5.588	4.281	3.940	4.217	65.843
2016-17	6.097	9.555	12.835	17.048	19.328	18.713	10.982	6.978	5.558	5.309	4.610	3.189	52.279
2017-18	1.661	10.479	13.695	18.731	21.048	21.255	14.194	8.132	6.811	4.982	4.290	4.422	54.972
<b>Total</b>	<b>88.239</b>	<b>122.848</b>					<b>139.587</b>	<b>87.158</b>	<b>66.307</b>	<b>56.007</b>	<b>58.678</b>	<b>78.844</b>	<b>697.668</b>
<b>Average</b>	<b>8.824</b>	<b>12.285</b>					<b>13.959</b>	<b>8.716</b>	<b>6.631</b>	<b>5.601</b>	<b>5.868</b>	<b>7.884</b>	<b>69.767</b>
<b>15% of Average</b>	<b>1.324</b>	<b>1.843</b>					<b>2.094</b>	<b>1.307</b>	<b>0.995</b>	<b>0.840</b>	<b>0.880</b>	<b>1.183</b>	<b>10.465</b>
Design Energy	8	12	13	18	29	24	17	10	8	3	0	15	157
Revised Designed Energy	7	10	13	18	29	24	15	8	7	2	0	13	147



Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

Director (Operation)  
 UJVNL Ltd.  
 Dehradun



**Generation Data of Dhalipur Power Station (MU)**

Month Year	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	13.880	19.302	28.730	31.525	29.648	28.623	25.492	15.090	11.369	8.564	6.646	5.569	105.912
2009-10	7.624	11.542	12.403	23.527	25.243	25.351	15.238	10.804	8.002	6.454	6.556	7.403	73.623
2010-11	8.481	12.324	15.698	27.785	27.089	20.851	31.395	19.718	13.871	11.931	9.987	11.708	119.415
2011-12	13.663	23.040	25.856	30.951	25.464	31.339	24.246	14.725	10.572	9.765	8.346	11.614	115.971
2012-13	13.799	17.554	20.414	25.339	29.598	31.030	21.996	11.608	8.980	7.916	17.018	25.559	124.430
2013-14	21.524	24.995	27.976	28.907	21.601	32.175	28.355	15.603	11.503	10.048	12.096	20.382	144.506
2014-15	20.537	23.900	27.147	30.235	29.002	26.606	15.804	10.770	9.279	8.414	9.361	20.166	118.231
2015-16	22.333	24.629	21.592	29.831	29.404	25.105	12.474	9.560	8.260	6.381	6.029	6.641	96.307
2016-17	9.599	14.217	19.671	26.233	28.166	27.841	16.913	10.317	7.946	8.097	6.630	4.862	78.581
2017-18	1.901	15.785	18.156	24.097	30.456	32.132	22.715	12.460	9.909	7.026	5.834	6.297	81.927
<b>Total</b>	<b>133.341</b>	<b>187.288</b>					<b>214.628</b>	<b>130.655</b>	<b>99.691</b>	<b>84.596</b>	<b>88.503</b>	<b>120.201</b>	<b>1058.903</b>
<b>Average</b>	<b>13.334</b>	<b>18.729</b>					<b>21.463</b>	<b>13.066</b>	<b>9.969</b>	<b>8.460</b>	<b>8.850</b>	<b>12.020</b>	<b>105.890</b>
<b>15% of Average</b>	<b>2.000</b>	<b>2.809</b>					<b>3.219</b>	<b>1.960</b>	<b>1.495</b>	<b>1.269</b>	<b>1.328</b>	<b>1.803</b>	<b>15.884</b>
Design Energy	10	15	15	23	35	30	22	12	9	3	0	17	192
Revised Designed Energy	8	12	15	23	35	30	18	10	7	2	0	15	177

*[Handwritten Signature]*

Director (Operation)  
UJVNL Ltd.  
Dehradun

*[Handwritten Signature]*  
Dy. General Manager (Tech.)  
UJVNL Limited  
"Ujjwala" Maharani Bagh,  
G.M.S. Road, Dehradun

**Generation Data of Kulhal Power Station (MU)**

Month Year	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	9.777	12.622	14.495	14.923	18.249	18.866	17.043	11.037	8.811	6.922	5.681	5.250	77.143
2009-10	6.160	8.654	8.803	14.632	16.481	16.492	10.872	8.295	6.242	5.198	5.074	5.719	56.214
2010-11	6.381	8.537	10.666	17.357	13.613	12.800	21.275	14.706	10.811	9.597	7.939	8.845	88.091
2011-12	9.835	14.883	16.617	18.695	16.167	20.028	17.393	11.316	8.615	8.055	7.207	9.019	86.323
2012-13	9.959	11.912	13.029	15.949	18.018	19.398	15.739	9.332	7.613	7.178	12.860	17.165	91.758
2013-14	14.405	16.034	14.150	20.046	19.110	20.524	19.366	12.152	9.999	8.817	9.340	14.574	104.689
2014-15	14.477	15.732	17.317	18.808	18.260	17.196	10.943	7.791	7.533	6.887	7.279	13.890	84.531
2015-16	15.676	16.408	14.924	18.853	19.228	15.909	9.345	7.558	6.474	5.083	4.859	5.077	70.479
2016-17	6.255	9.771	12.227	16.913	18.537	17.879	11.189	7.577	6.002	6.752	5.355	3.853	56.753
2017-18	1.338	10.869	12.052	12.409	19.267	19.858	15.208	9.335	8.151	5.263	5.122	5.336	60.620
<b>Total</b>	<b>94.262</b>	<b>125.421</b>					<b>148.373</b>	<b>99.099</b>	<b>80.251</b>	<b>69.752</b>	<b>70.715</b>	<b>88.728</b>	<b>776.601</b>
<b>Average</b>	<b>9.426</b>	<b>12.542</b>					<b>14.837</b>	<b>9.910</b>	<b>8.025</b>	<b>6.975</b>	<b>7.071</b>	<b>8.873</b>	<b>77.660</b>
<b>15% of Average</b>	<b>1.414</b>	<b>1.881</b>					<b>2.226</b>	<b>1.486</b>	<b>1.204</b>	<b>1.046</b>	<b>1.061</b>	<b>1.331</b>	<b>11.649</b>
Design Energy	9	12	13	18	24	22	17	10	9	4	0	14	154
Revised Designed Energy	8	10	13	18	24	22	15	9	8	3	0	13	143



Director (Generation)  
UJVNL Ltd.  
Dehradun

Dy. General Manager (Tech.)  
UJVNL Limited  
"Ujjwal", Maharani Bagh,  
G.M.S. Road, Dehradun

**Generation Data of Tiloth Power Station (MU)**

Month ▶ Year ▼	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	37.812	59.780	41.984	18.824	0.000	34.320	60.908	42.172	33.844	27.372	22.236	24.552	308.676
2009-10	30.492	55.912	59.732	55.608	4.616	48.160	54.564	36.188	28.992	23.672	20.960	30.180	280.960
2010-11	41.364	61.190	63.314	42.928	3.368	49.424	66.540	50.920	38.320	30.868	25.424	30.748	345.374
2011-12	39.656	67.088	62.680	60.420	37.544	41.040	58.376	44.200	34.264	28.540	24.060	18.244	314.428
2012-13	40.700	59.216	64.540	52.780	2.060	49.884	45.360	39.972	31.442	26.376	25.578	17.056	285.700
2013-14	24.244	61.664	25.872	0.000	48.420	51.640	48.028	32.400	27.880	24.872	19.016	18.148	256.252
2014-15	29.184	58.008	62.452	45.376	3.900	51.548	32.156	22.248	0.896	17.880	22.784	34.116	217.272
2015-16	52.568	66.400	59.328	52.480	20.872	45.060	54.604	36.916	29.580	23.952	20.332	22.240	306.592
2016-17	26.392	42.420	47.704	16.155	4.064	29.172	57.658	36.824	27.474	20.656	20.072	21.040	252.536
2017-18	33.972	41.844	41.028	12.452	20.440	60.794	61.000	38.224	28.308	21.732	16.688	18.264	260.032
<b>Total</b>	<b>356.384</b>	<b>573.522</b>						<b>380.064</b>	<b>281.000</b>	<b>245.920</b>	<b>217.150</b>	<b>234.588</b>	<b>2288.628</b>
<b>Average</b>	<b>35.638</b>	<b>57.352</b>						<b>38.006</b>	<b>28.100</b>	<b>24.592</b>	<b>21.715</b>	<b>23.459</b>	<b>228.863</b>
<b>15% of Average</b>	<b>5.346</b>	<b>8.603</b>						<b>5.701</b>	<b>4.215</b>	<b>3.689</b>	<b>3.257</b>	<b>3.519</b>	<b>34.329</b>
<b>Design Energy</b>	<b>30</b>	<b>50</b>	<b>57</b>	<b>24</b>	<b>0</b>	<b>46</b>	<b>52</b>	<b>34</b>	<b>27</b>	<b>23</b>	<b>21</b>	<b>31</b>	<b>395</b>
<b>Revised Designed Energy</b>	<b>25</b>	<b>41</b>	<b>57</b>	<b>24</b>	<b>0</b>	<b>46</b>	<b>52</b>	<b>28</b>	<b>23</b>	<b>20</b>	<b>17</b>	<b>27</b>	<b>361</b>

*(Signature)*  
 Director (Operation)  
 UJVNL Ltd.  
 Dehradun

*(Signature)*  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

Generation Data of Dharasu Power Station (MU)													
Month Year	Lean Discharge Period					Lean Discharge Period					Total Lean Period		
	April	May	June	July	August	September	October	November	December	January		February	March
2008-09	75.081	144.220	163.850	135.250	2.800	129.000	125.570	78.220	60.020	49.890	38.020	43.030	614.051
2009-10	55.670	129.100	176.500	168.770	141.330	160.970	115.340	62.240	46.980	43.430	39.720	57.990	550.470
2010-11	78.240	133.580	175.890	174.680	156.490	155.680	163.830	88.290	61.970	50.260	42.580	54.470	673.220
2011-12	78.180	164.960	168.920	192.160	157.750	176.730	134.090	73.300	54.120	49.890	43.810	57.240	655.590
2012-13	78.010	131.990	175.620	173.230	95.970	160.690	95.800	56.570	45.920	38.860	40.900	60.090	548.140
2013-14	78.730	109.630	67.230	78.687	125.540	125.910	69.290	44.100	49.900	36.240	35.600	12.230	435.720
2014-15	0.000	0.000	86.830	170.260	169.110	190.480	106.640	60.780	45.500	36.500	22.000	0.000	271.420
2015-16	0.000	122.320	185.130	187.570	197.160	191.090	113.200	67.770	54.160	43.018	36.340	23.419	460.227
2016-17	59.431	152.442	206.450	167.187	188.568	191.850	99.806	46.070	35.960	31.740	29.550	42.900	497.899
2017-18	89.780	150.760	190.970	165.970	169.050	159.240	115.142	64.940	50.185	41.772	36.881	41.894	591.354
Total	593.122	1239.002						642.280	504.715	421.600	365.401	393.263	4159.383
Average	59.312	123.900						64.228	50.472	42.160	36.540	39.326	415.938
15% of Average	8.897	18.585						9.634	7.571	6.324	5.481	5.899	62.391
Design Energy	111	118	202	215	215	208	141	86	74	64	52	82	1566
Revised Designed Energy	102	99	202	215	215	208	141	76	66	58	46	76	1504

  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

  
 Director (Operations)  
 UJVNL Ltd.  
 Dehradun

Generation Data of Chilla Power Station (MU)

Month Year	Lean Discharge Period												Total
	April	May	June	July	August	September	October	November	December	January	February	March	
2008-09	49.836	65.921	65.985	71.039	96.127	86.873	73.610	54.231	53.539	59.135	48.703	51.591	340.809
2009-10	54.571	65.859	60.405	87.896	79.578	64.686	55.737	49.480	49.497	57.347	53.236	61.198	326.495
2010-11	57.831	61.372	75.108	85.969	83.404	61.427	89.388	63.759	43.521	28.370	56.189	68.811	350.038
2011-12	79.480	95.544	90.442	90.677	80.844	89.921	87.457	59.201	56.247	61.453	57.864	60.959	383.181
2012-13	61.983	74.311	81.983	87.540	86.852	81.088	78.860	55.483	62.199	63.080	58.381	67.213	385.216
2013-14	61.123	65.744	68.504	71.761	84.177	82.516	85.665	62.046	58.980	55.848	38.514	49.733	350.786
2014-15	58.509	63.699	76.441	78.565	69.143	86.302	74.029	57.781	58.740	61.604	53.412	62.063	367.629
2015-16	61.953	72.948	81.665	86.526	78.878	75.250	74.705	30.446	24.460	59.279	55.107	53.580	297.577
2016-17	45.665	59.292	80.461	78.459	92.521	67.067	63.895	57.396	57.835	58.329	48.503	59.313	345.271
2017-18	65.641	69.107	84.186	87.198	86.769	90.484	83.273	62.893	59.224	49.346	22.489	51.327	328.552
						<b>Total</b>	<b>766.619</b>	<b>552.716</b>	<b>524.242</b>	<b>553.791</b>	<b>492.398</b>	<b>585.788</b>	<b>3475.554</b>
						<b>Average</b>	<b>76.662</b>	<b>55.272</b>	<b>52.424</b>	<b>55.379</b>	<b>49.240</b>	<b>58.579</b>	<b>347.555</b>
						<b>15% of Average</b>	<b>11.499</b>	<b>8.291</b>	<b>7.864</b>	<b>8.307</b>	<b>7.386</b>	<b>8.787</b>	<b>52.133</b>
Design Energy	27	49	71	86	87	88	82	48	35	28	32	38	671
Revised Designed Energy	27	49	71	86	87	88	71	40	27	20	25	30	619

Dy. General Manager (Tech.)  
UJVNL Limited  
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G.M.S. Road, Dehradun

Director (Administration)  
UJVNL Ltd.  
Dehradun

Generation Data of Ramganga Power Station (MU)


Month Year	Lean Discharge Period												Total Lean Period
	April	May	June	July	August	September	October	November	December	January	February	March	
2008-09	67.697	44.939	2.240	0.000	0.000	0.000	2.190	1.597	38.721	70.332	64.645	33.120	325.481
2009-10	17.319	31.829	40.642	6.313	0.000	0.000	2.006	0.193	23.091	26.153	6.921	19.823	174.290
2010-11	17.597	4.074	4.819	0.000	0.000	0.000	16.054	12.122	30.390	89.892	65.005	85.666	325.619
2011-12	28.992	19.771	47.367	0.000	37.388	32.399	2.262	3.151	40.467	45.231	78.949	80.447	416.424
2012-13	24.621	56.728	31.107	10.564	0.000	0.000	0.000	4.428	42.520	23.557	0.000	53.056	246.581
2013-14	14.921	21.551	7.382	0.000	70.558	9.665	0.000	4.836	60.215	16.001	14.934	13.435	233.498
2014-15	0.000	65.303	24.392	39.250	0.000	0.000	3.522	5.014	15.574	48.370	54.326	9.920	265.671
2015-16	0.000	9.000	19.408	58.854	92.092	47.895	58.295	0.980	21.664	74.765	67.632	52.737	503.322
2016-17	6.639	17.999	0.000	0.000	0.000	0.000	1.883	0.000	32.814	63.848	31.557	26.511	181.251
2017-18	32.080	15.342	0.000	0.000	0.000	0.000	2.000	1.772	43.713	75.618	52.952	26.071	249.548
<b>Total</b>	<b>209.866</b>	<b>286.536</b>	<b>177.357</b>	<b>114.981</b>	<b>200.038</b>	<b>89.959</b>	<b>88.212</b>	<b>34.093</b>	<b>349.169</b>	<b>533.767</b>	<b>436.921</b>	<b>400.786</b>	<b>2921.685</b>
<b>Average</b>	<b>20.987</b>	<b>28.654</b>	<b>17.736</b>	<b>11.498</b>	<b>20.004</b>	<b>8.996</b>	<b>8.821</b>	<b>3.409</b>	<b>34.917</b>	<b>53.377</b>	<b>43.692</b>	<b>40.079</b>	<b>292.169</b>
<b>15% of Average</b>	<b>3.15</b>	<b>4.30</b>	<b>2.66</b>	<b>1.72</b>	<b>3.00</b>	<b>1.35</b>	<b>1.32</b>	<b>0.51</b>	<b>5.24</b>	<b>8.01</b>	<b>6.55</b>	<b>6.01</b>	<b>43.83</b>
<b>Design Energy</b>	<b>48.64</b>	<b>24.57</b>	<b>5.85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7.89</b>	<b>32.29</b>	<b>90.9</b>	<b>34.7</b>	<b>66.14</b>	<b>310.98</b>
<b>Revised Design Energy</b>	<b>45</b>	<b>20</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-1</b>	<b>7</b>	<b>27</b>	<b>83</b>	<b>28</b>	<b>60</b>	<b>273</b>


  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
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 G.M.S. Road, Dehradun

  
 Director (Operation)  
 UJVNL Ltd  
 Dehradun

**Generation Data of Khatima Power Station (MU)**

Month Year	Lean Discharge Period												Total Lean Period
	April	May	June	July	August	September	October	November	December	January	February	March	
2008-09	9.612	13.759	16.380	16.374	14.756	11.071	15.840	10.230	10.346	9.020	6.722	6.542	58.700
2009-10	8.353	12.056	13.957	17.672	17.002	19.044	9.459	9.457	12.865	11.699	9.342	10.104	62.926
2010-11	11.605	14.500	15.606	17.855	17.600	16.206	15.862	8.610	8.781	10.932	8.722	9.664	62.571
2011-12	10.100	16.900	20.107	19.695	19.200	20.545	12.865	6.521	10.369	11.121	8.156	8.423	57.455
2012-13	10.501	14.225	17.953	20.419	15.172	13.583	15.124	10.743	9.718	10.178	7.935	10.063	63.761
2013-14	10.878	13.836	11.986	11.518	13.786	13.586	10.540	0.528	7.756	7.317	5.974	7.062	39.177
2014-15	6.942	9.590	10.363	7.580	10.697	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2015-16	5.309	10.708	13.286	11.928	13.697	8.851	10.217	4.793	10.673	10.872	9.899	10.355	56.809
2016-17	10.001	16.326	17.683	17.070	20.425	24.215	11.678	8.858	16.122	14.520	10.943	11.975	74.096
2017-18	16.252	20.549	21.080	20.704	24.566	28.333	25.746	6.041	14.265	14.082	10.513	10.647	81.294
						<b>Total</b>	<b>127.331</b>	<b>65.781</b>	<b>100.895</b>	<b>99.741</b>	<b>78.206</b>	<b>84.835</b>	<b>556.789</b>
						<b>Average</b>	<b>14.148</b>	<b>7.309</b>	<b>11.211</b>	<b>11.082</b>	<b>8.690</b>	<b>9.426</b>	<b>61.865</b>
						<b>15% of Average</b>	<b>2.122</b>	<b>1.096</b>	<b>1.682</b>	<b>1.662</b>	<b>1.303</b>	<b>1.414</b>	<b>9.280</b>
Design Energy	9	15	15	23	23	24	23	15	11	11	12	14	194
Revised Designed Energy	9	15	15	23	23	24	20	14	10	9	11	13	184.77

  
 Dy. General Manager (Tech.)  
 UJVNL Limited  
 "Ujjwal", Maharani Bagh,  
 G.M.S. Road, Dehradun

  
 Director (Generation)  
 UJVNL Ltd.  
 Dehradun