



## H.P.STATE POLLUTION CONTROL BOARD

HIM PARIVESH, PHASE-III, NEW SHIMLA-171009

HPSPCB No : 154

Date: 04/07/2024

Industry Registration ID: 10383

Application No : 11529377

To,

**JSW HYDRO ENERGY LIMITED, KARCHAM WANGTOO HEP**  
**Sholtu Colony. P.O. Tapri, District Kinnaur, H.PSholtu**

**Kinnaur**  
**172104**

**Subject: Renewal of 'Consent to Operate' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.**

With reference to your application for obtaining Renewal of 'Consent to Operate' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit subject to the Terms and Conditions as mentioned in this Consent letter.

### 1.Particulars of Consent to Operate under the Water Act, 1974 and Air Act, 1981 granted to the industry

Consent No.	CTO/BOTH/RENEW/RO/2024/11529377
Consent valid from:	01/04/2024
Consent valid upto:	31/03/2029
Certificate Type :	RENEW
Previous CTE/CTO No. & Validity :	

### 2. Particulars of the Industry

Name & Designation of the Applicant	GYAN BHADRA KUMAR, (Whole Time Director)
Address of Industrial premises	JSW HYDRO ENERGY LIMITED, KARCHAM WANGTOO HEP, Sholtu Colony. P.O. Tapri, District Kinnaur, H.PSholtu, Kinnaur-172104
Capital Investment of the Industry	660653.0 lakhs
Category of Industry	Red
Type of Industry	1009-Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW]
Scale of the Industry	Large
Office District	Kinnaur
Capacity	

Raw Materials (Name with quantity per day)

Raw Materials	Quantiry	Unit
Energy of flowing water from Satluj River	68.8 to 401.55 cumec	K.L./Year

**Products (Name with quantity per day)**

Name of Products	Unit	Quantity	Intermediate Product	Principal Use
Electricity	MW	1000	NIL	Power Purchase Agreement Signed with PTC India Limited

**By-Products, if any,(Name with quantity per day)**

Name of By Products	Unit	Installed Capacity	Average Production
School- Jindal Vidya Mandir	Number/Year	539 Children Seeking Education	N/A
Hospital-Jindal Sanjeevani Hospital	Number/Year	40 Bedded Hospital	N/A

**Details of the Effluent Treatment Plant**

Type of Effluent	Capacity	Quantity
ETP	2 KLD	1 KLD
STP	15 KLD	8 KLD
STP	600 KLD	200 KLD

**Mode of Disposal**

Description	Quantity(in KLD)	Method of Treatment	Method of Disposal
Industrial Process	1	ETP	ETP
Domestic	208	STP	STP

**Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.**

Type	No.of Boiler/'Heater /Evaporator/Incinerator/DG Set/Other	Capacity	Type of Boiler/'Heater s/Evaporators /Incinerator/DG Sets/Others	Type of Fuel	Fuel consumption rate in MT/hour or KL/hour or M3 /hour
DG Sets	2	1500 KVA	Silent	Diesel	300 Ltr/hr
DG Sets	2	1000 KVA	Silent	Diesel	240 Ltr/hr
DG Sets	1	625 KVA	Silent	Diesel	130 Ltr/hr
DG Sets	8	320 KVA	Silent	Diesel	70 Ltr/hr
DG Sets	2	125 KVA	Silent	Diesel	25 Ltr/hr
Incinerator	1	15 Kg/hr	Dual Chamber	Diesel	12 liter/hour

**Type of Air Pollution Control Devices installed**

<b>Equipment Type</b>	<b>Equipment Name</b>	<b>Date/proposed date of installation</b>	<b>Efficiency(%reduction)</b>	<b>Final concentration of pollution being emitted</b>
<b>Acoustic Enclosure</b>	<b>DG Sets</b>	<b>Sat Jan 01 00:03:00 IST 2011</b>	<b>95</b>	<b>SPM 70.3 mg/Nm3, NOx 60.0 mg/Nm3, SO2 5.0 mg/Nm3, CO 76.0 mg/Nm3</b>
<b>Dual Chamber Incineration and Wet Scrubber equipped with Stack height 30m</b>	<b>Incinerator</b>	<b>Thu Jan 21 00:01:00 IST 2021</b>	<b>95</b>	<b>SPM 43 mg/Nm3, NOx 55.5 mg/Nm3, SO2 6.6 mg/Nm3, CO 468 mg/Nm3, CO2, 1.4%, O2 19.1%</b>

Sources of emissions and type of pollutants

Name and location of the process vessel to which the stack/ vent is attached	Rate of emission in Kg./hr	Concentration of pollution like SO <sub>2</sub> , NO <sub>x</sub> , H <sub>2</sub> S, Cl, HCl etc. in mg/Nm <sup>3</sup>	Height of Vent/outlet/stack from ground level in meters
DG Set (320 KVA)	N/A	PM 66.9 mg/Nm <sup>3</sup> , NO <sub>x</sub> 45.0 mg/Nm <sup>3</sup> , CO 50.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 4.0 mg/Nm <sup>3</sup>	35 feet
DG Set (1000 KVA)	N/A	PM 64.4 mg/Nm <sup>3</sup> , NO <sub>x</sub> 45.0 mg/Nm <sup>3</sup> , CO 52.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 1.0 mg/Nm <sup>3</sup>	25 feet
DG Set (1000 KVA)	N/A	PM 68.0 mg/Nm <sup>3</sup> , NO <sub>x</sub> 41.0 mg/Nm <sup>3</sup> , CO 52.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 2.0 mg/Nm <sup>3</sup>	25 feet
DG Set (1500 KVA)	N/A	PM 70.3 mg/Nm <sup>3</sup> , NO <sub>x</sub> 60.0 mg/Nm <sup>3</sup> , CO 76.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 5.0 mg/Nm <sup>3</sup>	70 feet
DG Set (1500 KVA)	N/A	PM 65.2 mg/Nm <sup>3</sup> , NO <sub>x</sub> 45.0 mg/Nm <sup>3</sup> , CO 57.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 2.0 mg/Nm <sup>3</sup>	70 feet
DG Set (320 KVA)	N/A	PM 65.5 mg/Nm <sup>3</sup> , NO <sub>x</sub> 40.0 mg/Nm <sup>3</sup> , CO 35.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 5.0 mg/Nm <sup>3</sup>	35 feet
DG Set (320 KVA)	N/A	PM 62.1 mg/Nm <sup>3</sup> , NO <sub>x</sub> 35.0 mg/Nm <sup>3</sup> , CO 48.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 2.0 mg/Nm <sup>3</sup>	35 feet
DG Set (320 KVA)	N/A	PM 63.1 mg/Nm <sup>3</sup> , NO <sub>x</sub> 34.0 mg/Nm <sup>3</sup> , CO 45.0 mg/Nm <sup>3</sup> , SO <sub>2</sub> 2.0 mg/Nm <sup>3</sup>	15 feet
Incinerator	--	SPM 43 mg/Nm <sup>3</sup> , NO <sub>x</sub> 55.5 mg/Nm <sup>3</sup> , SO <sub>2</sub> 6.6 mg/Nm <sup>3</sup> , CO 468 mg/Nm <sup>3</sup> , CO <sub>2</sub> , 1.4%, O <sub>2</sub> 19.1%	30 meters



**Approved By  
Chairman  
( H. P. State Pollution Control Board)**

**Endst. No.:**

Copy To:-

1.Regional Officer,HPSPCB,Rampur for information and shall ensure to operate the unit as per consent condition with adequate PCDs.



**Anil Joshi, IFS  
Member Secretary  
For & on behalf of  
( H. P. State Pollution Control Board)**

## **TERMS AND CONDITIONS**

### **A. SPECIFIC CONDITIONS**

1. This 'Renewal of Consent to Operate' is only for the purpose and under the provision of Water Act, 1974 and Air Act, 1981 as the case may be, and will not construed as substitute for mandatory clearances required for the project under any other law/regulation/direction/order and the applicant shall obtain any such mandatory clearance before taking any steps to establish industry/ industrial plant, operation or process or any treatment and disposal system or an extension or addition thereto.
2. Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.
3. The unit shall apply for further renewal/extension in the validity of the Consent, before the expiry of this 'Renewal of Consent to Operate'.
4.
  - i) The unit shall ensure compliance of Waste Management Rules i.e. Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016/ Plastic Waste Management Rules, 2016/ E-Waste (Management) Rules, 2016/Construction & Demolition Waste Management Rules, 2016 and Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 and provisions made thereunder, as amended from time to time, without any adverse effect on the environment, in any manner (As Applicable).
  - ii) The unit shall made provisions for the compliance Solid Waste Management Rules, 2016 and provisions made thereunder and unit shall also not practice burning activity of solid waste/waste generated from fuel within/outside premises, to avoid public nuisance.
5. This 'Renewal of Consent to Operate' is for:-
  - i) The emissions from all sources conforming to the norms as prescribed in Schedule-I of Environment (Protection) Rules, 1986 as amended from time to time.
  - ii) Noise and Ambient Air Quality shall be maintained within Ambient Air Quality Standards for noise as specified in Schedule-III of Environment (Protection) Rules, 1986 and Noise Pollution (Regulation and Control) Rules, 2000, as amended from time to time.
  - iii) The effluent (Domestic/Industrial) shall conform to the limits as prescribed in Schedule-I or Schedule-VI or Industry specific standards of Environment (Protection) Rules, 1986 as amended from time to time.
  - iv) Sewage and sullage generated from the unit to be disposed-off in a properly designed septic tank system/Sewage Treatment Plant/ Public Sewer System (as applicable).
6. The unit shall ensure regular operation and maintenance of Pollution Control Devices to achieve the norms as prescribed in Environment (Protection) Act, 1986 and the achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the unit.
7. The unit shall ensure regular operation and maintenance of separate energy meter/flow meter for running pollution control devices and shall also maintain record with respect to operation of air pollution control device/effluent treatment plant, so as to the satisfy the Board regarding the regular operation of air pollution control device/effluent treatment plant and shall maintain log book for the monthly reading / record.
8. **CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974.**
  - a) The unit shall maintain the record regarding the daily water consumption as per flow meter installed.
  - b) The unit shall ensure that terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.

- c) The pollution control devices shall be interlocked with the manufacturing process of the industry (if applicable) and the authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board. Unit shall not use any unauthorized out-let(s) for discharging effluents from its premises.
  - d) Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed-off in scientific manner.
9. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981.**
- a) The unit shall ensure port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets as per the specifications.
  - b) The unit shall discharge air emissions through a stack of minimum height as specified in 'Consent to Establish' and shall follow standards laid down from time to time.
  - c) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation & as per specification.
  - d) Unit shall ensure Stack height for diesel generating sets as per specification.
  - e) The unit shall ensure regular operation and maintenance of installed canopy and stack of the D.G sets so as to control the noise & air pollution in order to comply with the provision of notification No GSR-371 E dated 17-5-2002 or direction as issued by MOEF from time to time, under Environment (Protection) Act, 1986.
  - f) The unit shall ensure disposal of boiler ash/fuel ash through authorized person or within premises in a scientific manner (as the case may be) and shall maintain proper record for the same, if applicable.
  - g) The unit shall ensure regular operation and maintenance of air pollution control arrangements for control emission from its coal/fuel handling area and from handling, transportation and processing of raw material & product of the industry.
- 10. The unit shall ensure valid and approved on-site and off-site emergency plan, approved by the Chief Inspector of Factories, Himachal Pradesh (If applicable).
  - 11. The unit shall ensure regular operation and maintenance of real time online monitoring equipment's and provisions for the un-interrupted transfer of data as per guidelines of CPCB (if applicable).
  - 12. The unit shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipment's etc. which are likely to cause environmental pollution.
  - 13. The unit shall plant & maintain minimum three layer of trees so far possible as per plantation guide (may be download from the website <http://hppcb.nic.in/plantationguide.pdf>) all along the boundary of the industrial premises and check air/water/noise pollution at source.
  - 14. Any guidelines issued by the Central Government/State Government/MoEF/CPCB/SPCB/any other authority concerned, shall be binding.
  - 15. This 'Renewal of Consent to Operate' is subject to orders on any litigation pending in any Court of Law. Any direction/order issued by any court shall be binding (if any).
  - 16. The Board reserves the right to revoke the 'Renewal of Consent to Operate' granted to the industry at any time, in case the industry is found violating the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
  - 17. The unit shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.

## **B. OTHER CONDITIONS**

- 1. The unit shall comply with the conditions imposed by the MoEF/State Level Environment Impact Assessment Authority/ District Level Environment Impact Assessment Authority in the environmental clearance granted to it as required under EIA notification dated 14-9-06, if applicable.

2. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.
3. Stone Crusher units shall comply with the provisions of guidelines notified by the State Government vide Notification No. STE-E(3)-11/2012, dated 29-05-2014 (If Applicable).
4. Brick Kiln units shall comply with the provisions of guidelines notified by the MoEF vide Notification No. G.S.R.233.(E), dated-15-03-2018 and by the State Government vide Notification No. STE-E(5)-6/2013, dated-07-03-2014 (If Applicable).
5. Hydroelectric Projects shall install Online Real Time Monitoring System for the measurement of 15% of minimum discharge in lean season as per orders of Court/Government. The unit shall also ensure provisions for the regular and uninterrupted transfer of data from the real time online monitoring system for 15% of minimum discharge of flow to SPCB, failing which unit shall be liable for action on account of violation of the directions issued by Court/Government/SPCB in this regard (If Applicable).
6. Unit shall strictly adhere to the capacity approved by the Industries Department/ Department of Tourism & Civil Aviation/any other concerned Authority (As Applicable).
7. The unit shall not cause any nuisance/traffic hazard in vicinity of the area.
8. The unit shall ensure that there will not be significant visible dust emissions beyond the property line.
9. The unit shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
10. Unit shall submit all the annual/quarterly returns, as per timeline.
11. The industry shall submit a yearly certificate to the effect that no addition/up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
12. The unit shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
13. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

#### **C. SPECIAL CONDITIONS**

1. Unit shall apply separate renewal of consent to operate application for Hospital and Incinerator components ensuring all the connected compliances. RO shall ensure that no entity of the unit operates without valid consent of the State Board.



**By Order**  
**Chairman**  
**( H. P. State Pollution Control Board)**