



JSWHEL/BASPA/HPSPCB/BLG/2024- 10598

24<sup>th</sup> September 2024

**JSW Hydro Energy Limited**

(formerly Himachal Baspa Power Company Limited)

**Baspa - II H.E. Project**

Sholtu Colony, P O. Tapri - 172104

District Kinnaur (Himachal Pradesh)

CIN. : U40101HP2014PLC000681

Phone : +91 9816507000, 9805002039

Fax : +91 1786 - 261258

To,

The Environmental Engineer

H.P State Pollution Control Board

Opposite Indira Market

Rampur, District Shimla (H.P)- 172001

**Sub: Baspa-II H.E.P (300 MW)- Environment Statement for the year ending 31<sup>st</sup> March 2024.**

Dear Sir,

Enclosed herewith please find **Environment Statement (Form-V)** in accordance with the provisions of Rule-14 of the Environment (Protection) amendment Rules, 1993 of the Environment (Protection) Act, 1986 for the financial year ending 31<sup>st</sup> March 2024 pertaining to Baspa-II Hydroelectric Plant (300MW).

Thanking You

Yours Faithfully,

For **JSW Hydro Energy Limited**

Authorized Signatory

**Encl:** As above



Part of O. P. Jindal Group

**Corporate Office :** JSW Centre,  
Bandra Kurla Complex,  
Bandra (East), Mumbai - 400 051

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## Himachal Pradesh State Pollution Control Board

'Him Parivesh', Phase -III, New Shimla-171009, HP.

### Form-V

(See Rule 14)

(To be enclosed along with Consent Renewal Application Form for the subsequent year)

Submission of Environmental Statement is in accordance with the provisions of Rule-14 of the Environment (Protection). Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-04-1993- G.S.R. 386 (E) in the Gazette of India – Extraordinary- Part-II Section-3 Subsection (i). No. 155 dated 28-04-1993 by the Ministry of Environment and Forests, Government of India: read with the Notification dated 13-02-1993 G.S.R. 329 (E) of the Gazette of India-Extraordinary Part-II Section-3 Subsection (i) No. 120 dated 13-03-1993.

"Every Person carrying on an industry, operation, operation or process requiring Consent under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial for the financial year ending the 31<sup>st</sup> March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993."

From:

M/s JSW HYDRO ENERGY LIMITED

BASPA-II HYDROELECTRIC PLANT (300 MW)

SHOLTU COLONY, PO: TAPRI, DISTT: KINNAUR (H.P.) PIN: 172104

To

Member Secretary,

Himachal Pradesh State Pollution Control Board

Him Parivesh, Phase-III, New Shimla,

Shimla-171009, HP.

ENVIRONMENT STATEMENT for the financial year ending the 31<sup>st</sup> March 2024

### PART-A

(i)	Name and address of the owner/occupier of the industry operation or process.	M/s JSW HYDRO ENERGY LIMITED BASPA-II HYDROELECTRIC PLANT (300 MW) SHOLTU COLONY, PO: TAPRI, DISTT: KINNAUR (H.P.) PIN: 172104
(ii)	Industry category- Primary- (STC Code) Secondary-(SIC Code)	
(iii)	Production capacity—Units per annum	1213 MU
(iv)	Year of establishment	2003
(v)	Date of the last Environmental Statement submitted	Submitted vide letter no. JSWHEL/BASPA- II/HPSPCB/BLG/2023-10450, dated 19.09.2023.

**PART-B**

**Water and Raw Material Consumption**

**(i) Water Consumption m<sup>3</sup> per day**

Process:       **NIL**  
 Cooling:       **460.0 m3 day**  
 Domestic:      **32.0 m3 per day**

Name of Products	Process water consumption per unit of product output	
	During the previous Financial year	During the current Financial year
	(1)	(2)
<b>1. Electricity (Hydel)</b>	<b>Not applicable as use of water for Hydropower generation is non-consumptive.</b>	
<b>2.</b>	--	--
<b>3.</b>	--	--

**(ii). Raw material consumption**

*Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous Financial year	During the current Financial year
<b>Water</b>	<b>Electricity</b>	<b>Not applicable, as use of water for hydropower generation is non-consumptive. Being a run of the river project there is no consumption of water for electricity generation.</b>	

\*Industry may use codes if disclosing detail of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

*Suresh*

**PART-C**

**Pollution discharged to environment /unit of output**

(Parameter as specified in the Consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standard with reasons
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**Stack Emission Report- June 2023**

S.N	Location	Stack No.	SPM (mg/Nm3)	CO (mg/Nm3)	NOX (mg/Nm3)	SO2 (mg/Nm3)	Remarks
1	Baspa-II PH	25279584	0.109	0.132	0.242	0.105	Within Limit as per CPCB
2	Baspa_II PH	25280319	0.118	0.124	0.237	0.108	Within Limit as per CPCB
3	Kuppa Barrage	4AB315/P2	0.082	0.134	0.216	0.127	Within Limit as per CPCB
4	Kuppa Barrage	99010179	0.079	0.121	0.224	0.110	Within Limit as per CPCB
5	Kuppa Barrage	25280163	0.094	0.121	0.238	0.095	Within Limit as per CPCB
6	Kuppa Barrage	25281150	0.080	0.124	0.213	0.101	Within Limit as per CPCB

*Standard Limit as per CPCB: PM ≤0.2g/Kw-hr, NOx ≤4.0g/Kw-hr, CO ≤3.5g/Kw-hr, SO2- N/A*

**Stack Emission Report-Sep'2023**

S.N	Location	Stack No.	SPM (mg/Nm3)	CO (mg/Nm3)	NOX (mg/Nm3)	SO2 (mg/Nm3)	Remarks
1	Baspa-II PH	25279584	65.6	65.0	52.0	ND	Within Limit as per CPCB
2	Baspa_II PH	25280319	67.0	62.0	51.0	ND	Within Limit as per CPCB
3	Kuppa Barrage	4AB315/P2	64.4	56.0	41.0	ND	Within Limit as per CPCB
4	Kuppa Barrage	99010179	62.6	40.0	36.0	ND	Within Limit as per CPCB
5	Kuppa Barrage	25280163	63.9	42.0	44.0	ND	Within Limit as per CPCB
6	Kuppa Barrage	25281150	64.8	38.0	38.0	ND	Within Limit as per CPCB

*Standard Limit as per CPCB: PM-75mg/Nm3, NOx-710 mg/Nm3, CO-150 mg/Nm3, SO2- less than 2%*

*Amesha*

**Stack Emission Report-Dec'2023**

S.N	Location	Stack No.	SPM (mg/Nm3)	CO (mg/Nm3)	NOX (mg/Nm3)	SO2 (mg/Nm3)	Remarks
1	Baspa-II PH	25279584	68.3	60.0	45.0	3.0	Within Limit as per CPCB
2	Baspa_II PH	25280319	65.1	60.0	45.0	4.0	Within Limit as per CPCB
3	Kuppa Barrage	4AB315/P2	66.9	50.0	45.0	4.0	Within Limit as per CPCB
4	Kuppa Barrage	99010179	63.7	46.0	40.0	4.0	Within Limit as per CPCB
5	Kuppa Barrage	25280163	61.5	35.0	42.0	1.0	Within Limit as per CPCB
6	Kuppa Barrage	25281150	60.9	42.0	31.0	2.0	Within Limit as per CPCB

*Standard Limit as per CPCB: PM-75mg/Nm3, NOx-710 mg/Nm3, CO-150 mg/Nm3, SO2- less than 2%*

**Stack Emission Report-March 2024**

S.N	Location	Stack No.	SPM (mg/Nm3)	CO (mg/Nm3)	NOX (mg/Nm3)	SO2 (mg/Nm3)	Remarks
1	Baspa-II PH	25279584	0.017	0.187	0.235	0.113	Within Limit as per CPCB
2	Baspa_II PH	25280319	0.017	0.192	0.218	0.104	Within Limit as per CPCB
3	Kuppa Barrage	4AB315/P2	0.018	0.180	0.220	0.087	Within Limit as per CPCB
4	Kuppa Barrage	99010179	0.017	0.187	0.246	0.102	Within Limit as per CPCB
5	Kuppa Barrage	25280163	0.015	0.176	0.192	0.088	Within Limit as per CPCB
6	Kuppa Barrage	25281150	0.017	0.168	0.197	0.080	Within Limit as per CPCB

*Standard Limit as per CPCB: PM ≤0.2g/Kw-hr, NOx ≤4.0g/Kw-hr, CO ≤3.5g/Kw-hr, SO2- N/A*

**STP Report- June 2023**

S.N	Location	pH	TSS (mg/l)	TDS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & grease (mg/l)	Remarks
1	Power House	7.47	27.0	512	23.0	82.0	6.0	Within Limit as per CPCB
2	Kuppa Barrage	7.23	22.0	596	26.0	84.0	3.0	Within Limit as per CPCB

*Limit as per CPCB: pH-5.5-9.0-, TSS-100mg/l, TDS-2100mg/l, BOD-30mg/l, COD-250mg/l, Oil & grease- 10 mg/l*

**STP Report- Sep'2023**

S.N	Location	pH	TSS (mg/l)	TDS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & grease (mg/l)	Remarks
1	Power House	7.18	29.0	488	22.0	84.2	5.2	Within Limit as per CPCB
2	Kuppa Barrage	7.22	36.0	522	26.0	132.0	2.5	Within Limit as per CPCB

*Limit as per CPCB: pH-5.5-9.0-, TSS-100mg/l, TDS-2100mg/l, BOD-30mg/l, COD-250mg/l, Oil & grease- 10 mg/l*

**STP Report- Dec'2023**

S.N	Location	pH	TSS (mg/l)	TDS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & grease (mg/l)	Remarks
1	Power House	7.78	18.0	382	20.0	92.0	1.2	Within Limit as per CPCB
2	Kuppa Barrage	7.54	38.0	482	25.0	126.0	2.1	Within Limit as per CPCB

*Limit as per CPCB: pH-5.5-9.0-, TSS-100mg/l, TDS-2100mg/l, BOD-30mg/l, COD-250mg/l, Oil & grease- 10 mg/l*

**STP Report- March 2024**

S.N	Location	pH	TSS (mg/l)	TDS (mg/l)	BOD (mg/l)	COD (mg/l)	Oil & grease (mg/l)	Remarks
1	Power House	7.78	18.0	382	20.0	92.0	1.2	Within Limit as per CPCB
2	Kuppa Barrage	7.86	35.0	524	26.0	156	2.5	Within Limit as per CPCB

*Limit as per CPCB: pH-5.5-9.0-, TSS-100mg/l, TDS-2100mg/l, BOD-30mg/l, COD-250mg/l, Oil & grease- 10 mg/l*

## PART-D

### Hazardous Wastes

[As specified under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008]

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial year	During the current Financial year
<b>Used oil &amp; lubricants drained From DG Sets, Vehicles and Machines</b>	Quantity of used oil stored at the end of FY 2022-23: 243 Litres  Quantity of used oil generated in FY 2023-24: 840 Litres  Total quantity of used oil generated and stored in FY 2023-24: 1083 Litres  Quantity of used oil sent to authorized recycler for disposal: 1050 Litres  Quantity of used oil consumed at plant locations (self-use): 33 Litres  Total quantity pf used oil stored at the end of FY 2023-24: NIL	Used oil generated in Current FY (April 2024 to August 2024): 72 Litres  Quantity of used oil sent to authorized recycler for disposal: NIL  Quantity of used oil stored in the FY 2024-25 (April 24 to Aug'24): 72 Litres

**Note:** Used oil / lubricants have been sent to registered recycler for disposal.

## PART-E

### Solid Wastes

	Total Quantity (Kg.)	
	During the previous Financial year	During the current Financial year
(a) From process	NIL	NIL
(b) From pollution control facilities	NIL	NIL
(c) 1 Quantity recycled or re-utilized within the unit	NIL	NIL
2 Sold	NIL	NIL
3 Disposed	NIL	NIL



## PART-F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1050 Litres of used oil as Hazardous waste was sent to Authorized recycle for disposal during the FY 2023-24 to Aggarwal Manufacturing Co. Plot No.10, Friend Industrial Estate, Opp. Aarti Steel, Focal Point, Ludhiana.

950 Nos. (Approx. 9.0 MT) of old used batteries were sold to M/s Rolex Enterprises, Survey No.218, Hissa No 4/2, Village Dhansar, Taluka Panvel, District Raigarh, 421312, Maharashtra on 18.03.2024.

Solid waste generation- NIL

## PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Since Plant is in operation therefore, it does not cause adverse effect on the environment including natural resources.

## PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution/prevention of pollution.

Plantation program is undertaken on regular basis. 350 plantation done in 2023-2024 with survival rate of more than 80%

## PART-I

Any other particulars for improving the quality of the environment.

(Signature of a person carrying out an industry – operation or process)

Date: 24.09.2023



Name: Kaushik Maulik

Designation: VP & Head of Plant

Address: M/s JSW HYDRO ENERGY LIMITED

Baspa-II Hydroelectric Plant (300 MW)

Sholtu Colony, PO: Tapri, Distt: Kinnaur (H.P.) PIN: 172104

Seal/Stamp:

