



यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

UJVN LIMITED

(A Govt. of Uttarakhand Enterprise)

कार्यालय निदेशक (परिचालन), "उज्ज्वल", महारानी बाग, जी०एम०एस० रोड, देहरादून - 248 006 (उत्तराखण्ड), दूरभाष: 0135-2761484, फ़ैक्स: 0135-2763506
Office of the Director (Operations), "UJJWAL", Maharani Bagh, G.M.S. Road, Dehradun - 248 006 (Uttarakhand), Phone: 0135-2761484, Fax: 0135-2763506
CIN No. 40101UR2001SGC025866 ISO 9001:2008 Certified

No. 78 /UJVNL/02/D(O)/B.B

Dated: २५ January, 2019

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

Subject: Petitions for True up of Tariff for FY 2017-18, Annual Performance Review for FY 2018-19 & Multi Year Tariff for FY 2019-20 to FY 2021-22 for 10 LHPs of UJVN Ltd.

Sir,

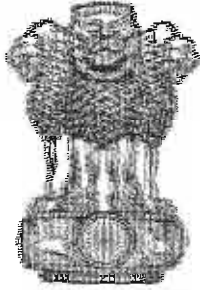
Please find enclosed herewith Reply under affidavit for balance information against the Hon'ble UERC's letter no. - UERC/6/TF/508/2018-19/1392 dated 09/01/2019 on the captioned subject matter for kind consideration of the Hon'ble Commission please.

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

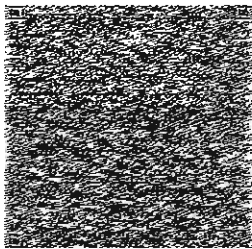


सत्यमेव जयते

INDIA NON JUDICIAL Government of Uttarakhand

e-Stamp

Certificate No.	IN-UKS47403290144560
Certificate Issued Date	11-Dec-2018 12:58 PM
Account Reference	NONJDC (SV) UK1233804/ DEHRADUN/ UK-DH
Unique Doc. Reference	SUBIN-UKUK1233804/106374039290
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)



Handwritten signature

शंकर रंजन, सापनेपूर
स्टाम्प विक्रेता
कोर्ट परिसर देहरादून

BEFORE THE HON'BLE UTTARAKHAND ELECTRICITY REGULATORY COMMISSION

In the matter of:

Filing of reply in respect of TVS held on dated 08.01.2019 and Minutes of Meeting provided by the Hon'ble UERC vide its letter dated 09.01.2019 pertaining to the Petitions filed by UJVN Ltd for true up for the FY 2017-18, APR for FY 2018-19 and Annual Fixed Charges for FY 2019-20 to FY 2021-22 for 10 LHPs & Business Plan of UJVN Ltd.

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.



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

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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 TVS held on dated 08.01.2019 and Minutes of Meeting provided by the Hon'ble UERC vide its letter dated 09.01.2019 pertaining to the Petitions filed by UJVN Ltd for true up for the FY 2017-18, APR for FY 2018-19 and Annual Fixed Charges for FY 2019-20 to FY 2021-22 for 10 LHPs & Business Plan of UJVN Ltd 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.


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

I, V.S. Chauhan Advocate, D. D. Sin, 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 23rd day of Jan 2019 at 12-24 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 TVS held on dated 08.01.2019 and Minutes of Meeting provided by the Hon'ble UERC vide its letter dated 09.01.2019 pertaining to the Petitions filed by UJVN Ltd for true up for the FY 2017-18, APR for FY 2018-19 and Annual Fixed Charges for FY 2019-20 to FY 2021-22 for 10 LHPs & Business Plan of UJVN Ltd 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)
Director (Operation)
UJVN Ltd.
Dehradun



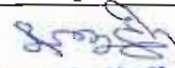
This affidavit is sworn before me by
Shri ... Purushottam Singh ...
who is identified by Shri ... V.S. Chauhan ...
at Dehradun on ... 22/01/2019 ... Adv
P.D.M.


N.S. NEGI
Advocate & Notary, J. Dun
22/01/2019

REPLY TO THE HON'BLE UERC'S LETTER NO. UERC/6/TF/509/2018-19/1392 DATED 09.01.2019

The point wise reply in respect of information desired by the Hon'ble UERC is submitted as under:-

Point No. 1	:-	As regard to the allocation of common expenses towards solar business, it is respectfully submitted as follows: -			
		S. No.	Description	Amount	Unit
		1	Total sales from the export of energy in FY 2017-18 for all LHPs & SHPs of UJVN Ltd	586.78	Crore
		2	Net Revenue Earned by UJVN Ltd in FY 2017-18 from sale of solar power produced by solar developer	1.76	Crore
		3	Total revenue earned by UJVN Ltd from sales of energy in FY 2017-18 (S. No. 1+2)	588.54	Crore
		4	Total common expenses in FY 2017-18 (Common expenses for FY 2017-18 as per audited account for CSPPO, Head Office and Central Accounts are Rs. 48.51 Crore, Rs. 42.80 Crore and Rs. 37.31 Crore respectively)	128.63	Crore
		5	Percentage (%) of common expenses to total sales UJVN Ltd (amount in S. No. 4/amount in S. No. 3)	21.86%	
		6	*Proposed percentage (%) of common expenses to Revenue earned by UJVN Ltd from Solar Business of UJVN Ltd (20% of S. No. 5)	4.37%	
		7	Common Expenses to be allocated towards Solar Business (S. No. 6 x S. No. 2)	7.69	Lakh
		*As the solar activities are totally managed by Solar Power Developers, it is submitted that the allocation of common expenses to Revenue earned by UJVN Ltd from Solar Business in FY 2017-18 from sale of solar power is proposed			


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

		<p>to be taken 20% of LHPs and SHPs.</p> <p>As tariff of solar Plants are levellised, the revenue earned would remain almost same for 25 Years. Therefore, UJVN Ltd proposes to allocate 4.37% of Net Revenue Earned by UJVN Ltd in FY 2017-18 from sale of solar power produced by solar developer.</p> <p>Based upon above, it is therefore requested that Common Expense towards Solar Business may kindly be allocated @ 4.37% of 1.76 Crore (Net Revenue Earned by UJVN Ltd in FY 2017-18 from sale of solar power produced by solar developers) i.e. Rs. 7.69 Lakh.</p> <p>Further, it is respectfully prayed that after above allocation of Common Expenses for Solar component, balance common expenses may be allocated among LHPs and SHPs as per prevailing practice of UJVN Ltd.</p>
Point No. 3	:-	It is respectfully submitted that the information for Dhalipur is enclosed herewith at Annexure for Point no. 3.
Point No. 4	:-	It is respectfully submitted that the discharge data for Dakpathar Barrage & Ichari Dam is enclosed herewith at Annexure for Point no.4 in hard copy while discharge data for Pashulok Barrage is being provided in soft copy please.
Point No. 6	:-	It is respectfully submitted that the information regarding RoE is enclosed herewith at Annexure for Point no.6.
Point No. 10	:-	<p>It is respectfully submitted that the revised cost of the project of Vyasi HEP is being put before the Board of Directors, UJVN Ltd for approval. The same shall be submitted with the Hon'ble Commission after approval from the BoD, UJVN Ltd.</p> <p>Further, it is also to submit that the Design Energy for Vyasi LHP is not proposed to be revised.</p>


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

Point No. 12	:-	<p>As regard to Directives of the Hon'ble Commission, it is respectfully submitted as follows:</p> <p>1. Schedule of Rates: -</p> <p>The Committee already constituted by UJVN Ltd on dated 17.04.2018 for identifying common items of capital nature / normal (O&M) and preparing Schedule of Rates, has submitted its report to the Management for approval. The approval of the report from competent authority is under process. The schedule of rates for common items shall be submitted to the Hon'ble Commission by 31.03.2019.</p> <p>2. Procurement of centralized items: -</p> <p>Common items already identified are being purchased/procured through UJVNL's centralize material management unit i.e. MM&CM, Dehradun. The compliance against this directive has already been submitted with the Hon'ble Commission vide UJVNL's letter no. 793/UJVNL/02/D(O)/B-8 dated 03.07.2018.</p> <p>3. Strengthening of internal Audit Mechanism: -</p> <p>UJVN Ltd is continuously making efforts to strengthen its Internal Audit Unit. In additional to the previous staff strength, UJVN Ltd has recently posted an Account Officer in the Internal Audit Unit for further strengthening the Internal Audit Unit. (Relevant order enclosed at Annexure for Point no. 12).</p> <p>Further, additional responsibility has been assigned to GM (Finance) for review, observation and deliberation of works of internal audit unit.</p>
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(Purushottam Singh)
Director (Operation)
UJVN Ltd.
Dehradun

Point No. 20	:-	It is respectfully submitted that the clarification regarding entry of IDC amount for Khatima HEP is enclosed herewith at Annexure for Point no.20.
Point No. 25	:-	It is respectfully submitted that the information for Dhalipur HEP is enclosed herewith at Annexure for Point no.25.
Point No. 26	:-	It is respectfully submitted that the information for Kulhal HEP is enclosed herewith at Annexure for Point no.26.


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

Annexure for Point No. 3

Major Cost benefit from Capital Maintenance of Unit # 1 Dhalipur Power Station

Under agreement executed for Unit #1 for Capital Maintenance of Unit, replacement of repair & replacement of various underwater parts, Overhauling of Oil Cooling and Stator air coolers has enhanced cumulative running hours resulting in enhanced generation capability due to reduction in Forced outage (FO) as well as increase in operational efficiency of underwater parts. Last major overhauling of the machine was done in year 2006-07 and maintenance was due in 2016-17.

It is pertinent to mention that the frequency of fault occurrence has reduced dramatically resulting in reduced Forced Outage (FO) and subsequently availability of Units have increased.

Due to reduced Forced Outage (FO) and reclamation of generation capacity of Unit #1 of Dhalipur Power station, the total generation during September to November quarter has been remarkable in term of generation establishing record generation in the month of August to November, 2018.

With the experience of Unit # 1 following may be derived:

Description	Value	Unit
Actual Generation capacity of Unit#1 (MW) before maintenance	14.5	MW
Generation capacity after work (MW)	16	MW
Additional Generation (MW)	1.5	MW
Percentage enhancement in generation capacity	10.3345	Percentage
Annual average generation of previous 10 years	211.10	MU
Additional annual Generation (MU) benefit	21.81	MU
Additional Revenue Generation Annual benefit from all four Units	1.808	Rs
Additional Revenue Generation Annual from Unit#1	.60284	Rs in Cr
Enhancement in NAPAF due to reduced FO	25	Percent
Additional Revenue Generation Annual from Unit#3 (energy sale plus NAPAF)	0.754	Rs in Cr
Cost of Rehabilitation works of Unit # 1	3.94	Rs in Cr
Cost recovery in Years for Unit # 1	5.22	Years

*** The rate for energy sale Rs .829/- per Unit*

It is pertinent to mention that above generation revenue enhancement is on part of additional sales of Electricity. Due to reduced Forced Outage (FO) and reclamation of generation capacity of Unit #1 after Major rehabilitation of Turbine, Generator and associated equipment will accrue additional benefits on account of The Normative Annual Plant Availability Factor (NAPAF) resulting in expedite recovery of cost involve in the work.

The cost of Major rehabilitation of Turbine, Generator and associated equipment of Unit #1 will be recovered in 5.22 years.

[Signature]
SPGM (H/GC)

[Signature]
(Purushottam Singh)
Director (Generation)
UJVNLtd.
Dahradun

132/33/11kV Sub-Station at Dhalipur Power Station

During failure of grid, which was almost for more than 3 to 4 hours, along with failure of 11kV line from Kulhal (which is most frequent phenomenon during monsoon period), most of auxilliary pressure like pressure at governor goes below specified level and even after resumption of grid Power Station cannot be started due to unavailability of auxilliary supply. Before the commissioning of the Sub-station there was only one 11kV single line coming from Kulhal Power Station DPH, which is passing through deep forest area and most of time it remains out of service due to faults. If fault on line occurs during night time, it requires more than 10 to 12 hours for restoration of line. During fault on grid along with line there was no any means to start the Power House after restoration of grid.

There was Benefit to Nigam due to Solar plant is Rs 1.75Crore during year 2017-18.

9/5


gm


DGM (HGE)


JEE


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

Annexure for Point No. 4

Name of plant: Ichari Dam

Month ↓	Year →	2001-02	2002-03	2003-04	2004-05	2005-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
Day ↓		Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)	Avg RD (M ³ /S)
APR	1 to 10	41.30	97.90	69.20	45.50	83.70	55.90	98.40	59.90	36.60	37.90	50.60	71.70	106.00	106.20	112.40	48.71	69.85
	11 to 20	50.80	108.10	86.80	49.30	86.30	58.10	107.90	67.90	41.30	51.80	67.80	60.70	104.10	97.20	119.80	54.36	89.77
	21 to 30	56.10	146.60	97.30	54.00	101.10	69.90	82.20	77.10	47.50	48.00	82.30	66.20	102.20	108.50	133.50	50.84	81.63
MAY	1 to 10	74.30	162.60	85.00	57.20	97.50	97.00	90.40	83.00	52.40	61.60	98.80	64.80	105.40	137.10	134.70	65.25	65.99
	11 to 20	97.90	236.60	105.50	77.80	94.50	120.70	95.60	82.30	61.70	52.20	109.00	85.80	116.60	120.70	144.50	90.09	85.17
	21 to 31	83.27	137.36	109.09	73.91	86.45	115.82	78.18	103.18	67.27	77.45	123.91	106.45	178.45	114.73	143.73	82.88	84.94
MAYE	1 to 10	88.15	130.43	129.82	68.22	86.75	107.67	80.96	114.46	68.88	78.52	114.36	105.16	177.11	130.62	124.12	82.25	94.27
	11 to 20	146.60	125.60	128.30	86.30	115.70	72.00	120.60	344.70	46.90	74.40	121.20	101.20	739.60	176.30	136.90	95.07	90.12
	21 to 30	215.20	357.30	134.40	74.10	201.40	99.10	126.00	239.80	84.80	102.50	210.70	120.20	353.60	138.50	171.00	132.51	162.50
JULY	1 to 10	252.50	143.70	180.40	95.80	649.70	155.80	256.10	330.40	79.10	245.10	274.50	141.70	329.90	161.70	207.30	177.48	226.10
	11 to 20	440.50	136.00	292.10	83.40	637.30	263.30	141.80	365.80	193.30	190.90	293.40	136.50	322.50	353.10	453.90	375.80	376.97
	21 to 31	323.64	115.55	310.00	121.73	542.45	401.27	171.00	323.64	160.55	442.18	419.36	230.82	497.36	573.91	366.36	329.30	583.98
AUG	1 to 10	347.30	173.60	666.20	205.70	419.00	557.30	366.20	426.50	121.90	538.60	428.80	398.40	544.60	487.40	399.60	580.60	539.69
	11 to 20	591.00	436.30	450.10	265.50	325.30	354.20	317.10	679.20	144.80	583.50	872.10	362.80	616.70	309.80	621.10	612.98	258.40
	21 to 31	258.55	352.18	332.73	280.55	210.27	276.73	222.09	410.09	104.36	740.82	626.91	569.55	417.27	167.45	232.64	389.91	231.85
SEP	1 to 10	151.00	375.40	383.20	132.30	160.10	181.90	251.20	177.00	372.90	552.50	468.60	394.70	276.10	220.40	148.80	223.45	301.56
	11 to 20	108.50	526.20	335.50	110.20	236.90	129.90	133.40	347.20	525.10	807.60	309.40	268.40	193.90	150.40	117.70	139.97	159.70
	21 to 30	85.10	182.60	210.90	81.50	268.20	97.30	114.10	463.30	132.50	703.40	166.10	171.50	218.80	108.80	110.60	113.22	255.58
OCT	1 to 10	73.10	121.60	123.30	68.30	158.00	77.80	86.60	168.10	98.00	250.60	127.80	111.10	152.70	86.40	79.60	93.60	134.67
	11 to 20	59.10	95.30	95.40	86.30	103.10	67.70	73.00	116.60	71.20	160.60	99.10	84.60	119.60	70.20	67.80	71.03	96.63
	21 to 31	51.91	74.82	78.09	58.00	79.27	58.45	60.55	91.64	57.27	127.09	80.45	70.09	90.09	59.73	57.09	60.83	75.90
NOV	1 to 10	49.80	63.50	65.60	47.30	62.20	49.70	52.80	75.30	50.40	95.50	69.40	59.60	77.60	52.00	50.80	51.00	62.87
	11 to 20	44.80	55.60	58.30	40.00	55.50	47.40	45.20	65.90	51.60	82.60	60.80	52.30	56.20	47.00	46.60	46.11	54.57
	21 to 30	42.00	50.50	51.80	41.10	48.60	43.70	43.70	58.20	43.20	70.60	54.60	47.50	59.50	42.00	43.80	41.20	49.20
DEC	1 to 10	37.70	45.80	46.40	39.60	44.70	43.00	41.00	51.90	39.10	61.20	50.50	44.00	53.40	39.60	40.20	39.22	45.01
	11 to 20	38.60	41.90	46.10	36.60	40.10	39.70	42.70	48.40	36.80	55.50	45.70	42.70	48.50	44.90	41.40	35.76	48.50
	21 to 31	36.00	38.36	40.00	34.64	39.36	35.18	37.73	45.64	33.73	55.91	41.82	38.18	46.91	37.64	36.64	33.53	40.24
JAN	1 to 10	33.00	36.80	37.10	35.50	41.20	30.80	39.20	42.40	33.10	55.10	44.00	35.90	43.60	37.60	34.60	36.55	36.91
	11 to 20	33.80	33.70	35.40	33.50	49.00	30.40	45.80	39.60	31.90	50.50	46.50	43.20	44.00	36.70	32.50	35.43	34.75
	21 to 31	33.73	33.55	49.64	37.64	43.82	28.64	38.55	37.00	29.45	45.55	40.36	40.09	45.55	37.27	31.55	38.01	34.51
FEB	1 to 10	37.60	35.70	44.70	45.50	40.60	27.60	41.70	33.90	33.10	47.20	41.20	182.90	44.60	40.40	32.80	37.19	31.82
	11 to 20	57.80	49.50	44.10	66.80	40.90	39.80	42.10	35.90	33.40	53.00	40.80	117.80	61.40	39.60	32.30	37.05	31.87
	21 to 28/29	44.11	49.33	45.22	53.22	35.56	33.67	45.78	28.67	30.44	40.78	44.56	115.00	57.33	63.22	33.78	31.01	29.70
MAR	1 to 10	141.70	79.10	42.00	78.70	35.10	58.10	56.10	30.20	33.50	49.50	49.80	116.70	72.90	174.90	31.80	34.20	32.46
	11 to 20	100.60	52.70	50.20	102.00	50.90	129.10	56.80	29.20	36.10	55.40	48.60	109.90	102.20	106.80	98.60	38.48	30.32
	21 to 31	98.73	67.82	45.73	99.27	48.55	110.18	51.82	33.18	45.55	58.45	62.82	116.73	101.27	130.00	37.18	51.63	36.19

(Signature)
17/1/19
M/1/19

(Mohd Afzal)
EE(E&M), Ichari Dam

Dy. General Manager
Hydel Generation Circle
UJVN Limited
Dehradun

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

Name of Plant: Ichari Dam

Month ↓	Year →	01-02		02-03		03-04		04-05		05-06		06-07		07-08		08-09		09-10		10-11		11-12		12-13		13-14		14-15		15-16		16-17		17-18																																												
		Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)	Tunnel Dis. (M ³ /S)																																													
APR.	1 to 10	41.10	99.90	69.10	45.10	83.10	54.80	99.30	60.30	35.50	39.10	49.90	71.60	103.70	107.80	111.90	48.59	69.51	MAY	1 to 10	73.80	154.30	85.60	77.10	94.70	118.60	94.20	81.80	83.30	49.00	61.90	51.70	108.70	144.20	89.92	85.11																																										
	11 to 20	51.00	106.10	87.40	48.90	82.80	60.20	104.10	67.60	40.40	51.70	66.70	61.20	103.10	97.80	113.30	54.56	90.64		21 to 30	73.80	154.30	85.60	77.10	94.70	118.60	94.20	81.80	83.30	49.00	61.90	51.70	108.70	144.20	89.92	85.11																																										
	21 to 31	57.20	131.90	97.30	53.00	101.00	68.00	81.20	77.30	47.90	47.60	81.50	66.20	98.10	106.30	121.70	51.72	81.85		1 to 10	83.82	138.45	109.09	74.36	86.73	115.36	77.27	123.82	105.09	146.64	113.91	140.91	81.45	84.97																																												
JUN	1 to 10	94.00	120.50	154.80	58.00	85.80	97.70	83.60	113.30	71.80	79.90	103.10	104.10	158.40	142.70	101.50	80.44	102.39	JULY	1 to 10	169.00	145.40	142.20	90.80	119.90	141.10	137.40	170.30	205.60	145.30	155.80	186.90	132.90	183.60	146.20	174.00	159.29	174.40	AUG	1 to 10	161.80	136.40	187.50	78.00	120.60	151.00	119.90	170.30	205.60	145.30	155.80	186.90	132.90	183.60	146.20	174.00	159.29	174.40	1 to 10	181.73	114.82	205.91	94.27	136.36	166.36	159.36	196.91	139.73	189.36	178.80	179.50	178.40	167.20	156.50	171.10	192.80	168.21	169.80
	11 to 20	172.30	161.10	154.10	148.60	167.20	165.90	127.80	178.80	114.10	179.50	178.40	167.20	156.50	171.10	192.80	168.21	169.80		1 to 10	180.09	183.27	128.00	155.45	180.27	189.64	181.27	193.18	94.82	120.91	156.82	181.00	183.27	151.27	188.18	182.99	175.94																																									
	21 to 31	142.20	200.50	189.20	125.70	154.80	168.40	181.10	164.60	117.30	166.50	185.30	184.70	196.70	180.90	131.30	187.23	185.22		1 to 10	106.60	206.78	209.90	103.70	159.90	123.40	127.70	108.40	141.00	143.50	208.40	193.90	173.00	147.00	117.50	130.64	156.96																																									
SEP	1 to 10	82.50	172.10	176.80	76.70	189.10	92.70	107.50	180.50	123.10	105.00	156.40	168.50	175.60	105.20	112.70	99.49	149.12	OCT	1 to 10	71.80	112.90	106.80	63.30	142.90	72.50	81.20	148.30	94.60	190.20	115.60	109.10	151.80	82.60	78.30	80.83	130.20	NOV	1 to 10	57.60	93.40	90.50	83.30	102.80	60.90	65.10	115.30	66.10	146.50	98.70	85.60	117.50	64.50	69.10	71.25	92.18	1 to 10	49.90	63.70	63.60	43.10	62.20	51.00	52.30	76.00	50.00	95.90	69.30	60.60	62.10	52.40	45.70	45.74	55.30				
	11 to 20	43.50	55.60	58.20	36.50	55.70	46.90	46.70	65.80	51.90	80.60	62.10	52.40	48.50	43.70	43.70	42.51	48.66		1 to 10	42.80	37.10	44.70	39.00	44.70	46.20	42.40	41.60	39.80	62.20	50.20	43.50	43.50	48.40	45.00	42.00	35.68		48.15																																							
	21 to 31	36.82	39.00	39.00	34.73	38.73	32.64	37.36	46.18	33.91	55.82	41.73	39.00	47.64	38.00	37.18	33.05	40.10		1 to 10	43.50	36.70	37.10	35.70	41.80	31.70	38.30	42.10	35.80	44.20	37.00	33.80	36.72	37.32	34.19																																											
DEC	1 to 10	33.50	34.00	35.50	33.70	47.60	31.00	45.70	40.20	31.60	50.10	46.90	41.90	41.30	36.50	32.90	35.68	34.19	JAN	1 to 10	33.73	35.09	49.45	37.09	41.36	27.91	39.09	36.27	28.55	46.18	40.18	40.09	45.36	36.82	30.45	38.06	34.02	FEB	1 to 10	38.10	35.90	45.30	45.90	41.40	27.00	40.80	33.30	32.70	45.90	40.80	76.80	45.10	41.50	33.50	37.46	31.87	1 to 10	57.40	47.60	44.50	66.70	40.30	40.50	42.50	37.50	34.30	34.30	52.60	41.10	117.40	61.40	37.80	31.50	36.34	32.69			
	11 to 20	38.10	42.10	47.20	36.40	40.20	40.90	42.30	48.00	35.70	55.20	46.00	43.30	48.40	45.00	42.00	35.68	34.19		21 to 28/29	43.78	44.22	54.11	34.11	31.67	45.44	28.22	30.22	41.33	44.78	112.44	58.33	63.22	33.56	31.56	29.20																																										
	21 to 31	38.10	42.10	47.20	36.40	40.20	40.90	42.30	48.00	35.70	55.20	46.00	43.30	48.40	45.00	42.00	35.68	34.19		1 to 10	109.20	71.20	42.90	55.10	58.80	55.90	30.10	33.40	49.40	48.30	118.30	71.80	117.10	31.20	33.49	32.54																																										
MAR	1 to 10	99.40	53.10	49.30	102.50	50.60	118.20	57.60	28.00	34.20	54.80	48.30	110.20	101.90	121.20	37.70	37.92	29.97	21 to 31	99.36	67.45	45.91	99.91	48.27	111.18	51.55	33.73	45.18	59.00	62.36	107.18	100.36	121.55	37.00	51.97	35.55																																										

(W/rd Afzal), EE(E&M), Ichari Dam

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

Name of Unit:- Dakpathar Barrage, Dakpathar

Month	Day	2008-09		2009-10		2010-11		2011-12		2012-13		2013-14		2014-15	
		Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)
April	1 to 10	51.40	1.98	116.42	4.81	84.67	1.64	56.80	1.42	104.25	0.70	68.71	0.85		
	11 to 20	59.68	1.41	132.91	4.81	108.00	1.42	58.96	1.42	104.76	0.70	75.32	0.85		
	21 to 30	69.41	1.41	157.45	26.55	122.49	1.64	63.59	1.55	121.56	0.70	81.66	1.20		
May	1 to 10	89.28	1.84	172.20	13.28	106.94	1.50	71.43	1.48	119.96	0.70	117.39	1.70		
	11 to 20	113.59	4.01	189.99	53.73	125.51	1.42	84.62	1.71	114.91	0.70	140.78	1.70		
	21 to 31	101.23	4.25	151.36	9.99	122.77	1.67	84.14	1.52	104.73	0.70	137.31	1.70		
June	1 to 10	110.51	4.26	127.07	4.68	173.60	1.42	69.34	1.42	102.01	0.70	112.84	1.70		
	11 to 20	144.19	19.13	149.05	1.42	150.18	1.50	102.99	1.51	126.77	1.35	78.52	1.70		
	21 to 30	164.39	107.20	161.64	20.92	151.07	2.04	89.09	1.42	184.66	26.89	106.23	1.88		
July	1 to 10	184.96	98.82	172.18	4.77	164.64	83.52	130.80	1.42	137.18	595.19	159.02	12.57		
	11 to 20	176.46	379.08	168.45	5.45	173.54	221.19	119.20	1.42	126.87	686.00	169.92	147.60		
	21 to 31	182.07	287.33	149.10	3.27	180.28	245.43	117.59	88.88	162.95	566.24	170.90	344.08		
August	1 to 10	157.53	421.01	179.55	56.05	150.03	725.61	182.14	203.02	175.78	339.83	178.88	563.61		
	11 to 20	164.87	502.50	165.35	589.79	176.05	378.36	188.00	242.98	184.41	269.17	192.62	292.91		
	21 to 31	188.65	131.89	191.68	264.11	178.84	271.28	190.88	749.33	196.61	125.39	195.23	183.63		
September	1 to 10	185.70	28.96	189.92	294.13	179.77	333.62	177.62	27.25	195.46	23.95	193.26	60.06		
	11 to 20	150.76	9.31	173.18	539.28	192.51	232.21	174.91	18.03	151.81	157.48	163.53	26.26		
	21 to 30	122.12	5.02	196.11	474.80	193.63	112.11	133.70	10.49	193.97	217.64	132.01	16.05		
October	1 to 10	108.94	2.93	169.51	3.51	163.49	9.37	113.62	1.78	193.54	47.60	110.27	1.81		
	11 to 20	87.20	1.73	138.02	1.42	131.56	1.42	135.63	1.35	149.61	7.54	87.79	1.13		
	21 to 31	75.28	1.69	103.57	1.69	102.31	1.42	98.38	1.87	122.68	1.08	71.98	1.05		
November	1 to 10	68.63	1.69	85.67	1.42	86.81	1.42	77.23	1.44	95.37	0.99	64.38	0.85		
	11 to 20	58.72	1.79	75.35	1.68	74.65	1.42	65.30	1.41	79.98	0.99	56.00	0.85		
	21 to 30	58.22	1.93	70.01	1.42	63.75	1.65	58.16	2.79	72.89	0.99	53.35	0.85		
December	1 to 10	50.86	1.69	60.92	1.42	59.64	1.55	56.49	1.26	63.80	0.99	50.35	0.85		
	11 to 20	47.96	1.69	50.56	1.53	61.22	1.42	52.58	1.80	59.82	0.99	47.93	1.38		
	21 to 31	47.60	1.69	51.91	1.42	52.00	1.49	48.70	1.50	53.36	0.99	41.43	1.42		
January	1 to 10	42.03	1.97	46.49	1.42	49.41	1.72	48.52	1.41	56.69	0.97	38.56	1.42		
	11 to 20	40.22	3.54	48.82	1.42	49.18	1.41	44.18	33.79	65.05	0.87	35.92	1.42		
	21 to 31	40.06	3.60	48.67	1.61	72.79	1.49	0.00	53.36	56.07	1.03	32.96	1.42		
February	1 to 10	50.34	3.79	51.34	1.42	66.03	1.57	0.00	70.80	52.46	0.85	33.30	1.13		
	11 to 20	77.28	3.96	72.48	1.42	56.38	7.69	0.00	147.79	51.02	0.85	52.35	0.85		
	21 to 28/29	0.00	69.88	76.30	1.68	0.00	63.71	0.00	108.67	48.76	0.85	45.92	0.85		
March	1 to 10	0.00	141.07	106.18	1.44	30.14	23.85	36.32	69.72	45.45	0.85	76.70	0.85		
	11 to 20	0.00	176.10	70.50	1.42	60.56	1.42	131.50	0.99	64.74	0.85	139.80	28.09		
	21 to 31	36.03	23.66	85.35	1.45	59.23	1.42	123.28	1.17	61.18	0.85	133.94	3.03		

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

Executive Engineer (E&M)
 UJVN Limited
 Dakpathar Barrage
 Dakpathar (Dehradun)

Name of Unit:- Dakpathar Barrage, Dakpathar

Month	Day	19-10			19-11			19-12			20-01			20-02			20-03		
		Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)
April	1 to 10	121.00	0.95	65.06	0.57	45.88	4.14	43.61	0.50	61.64	0.73	81.25	0.37						
	11 to 20	129.68	0.85	76.56	0.57	50.15	4.19	59.07	0.46	85.13	0.75	67.20	0.37						
	21 to 30	104.92	0.85	87.21	0.57	54.53	4.48	55.79	0.46	98.25	0.78	75.66	0.37						
May	1 to 10	113.66	0.85	91.94	0.57	57.44	2.03	71.86	0.46	117.86	0.74	70.31	0.37						
	11 to 20	116.13	0.85	91.15	0.57	69.78	1.11	56.53	0.42	128.05	0.73	95.06	0.37						
	21 to 31	91.27	0.85	116.30	0.57	69.67	1.13	84.22	0.43	140.35	0.73	112.77	0.63						
June	1 to 10	93.60	0.85	128.74	13.65	78.26	1.13	90.09	0.43	125.11	0.73	112.03	0.49						
	11 to 20	133.73	0.85	168.66	347.12	52.98	1.10	79.70	0.39	146.34	0.73	106.90	0.34						
	21 to 30	129.65	7.96	194.39	138.20	55.72	1.14	111.08	0.38	182.08	84.16	129.90	0.54						
July	1 to 10	174.89	185.28	175.75	258.71	83.74	1.13	146.28	13.75	183.88	210.58	157.74	5.88						
	11 to 20	176.21	39.30	170.97	359.42	145.78	82.46	161.37	56.44	176.42	371.37	142.62	17.93						
	21 to 31	175.57	123.17	188.82	307.49	157.44	65.20	171.14	366.34	178.39	494.25	142.34	166.25						
August	1 to 10	152.00	243.92	174.56	471.34	134.23	41.09	173.79	533.91	175.21	525.90	154.42	720.49						
	11 to 20	173.35	303.09	130.90	783.80	161.87	47.04	170.90	622.81	126.63	1671.82	179.70	311.45						
	21 to 31	184.33	150.34	193.58	299.10	116.86	24.28	142.90	1034.90	144.84	1168.26	178.60	612.33						
September	1 to 10	183.29	202.04	193.77	42.76	131.41	418.00	155.73	849.43	182.75	673.26	192.72	305.59						
	11 to 20	171.21	27.59	138.15	384.21	146.44	687.20	121.58	1555.05	192.93	287.79	193.03	166.78						
	21 to 30	138.02	22.66	187.31	403.23	156.19	20.29	91.92	1254.33	189.06	35.54	167.33	54.88						
October	1 to 10	96.35	27.66	163.01	65.48	111.90	44.53	182.51	168.93	156.14	12.05	149.74	5.20						
	11 to 20	82.89	19.09	135.31	21.41	75.31	16.31	177.25	24.14	140.14	1.00	107.32	1.24						
	21 to 31	83.10	2.30	117.58	1.90	59.51	17.95	166.33	5.41	111.78	0.48	91.65	0.90						
November	1 to 10	68.03	0.71	95.07	1.94	62.70	1.94	135.02	2.38	94.66	0.47	74.79	0.68						
	11 to 20	63.06	0.85	82.91	2.98	65.70	0.57	115.27	2.27	84.81	0.47	62.73	0.64						
	21 to 30	57.56	0.74	75.79	4.50	51.86	0.57	99.29	1.95	76.10	0.46	57.96	0.82						
December	1 to 10	52.30	0.57	58.01	7.49	44.05	0.57	87.78	0.81	70.16	0.45	53.17	0.56						
	11 to 20	53.75	0.37	61.41	2.50	40.46	0.64	76.60	0.62	65.25	0.44	52.88	0.56						
	21 to 31	46.35	0.57	55.81	1.74	37.16	0.47	76.58	0.54	55.61	0.43	44.52	0.54						
January	1 to 10	45.98	0.57	47.55	1.65	38.58	0.47	78.69	0.52	57.04	0.43	41.02	0.47						
	11 to 20	53.82	0.57	45.81	1.58	36.09	0.47	68.65	0.50	62.14	0.43	51.69	0.36						
	21 to 31	43.80	0.57	47.28	1.55	33.18	0.47	59.01	0.49	50.81	0.43	50.57	0.34						
February	1 to 10	42.23	0.57	47.43	1.54	41.19	0.46	56.94	0.54	49.02	0.43	50.76	145.27						
	11 to 20	48.10	0.97	53.96	1.61	39.45	0.50	68.74	0.74	48.78	0.43	59.02	34.94						
	21 to 28/29	51.32	0.57	47.41	2.05	41.30	0.50	66.64	0.74	53.10	0.45	172.64	18.88						
March	1 to 10	53.46	0.57	44.01	2.63	38.81	0.49	65.41	0.74	58.07	0.56	179.58	1.01						
	11 to 20	56.14	0.57	39.35	2.86	41.63	0.49	68.85	0.74	56.48	0.39	151.21	1.91						
	21 to 31	53.89	0.57	44.21	3.46	53.26	0.49	73.36	0.74	74.47	0.37	146.00	0.94						

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

(Signature)

Executive Engineer (E&M)
UJVN Limited
Dakpathar Barrage
Dakpathar (Dehradun)

Name of Unit:- Dakpathar Barrage, Dakpathar

Month	16-34			16-35			16-37			16-38			16-39			
	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)	Avg Power Channel (Cumecs)	Avg River Yamuna (Cumecs)		
April	127.30	0.78	130.80	0.28	133.21	0.85	52.98	0.74	0.00	87.63	49.27	0.72	0.00	111.99	48.19	0.77
	125.88	0.65	112.27	0.28	137.04	0.85	62.93	0.62	0.00	111.99	48.19	0.77	0.00	43.24	54.23	0.76
May	127.56	0.62	166.54	0.28	166.71	2.13	68.46	0.71	0.00	0.00	0.00	0.72	0.00	63.21	67.99	0.71
	137.55	1.28	123.95	6.60	169.27	1.63	94.89	0.84	95.09	0.00	0.00	0.71	95.09	0.00	67.99	0.71
	169.42	30.15	124.78	1.49	158.62	4.78	87.39	0.80	94.99	0.71	75.96	0.74	94.99	0.71	75.96	0.74
June	191.82	7.21	166.86	6.29	114.96	2.28	84.96	0.85	116.88	1.04	111.44	0.94	116.88	1.04	111.44	0.94
	131.46	1611.22	171.67	16.47	139.63	9.05	106.14	6.56	98.45	0.71	86.78	7.15	98.45	0.71	86.78	7.15
	192.14	268.57	149.65	5.94	165.22	29.44	146.94	15.80	145.49	61.91	101.19	22.52	145.49	61.91	101.19	22.52
July	187.80	233.09	177.95	7.14	187.42	41.33	141.92	172.55	363.81	134.28	149.97	15.23	363.81	134.28	149.97	15.23
	175.23	390.39	144.63	299.30	163.40	444.00	149.00	383.12	142.24	479.96	161.31	221.35	142.24	479.96	161.31	221.35
	172.70	643.23	178.18	460.48	182.31	342.49	163.19	359.22	171.00	632.32	101.97	1248.77	171.00	632.32	101.97	1248.77
August	132.06	797.42	156.09	611.79	185.33	362.03	156.79	726.85	172.52	671.94	182.95	479.81	172.52	671.94	182.95	479.81
	172.84	796.86	170.71	319.37	161.66	730.17	160.78	785.85	195.83	195.91	180.08	472.70	195.83	195.91	180.08	472.70
	194.05	350.49	183.48	45.09	186.97	140.95	191.07	308.28	187.17	245.64	195.63	246.13	187.17	245.64	195.63	246.13
September	196.42	188.27	192.22	82.54	162.79	22.51	182.18	107.41	183.95	307.04	191.96	191.00	183.95	307.04	191.96	191.00
	184.85	65.25	172.30	16.69	144.55	4.26	169.70	16.20	197.86	46.99	194.05	71.57	197.86	46.99	194.05	71.57
	193.69	105.60	117.38	8.41	137.10	2.05	147.50	1.80	192.76	151.70	171.07	482.70	192.76	151.70	171.07	482.70
	186.82	23.39	102.58	3.07	89.24	1.57	117.67	5.53	172.87	17.36	197.23	56.70	172.87	17.36	197.23	56.70
October	166.60	2.13	82.14	9.24	76.04	1.88	91.57	1.62	117.53	17.42	160.01	13.97	117.53	17.42	160.01	13.97
	131.07	0.78	80.43	2.10	60.96	1.74	74.04	1.73	91.81	16.99	122.85	11.33	91.81	16.99	122.85	11.33
November	106.75	0.85	69.77	1.13	66.39	1.01	65.31	1.22	83.57	16.22	106.53	11.33	83.57	16.22	106.53	11.33
	88.49	0.85	62.83	1.13	57.74	0.99	60.72	0.71	71.18	15.45	88.60	11.33	71.18	15.45	88.60	11.33
	79.07	0.98	53.77	1.13	56.12	0.95	57.64	0.71	61.58	6.79	75.15	11.33	61.58	6.79	75.15	11.33
December	73.29	0.99	52.18	1.13	51.62	0.95	54.55	0.71	57.87	0.64	66.79	11.33	57.87	0.64	66.79	11.33
	56.53	0.69	59.93	1.03	51.66	0.95	53.71	0.81	65.47	0.64	57.42	11.43	65.47	0.64	57.42	11.43
	61.59	0.37	50.66	0.99	45.59	1.05	47.06	1.19	54.39	0.60	51.86	11.34	54.39	0.60	51.86	11.34
January	58.88	0.34	51.26	0.90	43.02	1.10	47.01	0.71	48.03	0.63	48.11	11.40	48.03	0.63	48.11	11.40
	59.33	0.32	51.12	0.85	42.00	0.73	44.32	0.79	44.26	0.63			44.26	0.63		
	64.28	0.31	50.25	0.84	41.19	0.71	49.86	1.30	45.29	0.63			45.29	0.63		
	60.57	0.30	56.39	0.60	43.63	0.71	49.43	0.71	43.78	0.63			43.78	0.63		
	81.03	0.31	40.26	0.57	41.13	0.71	45.39	0.71	43.78	0.63			43.78	0.63		
February	83.89	0.28	89.97	0.57	39.64	0.71	44.04	0.90	43.08	0.53			43.08	0.53		
March	93.55	0.28	119.13	90.46	36.17	0.71	41.71	0.72	43.06	1.05			43.06	1.05		
	132.05	0.63	113.45	2.83	45.64	0.71	46.55	0.71	37.53	0.73			37.53	0.73		
April	120.36	0.78	146.90	2.70	41.08	0.60	3.09	60.14	42.56	0.71			42.56	0.71		

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

Executive Engineer (E&M)
 UJVN Limited
 Dakpathar Barrage
 Dakpathar (Dehradun)

Annexure for Point No. 6

Utilization of RoE for Additional Capitalization

(Rs. Crore)

Up to FY 2014-15

	Add Cap Up to FY 2014-15	Invested from Equity	Total Investment from Own Funds
9 LHP's	87.62	100%	87.62
MB-II	132.2	30%	39.66
Total(A)	219.82		127.28

For FY 2015-16

	For FY 2015-16	Invested from Equity	Total Investment from Own Funds
Dhakrani	0.13	100%	0.13
Dhalipur	0.11	100%	0.11
Cibro	3.64	100%	3.64
Khodri	0.77	100%	0.77
Kulhal	0.14	100%	0.14
Ramganga	0.19	100%	0.19
Chilla	23.49	100% excluding Rs 19.30 Crore from DRIP	4.19
MB-I	2.79	100%	2.79
Khatima	56.35	30%	16.905
MB-II	126.74	30% Equity excluding Rs 40.37 Crore for deposit works	25.911
Total(B)	214.35		54.776

For FY 2016-17

	For FY 2016-17	Invested from Equity	Total Investment from Own Funds
Dhakrani	6.26	100%	6.26
Dhalipur	3.98	100%	3.98
Cibro	10.52	100%	10.52
Khodri	7.61	100%	7.61
Kulhal	1.75	100%	1.75
Ramganga	1.12	100%	1.12
Chilla	4.4	100%	4.4
MB-I	1.67	100%	1.67
Khatima	89.73	30%	26.919
MB-II	55.45	30% Equity for balance capital works of Rs. 44.55 Crore and 100% Equity of rest of the amount	24.155
Total(B)	182.49		88.384

Total (A)+(B) Add Cap from Own Funds up to 2016-17	270.44
Recovered through Depreciation from 2001-02 to 2016-17 on above 100% investement on add cap	63.882
(A) Total Utilization of RoE in Add Cap	206.558

Details of Expenditure debited to P&L Accounts

Electricity Charges for Employees	18.50
Incentive Paid to Employees	11.96
GPF Interest	74.45
Corporate Social Responsibility	0.27
Dividend	18.27
(B) Total of Expenditure	123.46
Grand Total (A+B)	330.02
Net Estimated Savings from RoE at the beginning of the FY 2017-18 (Excluding interest allowed by the Hon'ble Commission during FY 2016-17)	317.38


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

UJVN Ltd

Details of Expenditure debited to P&L Accounts

Financial Year	Electricity Charges to Employees	Incentive	GPF Interest	Corporate Social Responsibility	Dividend
2001-02	-	-	0.84	-	-
2002-03	-	-	1.87	-	-
2003-04	-	-	3.63	-	-
2004-05	-	-	3.52	-	-
2005-06	-	-	3.64	-	-
2006-07	-	0.62	3.70	-	-
2007-08	-	-	3.62	-	-
2008-09	-	0.44	4.59	-	-
2009-10	-	-	4.79	-	-
2010-11	-	-	6.19	-	-
2011-12	-	0.65	4.99	-	-
2012-13	-	1.91	6.01	-	-
2013-14	-	0.16	6.55	-	-
2014-15	-	-	7.15	-	-
2015-16	18.50	2.05	6.70	0.07	6.07
2016-17	-	6.14	6.66	0.20	12.21
Total	18.50	11.96	74.45	0.27	18.27


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

Annexure for Point No. 12



यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

UJVNL Limited

(A Govt. of Uttarakhand Enterprise)

मानव संसाधन विभाग, "यमुना भवन", यमुना कालोनी, देहरादून - 248001 (उत्तराखण्ड)
Human Resources Department, "Yamuna Bhawan", Yamuna Colony, Dehradun - 248 001 (Uttarakhand)
दूरभाष/Phone-0135-2530030/2530061/2530584/2530909/2531975 फैक्स/Fax-0135-2531343/2531646 Website: www.ujvnl.com CIN No. U40101UR2001SGC025866

ISO 9001 : 2008 Certified

No. 88/UJVNL/05/Director HR/DGM(Personnel)/E-1(TP)

Dated: January 15, 2019

कार्यालय ज्ञापन

एतद्वारा, निगम कार्यहित में अधोनामित लेखाधिकारी को स्तम्भ-3 में उल्लिखित तैनाती कार्यालय से स्थानान्तरित कर उनके द्वारा कार्यभार ग्रहण करने के दिनांक से स्तम्भ-4 में उल्लिखित कार्यालय में तैनात किया जाता है :-

क्र० सं०	कार्मिक का नाम एवं पदनाम	वर्तमान तैनाती कार्यालय/इकाई	नव तैनाती कार्यालय/इकाई	टिप्पणी
1	2	3	4	5
1	श्री सुरेन्द्र लाल आर्य (91874), लेखाधिकारी	उपमहाप्रबन्धक (जानपद अनुरक्षण-यमुना वैली), ढालीपुर।	उपमुख्य लेखाधिकारी (आन्तरिक सम्प्रेक्षा), देहरादून।	FC & AC Dy.CAO(IA)

टिप्पणी : श्री बिजेन्द्र कुमार(93017), उपमुख्य लेखाधिकारी(यमुना वैली), डाकपत्थर अपने वर्तमान कार्य एवं दायित्वों के साथ-साथ बिना किसी अतिरिक्त पारिश्रमिक के उपमहाप्रबन्धक (जानपद अनुरक्षण-यमुना वैली), ढालीपुर कार्यालय के लेखा इकाई के कार्य एवं दायित्वों का निर्वहन भी करेंगे, फलस्वरूप श्री बिजेन्द्र कुमार, उपमुख्य लेखाधिकारी, कार्यालय उपमहाप्रबन्धक (वि० एवं या०), ढकरानी के लेखा इकाई के अतिरिक्त प्रभार से अवमुक्त हो जायेंगे।

उक्त स्थानान्तरित अधिकारी की वर्तमान तैनाती इकाई से कार्यमुक्ति की अन्तिम तिथि 22-01-2019 होगी तथा उन्हें नियमानुसार कार्यभार ग्रहणकाल अनुमन्य होगा।

प्रबन्ध निदेशक

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

- 1- प्रबन्ध निदेशक, यूजेवीएन लिमिटेड, देहरादून के वैयक्तिक सहायक।
- 2- निदेशक(परिचालन)/ (परियोजनायें)/ (मा०सं०)/ (वित्त), यूजेवीएन लि०, देहरादून के निजी सचिव।
- 3- समस्त अधिशासी निदेशक/ महाप्रबन्धक, यूजेवीएन लिमिटेड।
- 4- कम्पनी सचिव, यूजेवीएन लिमिटेड, देहरादून।
- 5- उपमहाप्रबन्धक, केन्द्रीय वेतन एवं पेंशन भुगतान कार्यालय, यमुना भवन, देहरादून।
- 6- समस्त उपमहाप्रबन्धक/ अधिशासी अभियन्ता, यूजेवीएन लिमिटेड।
- 7- मानव संसाधन विभाग के समस्त अधिकारी/ अनुभाग।
- 8- सम्बन्धित पदधारक।
- 9- कट फाइल।

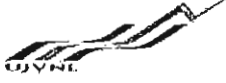
Ashish Kumar
15/1/19
(आशिष कुमार जैन)
उपमहाप्रबन्धक(कार्मिक)

EE(Comm) [Signature]
MD DC. Sharma [Signature]

पंजीकृत कार्यालय : "उज्ज्वल", महारानी बाग, जी०एम०एस०रोड, देहरादून-248 006 (उत्तराखण्ड), दूरभाष-0135-2763808, फैक्स-0135-2763508
Regd. Office : "Ujjwal", Maharani Bagh, G.M.S. Road, Dehradun-248006 (Uttarakhand), Phone-0135-2763808, Fax-0135-2763508

7-Accounts wing officers

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



यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

UJVN LIMITED

(A Govt. of Uttarakhand Enterprise)

उपमहाप्रबन्धक (कार्मिक), यूजेवीएन लिमिटेड, यमुना भवन, देहरादून। दूरभाष संख्या 0135-2530030 फैक्स संख्या 0135-253134
Dy. General Manager (Personnel), "Yamuna Bhawan", Yamuna Colony, Dehradun, Phone-0135-2530030, Fax-0135-253134
CIN No.U40101UR2001SGC025866
ISO 9001:2008 Certified

कार्यालय ज्ञाप

एतद्वारा, आन्तरिक सम्प्रेषण कार्यालय को सशक्त बनाये जाने हेतु यह निर्देशित किया जाता है कि उपमुख्य लेखाधिकारी (आन्तरिक सम्प्रेषण), यूजेवीएन लिमिटेड, देहरादून अपने कार्यालयसे सम्बन्धित समस्त कार्य/प्रकरण महाप्रबन्धक(लेखा) के माध्यम से निदेशक(वित्त) को प्रेषित करेंगे। महाप्रबन्धक(लेखा) उनके द्वारा प्रेषित कार्य/प्रकरणों की समीक्षा, अनुश्रवण एवं विवेचना करते हुये अग्रिम कार्यवाही हेतु निदेशक(वित्त) को प्रेषित करेंगे।

प्रबन्ध निदेशक

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित –

- 1- प्रबन्ध निदेशक, यूजेवीएन लिमिटेड, देहरादून।
- 2- निदेशक(परिचालन)/(परियोजनाएं)/(वा0सं0)/(वित्त), यूजेवीएन लि0, देहरादून।
- 3- समस्त अधिशासी निदेशक/महाप्रबन्धक, यूजेवीएन लिमिटेड।
- 4- कम्पनी सचिव, यूजेवीएन लिमिटेड, देहरादून।
- 5- समस्त उपमहाप्रबन्धक/उपमुख्य लेखाधिकारी, यूजेवीएन लिमिटेड।
- 6- मानव संसाधन विभाग के समस्त अधिकारी/अनुभाग।
- 7- कट फाइल।

आशिष कुमार जैन

उपमहाप्रबन्धक(कार्मिक)

PA
L


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

Annexure for Point No. 20

Point No 20:-

During F.Y. 2017-18 a total amount of Rs. 14.55 Crores were debited to P&L account on a/c of interest on loan taken from PFC for construction of RMU work. It is to appraise that while finalizing the Balance Sheet for F.Y. 2017-18, in order to correct the Interest expenses and to correct interest expenses wrongly capitalised, an amount of Rs. 3.98 Crore on a/c of interest for RMU loan was transferred from CWIP to P&L a/c. After corrective entry the interest expenses chargeable to P&L a/c is matched.

Now we have received the latest detail of additions of fixed assets received from concerned accounting unit, it comes to our knowledge that Interest so transferred from CWIP to P&L A/c was wrongly transferred and which requires to be transferred from Fixed Assets. The rectification entry to transfer from Fixed assets head to CWIP of Rs. 3.98 crores will be done in FY 2018-19.



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

Annexure for Point No. 25

(DHALIPUR Power House)

In reference of Hon'ble UERC letter No: UERC/6/TF/509/2018/2018-19/1392 Dated 09.01.2019

Reply of point No: 24 and 25

Point No 24: Major overhauling of Unit-1 of Dhalipur Power House was carried out in the year 2006-07. After passing a period of around 10 years, the major overhauling of Unit-1 again has been carried out in 2016-17. This Unit i.e. Unit-1 will be taken for its RMU in the last leg of RMU works of Dhalipur Power Station. First of all Unit-2 of Dhalipur Power House will be taken for RMU works. The RMU of Unit-2 is proposed from 09.01.2019.

Therefore, major overhauling of Unit-1 has been carried out on its due time and to make Unit-1 available for generation during RMU of Unit-2 and Unit-3.

Point No 25: Necessity of 132/33/11 kV Sub-station at Dhalipur Power Station:

A. Auxiliary Supply:-

Dhalipur Power Station consists of three generating units of capacity 17MW. Generating voltage of the generator is 11kV which is stepped up to 132kV for transmitting the generated power to PITCUL 132 kV feeders (i.e. Dhakrani, Kulhal and Purukul Dehradun feeders). Generated power at 11kV is stepped down to 440V for meeting the requirement of auxiliary supply/ station supply to the following:


1. Switchyard
2. Battery Bank.
3. Lubrication system particularly to supply generator and turbine bearing and bushings
4. Drainage pumps for removing leakage water from plant.
5. Air compressor for supply to governor, generator brakes and other system.
6. Cooling water system.
7. Fire detection and extinguishing system
8. Intake gates etc.
9. Lighting/ Emergency lighting.

Other sources of station supply is:

- a. 11kV single line was coming from Kulhal Power Station DPH, which is passing through *deep forest area* and most of time it remains out of service due to faults.

During failure of grid, which was almost for more than 3 to 4 hours, along with failure of 11kV line from Kulhal(which is most frequent phenomenon during monsoon period), most

g/s



DGM
12.01.19


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

of auxilliary pressure like pressure at governor goes below specified level and even after resumption of grid Power Station cannot be started due to unavailability of auxilliary supply.

B. Colony Supply:

Colony of Dhalipur Power Station was fed by 11/.4kV SATs and SAT was fed from 11kV line (single line available) from Kulhal Power Station DPH. This line is passing through *deep forest area* due to which occurrence of fault is very frequent. During breakdown of line from Kulhal, colony is fed by UATs. But faults in colony affects the system at Power Station and fault at Power Station affects household equipments. In case of grid failure and fault at Kulhal 11kV feeder simultaneously, colony also don't have supply which affect following:

- a. Cooling water systems, for supply to the generator air coolers, generator and turbine bearings, and step-up transformer.
- b. Service water systems.
- c. Drinking water supply of colony.
- d. Electricity supply to the Power House employees.
- e. Street lights.

For time to time these issues had been taken up by employees associations to strengthen the power supply to Power House and Power House Colony.

Feeding colony or auxiliary system through Unit Auxiliary transformer affects system badly if grid fails in the mean time. Rise of voltage in the event of grid failure burnt household equipments of the employees and equipments at Dhalipur Power Station.

C. Solar Power :-

In the nearby areas solar power plants are being developed. 33kV incoming ways provided for utilization for power evacuation of solar power system in the near future.


Requirement of Hybrid and Power Distribution System:

- a. The sub-station comprising of 33kV incoming 3 feeders and 2 no outgoing along with Power Transformer, 132kV bay and protection system can be accommodated within space available.
- b. Since 312kV line passing in vicinity of the switchyard there was not much space available to construct conventional switchyard and no space available in the Power House building for Control room, GIS hybrid system and PDC was adopted.

No of Feeders:

132kV: 1 No
33kV: 3 No
11 kV: 1 No


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


DGM

Bm
Bm


Load requirement of the sub-station:


Provision for Solar Power Load: 15.5MW (18.23MVA)

Provision for Auxiliary and Colony load: 5MVA

To meet the above requirements, one number 25MVA, 132/33kV transformer has been installed to accommodate all the loads including Solar Power, Power House auxiliary and Colony. Requisition for evacuation of 15.5MW (18.23 MVA) at 33kV system of solar power was given by Executive Engineer (Solar) (Copy enclosed for ready reference).

To cater the Colony and Auxiliary load of the Dhalipur Power Station dedicated one number 5 MVA, 33/11kV transformer has been installed. 5MVA transformer is fed from 25MVA transformer.


DGM
12.01.19




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



यूजेवीएन लिमिटेड

(उत्तराखण्ड सरकार का उप-उद्यम)

UJVN LIMITED

(A Govt. of Uttarakhand Enterprise)

कार्यालय-अधीनकारी अभियंता (सौर), "सूर्यवर्षा" भवन, चौक, मुहम्मदगढ़ रोड, देहरादून-248006 (उत्तराखण्ड) दूरभाष 0135-2761484 फैक्स 0135-2763506
Office of the Executive Engineer (Solar), "Ujwal" Moharam Bagh, G.M.S. Road, Dehradun-248006 (Uttarakhand) Phone 0135-2761484 Fax 0135-2763506
CIN No. 301111/R2001/ST/023866
ISO 9001:2008 Certified Organisation

Letter No: 58/UJVN Ltd./EE(Solar)

Dated: 12/09/2016

Sub Regarding 33 kV Power Evacuation on the grid from Dhalipur Power House for 15.5 MW Grid connected Canal Banks/Top (14.5 MW on Canal Banks and 1 MW on Canal Top) Solar PV Plants near Dhalipur Power House, Dhalipur, Dist- Dehradun.

Executive Engineer(M&G),
Dhalipur Power House
Dhalipur, Dehradun.

It is kindly inform that 15.5 MW Grid connected Canal Banks/Top (14.5 MW on Canal Banks and 1 MW on Canal Top) Solar PV Plants are to be commissioned by 31-03-2017. In this connection Power Purchase Agreements (PPAs) with UPCL and Solar Power Developer (SPD) were done in the month of July '16 and August '16. 33 kV Power Evacuation from 15.5 MW Grid connected Canal Banks/Top (14.5 MW on Canal Banks and 1 MW on Canal Top) Solar PV Plants near Dhalipur Power House, Dhalipur, Dist- Dehradun will be done on the grid at time of commissioning. Details are given below

1.	7.0 MW Grid Connected Canal banks Solar PV Plants near Kulhal Power House, Kulhal.	Power is evacuated from 33 kV Sub Station Kulhal.	--NA--
2.	7.5 MW Grid Connected Canal banks Solar PV Plants near Dhalipur Power House, Dhalipur.	Power is evacuated from 33 kV Sub Station Dhalipur.	One 33 kV bay required at Dhalipur Switch Yard
3.	1.0 MW Grid Connected Canal Top Solar PV Plants near Dhalipur Power House, Dhalipur.	Power is evacuated from 33 kV Sub Station Dhalipur.	One 33 kV bay required at Dhalipur Switch Yard

On the basis of above, SPD will fetch 7.0 MW Solar Power at 33 kV level up to 33 kV Substation, Kulhal and 8.5 MW Solar Power at 33 kV level up to 33 kV Substation, Dhalipur after that UJVNL will evacuate Power on the Grid.

It is comes to the notice that 33 kV substation is proposed for power supply to Dhalipur colony and auxiliary supply for Dhalipur Power House.

It is therefore requested that please incorporate additional 15.5 MW Solar Power for evacuation on Grid and done necessary arrangement so that 15.5 MW Solar Power can be evacuate on grid smoothly at the time of commissioning.

(S.N. Prajapati)
Executive Engineer (Solar)

Cc: For kind information and necessary action.

1. General Manager(Yamuna Valley), Vidyut Bhawan , Dakpathar, Dehradun.
2. Dy.General Manager, Hydle Generation Circle, Dhakram HEP, Dhakram.

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

Annexure for Point No. 26

In reference of Hon'ble UERC letter No. : UERC/6/TF/509/2018-19/1392 Dated 09.01.2019

Reply of Point No. 26

(KULHAL Power House)

Queries:-

UJVNL has claimed Rs. 1.48 crore against procurement of Isolator in Kulhal HEP. On examination it is observed that the cost of isolator with earth switch and without earth switch are almost twice in comparison to the cost provided in the schedule of rates of PTCUL. UJVNL Ltd. To justify the same and submit the compliance of direction pertaining to centralized procurement of common items.

Reply:-


Following problems were being faced as follows :

- The male-female contacts have been repeatedly repaired in the past and misalignment of arms lead to operational problems. The copper contacts have also eroded over period of time leading to heated contacts and energy losses. The contact resistance measured for the contact intactness had been found to be 300-400 $\mu\Omega$ (should be 200 $\mu\Omega$ or better).
- The drive mechanism which operates on pneumatic pressure has a requirement for immediate replacement since operate command fails to trigger the ON/OFF operation and creates panic while planned maintenance.
- The Limit switches need to be replaced as the contacts do not hold the position and either remains uncloused or displacement in contacts leave the contact loose leading to hot spotting.

The estimate was framed on the basis of budgetary offer received from M/s ABB India Ltd., 14 Mathura Road, Faridabad amounting to Rs. 1,46,49,480/- (Rs. One Crore Forty Six Lac Forty Nine Thousand Four Hundred Eighty only) Taxes and Duties Extra and FOR Kulhal. Then open tender was invited on e-procurement system with three make i.e. ABB, Siemens, AREVA & CGL and was publicised on newspaper for proper publicity as well as wide participation. Tender was awarded to lowest bidder M/s iSAT Network Engineers (P) Ltd Haridwar for the same work amounting to Rs. 1,39,60,884/-GST.

Beside all technical specification of a standard Isolators, the Supply & Work of 145 KV Isolators in Kulhal Power Station includes following critically important elements for avoidance of heavy generation losses from 3x10 MW generating Units:

1. Link mechanism shall have 'Dead center interlocking' to prevent any change in end position of disconnecter due to external forces on the arm (e.g Earthquake, Short line fault, Wind etc.) even when the drive is de-coupled from disconnecter.
2. Requirement of Auxiliary contacts for signaling/interlocking shall be as per IEC 129.


DGIM


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

- (a) Signaling/Interlocking of the closed position of disconnecter shall not take place unless it is certain that the contacts will reach a position in which the rated normal current, the peak withstand current and the short-time withstand current can be carried safely.
 - (b) Signaling/Interlocking of open position shall not take place unless the movable contacts have reached a position such that the clearance between contacts is at least 80% of the gap or the isolating distance, or unless it is certain that the movable contacts will reach their fully open position.
3. All contact surfaces shall be of silver plated copper alloy with minimum thickness of coating as 25 μ . All contacts shall be replaceable at site.

4. Advance Interlocking system

Provision for mechanical interlock (castle key type) shall be incorporated for interlocking with associated circuit breaker. The key shall be released only when the isolator is fully closed or fully opened. Sufficient quantity of locks, identical to the one fitted on the isolator, shall be supplied for fixing on the circuit breaker. Exact type and quantity shall be finalized during detailed engineering. In addition, an electrical interlock also shall be provided.

In case of isolators with earth switches, interlocking shall be provided between main switches and earthing switches. All interlocks shall be designed to prevent mal-operation. This may be achieved by means of mechanical levers etc.

All electrical interlocks shall function as to interrupt the supply to the operating circuits. An approved system of interlock shall be provided between electrical and manual operation of isolator. Failure of supply or connection to any electrical interlocks shall not permit mal operation.

Earth switches for the line isolators shall be interlocked electro mechanically to prevent closure of earth switch blades when the transmission line is live. This interlock shall be through a solenoid operated by AC 110V supply taken at site from Line potential transformer. The necessary relays shall be provided to attain interlock.

5. Besides all factor the Isolators must conform to the following standards
 - a) IS: 9921 - Alternating current Disconnectors (Isolators) and Earthing switches for Voltages above 1000V.
 - b) IS: 2544 - Porcelain post insulators for systems with nominal voltages greater than 1000V.
 - c) IS: 2147 - Degree of protection by enclosures for low voltageswitch gear and control gear.
 - d) IS:4691 - -do-
 - e) IS: 2629 - Recommended practice for hot dip galvanising of iron & steel.
 - f) IS: 4759 - Recommended practice for hot dip galvanizing of structural steel
 - g) IS: 2633 - Method of testing weight, thickness & uniformity
 - h) IS: 1573 - Electroplated coating of zinc on iron & steel
 - i) IS: 6735 - Spring washers
 - j) IS: 2016 - Plain washers
 - k) - - Indian Electricity Rules 1956


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

D) IS 1771 - Electroplated coatings of silver and silver alloys for general engineering purposes.

Besides standard working principle of isolators, above mentioned critically important technical specification used for Hydro Power Station required special design and materials which augment the costing factor. But the cost benefit compare to the heavy generation loss can be estimated to many times compare to the cost of such kind of specially designed Isolators.

Purchase order of BHEL dated 08.03.2018 for the 132 KV Isolator with earth switch and without earth switch amounting to Rs. 7.72 lakh and Rs. 6.26 lakh respectively is enclosed for ready reference.

Isolators used in any switchyard for power evacuation system of generating Unit of Hydro Power Station cannot be compared with the any system in PTCUL as there are always redundancy in the system to switch power from one feeder to another. Therefore, the Isolators manufactured by highly reputed firm i.e. ABB, Siemens, CGL & AREVA was considered in the E-tender. However, it cannot be said what type/make of Isolators PTCUL has been procuring in the said documents.



The image shows three handwritten signatures and a printed stamp. The first signature on the left is 'D. G. M.' with 'DGM' printed below it. The second signature on the top right is 'B. B. Kulkarni' with 'B.B. Kulkarni' printed below it. The third signature is in the center, and below it is a printed stamp that reads: '(Purandhar Singh) Director (Operation) UJVNL Ltd. Chandigarh'.



AA-17007

क्रय आदेश

PURCHASE ORDER

UPTT NO HR-0041496 Dt. 01-04-1994
C.S.T. NO. HR-5018287 Dt. 16-03-1995
PAN No.. AAACB4146P

क्रय विभाग PURCHASE DEPARTMENT
भारत हेवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LTD.
सेन्ट्रल फाउन्ड्री फोर्ज प्लांट-हरिद्वार - 249403 (भारत)
Central Foundry Forge Plant - 249403 (INDIA)
(भारत सरकार का उपक्रम / A GOVT. OF INDIA UNDERTAKING)

Phone : (0091) 01334 - 285336, 281277

Telefax : (0091) 01334 - 225892

E-mail : hwcfrm@bhelhwr.co.in

PLEASE QUOTE COMPLETE ORDER No. & DATE IN ALL CORRESPONDENCE

PO NO

P7J0564

08-MAR-18

DATE

INDIGENOUS

PO Revision No : 0 File Reference: 6116/P/360 /7/0326/J

VENDOR/PPX/FAX-SB/CSX/QCM/M&S/6116/N.A., FINAL INSPN. AT CFFP/

Vendor Code: S09318

M/S. ISAT NETWORK ENGG. (P) LTD.

D-24&25, INDUSTRIAL AREA-II,

HARIDWAR

HARIDWAR 249401

INDIA

05AAACB4146P1ZL

Our Enquiry no 201703261 Dated 14/10/2017 Opened on: 31/10/2017

Your offer no ISAT/CFFP/3234/2017-18/COMM Dated: 15/11/2017

& your letter no N.A.

With reference to above, we are pleased to place an order on you for the supply of
following items, on conditions given below & on reverse.

SL NO	MATERIAL CODE	QUANTITY	UNIT	VALUE (RS)	LOTRATE (RS)	LOT QUANTITY	DELIVERY SCHEDULE
1	FF8511150102 132KV,1600A,3PHASE,50HZ AC, OUTDOOR,HORIZONTAL,SINGLE CENTRE BREAK ISOLATOR COMPLETE WITH EARTH SWITCH AS PER SPECIFICATION NO - CFF/CDS/ ISOLATOR/01 S 132KV,1600A,3PHASE,50HZ AC Rev 0 Indent No: 20170326 Item No: 1 Qty:	5.000	NO	3859825.00	771965.00	5.000	26/05/18
2	FF8511150129 132KV,1600A,3PHASE,50HZ AC, OUTDOOR,HORIZONTAL,SINGLE CENTRE BREAK ISOLATOR COMPLETE WITHOUT EARTH SWITCH AS PER SPECIFICATION NO - CFF/CDS/ ISOLATOR/01. S 132KV,1600A,3PHASE,50HZ AC Rev 0 Indent No: 20170326 Item No: 2 Qty:	1.000	NO	625900.00	625900.00	1.000	26/05/18
Total Item Value		RS :	4485725.00	Total Items in Proposal:		2	
Net PO Value		RS :	4485725.00				

Payment : As per Special Instructions.
GST : GST extra as applicable and shall be paid after verification of same on
GSTN
ITC : Input tax credit applicable.
Despatch by : Door Delivery
Delivery Terms : F.O.R. Destination. CPS HWR

(Purushottam Singh)
Director (Operation)

BHEL Ltd.
Bharatnagar



AA-17007

क्रय आदेश
PURCHASE ORDER
 UPTT NO HR-0041496 Dt. 01-04-1994
 C.S.T. NO. HR-5018287 Dt. 18-03-1995
 PAN No.. AAACB4146P

क्रय विभाग PURCHASE DEPARTMENT
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड
 BHARAT HEAVY ELECTRICALS LIMITED
 सेन्ट्रल फाउन्ड्री फोर्ज प्लांट-हरिद्वार - 249403 (U)
 Central Foundry Forge Plant, Haridwar - 249403 (U)
 (भारत सरकार का उपक्रम / A GOVT. OF INDIA UNDERTAKING)

Phone : (0091) 01334 - 285336, 281277

Telefax : (0091) 01334 - 225892

E-mail : hwcfrm@bhel.co.in

PLEASE QUOTE COMPLETE ORDER No & DATE IN ALL CORRESPONDENCE

PO NO

DATE

WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

6. WHEREVER NATIONAL/INTERNATIONAL (N/IN) STANDARDS ARE REFERRED IN OUR SPECIFICATION/DRAWING, THE SUPPLIER IS SUPPOSED TO FOLLOW THE LATEST N/IN STANDARD & MUST SUBMIT A CERTIFICATE MENTIONING THE N/IN STANDARD WITH YEAR & DATE WHICH HE HAS FOLLOWED IN SUPPLY OF THE MATERIALS.

7. THE PURCHASE ORDER NUMBER MUST BE MENTIONED ON ALL THE INVOICES & ALL FUTURE CORRESPONDENCE RELATED TO THIS PO

8. Please inform despatch details to underwriters
 The New India Assurance Company Ltd "Hemkunt Chambers"
 2nd Floor 89, Nehru Place New Delhi - 110 019.

9. CFFP GSTIN : U5AAACB4146P12L

THE INVOICE SHOULD BE GST COMPLIANT MENTIONING THE GSTIN OF CFFP. IN CASE OF ANY DISCREPANCY OBSERVED OR MISMATCH OF GST INPUTS ON GST SYSTEM/ PORTAL, THE PAYMENT OF GST SHALL BE RELEASED ONLY AFTER CONFIRMATION OF INPUT TAX CREDIT TO CFFP.

10. CFFP/BHEL RESERVES THE RIGHT TO PRE-INSPECT THE MATERIAL AT VENDOR'S WORKS/ GODOWN/ PREMISES BEFORE DESPATCH.

11. ORIGINAL MANUFACTURER'S TEST CERTIFICATE IS REQUIRED ALONG WITH DESPATCH & DOCUMENTS. IN CASE SUPPLIES ARE FROM TRADERS, IT SHALL BE THE RESPONSIBILITY OF THE TRADER TO PROVIDE ORIGINAL MANUFACTURER'S TEST CERTIFICATE WITH LINKAGE TO TRADER'S INVOICE STATING BATCH NO.

12. IN CASE OF REJECTION OF MATERIAL AFTER RECEIPT AT CFFP, VENDOR/SUPPLIER IS REQUIRED TO TAKE BACK THE REJECTED MATERIAL AT THEIR COST WITHIN 45 DAYS FROM THE DATE OF REJECTION MEMO/NOTE.
 IF VENDOR/SUPPLIER FAILS TO TAKE BACK THE REJECTED MATERIAL FROM CFFP WITHIN 90 DAYS FROM THE DATE OF THE VENDOR / SUPPLIER AND NO FURTHER CLAIM FOR THE REJECTED MATERIAL WILL BE ENTERTAINED.

(Signature)
 (AMIT KUMAR GUP1A)

DY. MANAGER

(Signature)
 (Purushottam Singh)
 Director (Operation)
 UJVNLtd.
 Dehradun

TECHNICAL JUSTIFICATION OF 132KV DISCONNECTORS :

1. Construction of Make-Break contacts of main blade is such that no external springs are used to achieve contact pressure. This makes contact totally trouble free.
2. All joint in link mechanism exposed directly to external environment have such materials that they do not call for any periodic lubrication and will not create jamming or excessive play which can result into loss of setting of complete isolator or deformation in links and levers.
3. Provision of continuous adjustment/alignment of insulator is there which is required to compensate permitted tolerances of insulator and structure or base frame assembly. Adjustment/alignment using shim washers are not allowed.
4. Bottom bearing assembly of base frame is sealed and there cannot be ingress of dust/dirt water etc. Whole assembly is lubricated for lifelong service.
5. Terminal head of isolator arms where conductor will be terminated is strong and robust. It has 360 degree freedom of rotation and has built-in cover to eliminate deposition of dust or foreign particles.
6. Isolators and Operating mechanisms, which do not require any periodic lubrication/adjustments in linkages, bearings, bush-pins, hinges are only to be used.
7. Link mechanism has 'Dead center interlocking' to prevent any change in end position of disconnecter due to external forces on the arm (e.g Earthquake,Short line fault,Wind etc.) even when the drive is de-coupled from disconnecter.
8. The current carrying conductors and rotary pedestals are designed for easy adjusting and alignment in Tulip Type Contact design for minimum contact resistance.



(Parshottam Singh)
Director (Operation)
UJVIL Ltd.
Dehradun