

Ref. No. - GMR/ BH/2018/05/3126  
Date - 06/06/2018

**The Additional Pr. Chief Conservator of Forest**  
Ministry of Environment, Forest & Climate Change, GoI  
Central Regional Office,  
Pearson Road, FRI Campus  
P.O. New Forest Dehradun  
Uttarakhand – 248006

**Sub: GMR Bajoli Holi Hydro Power Pvt. Ltd. (180 MW), District-Chamba, Himachal Pradesh –Environmental Clearance Compliance Status**

**Ref: MoEF Approval Letter No. J-12011/86/2007-IA.I Dt 24<sup>th</sup> Jan 2011**

Dear Sir,

Bajoli Holi HE Project (180MW) is under execution by GMR in District Chamba, Himachal Pradesh. Environmental Clearance from MoEF, GOI, Delhi was accorded on 24th Jan 2011.

As per the condition no. VI (General) and 13 of the clearance letter, please find the point wise half yearly compliance report (from Oct. 2017 to March, 2018) is attached herewith as annexure – I please.

Yours faithfully,

For **GMR Bajoli Holi Hydro Power Private Limited**



**(S. P. Bansal)**  
Chief Project Officer

Encl: As Above

Copy to:

1. Ministry of Environment, Forest and Climate Change  
Indira Paryavaran Bhavan  
Jorbagh Road  
New Delhi - 110 003,  
INDIA

2. Member Secretary  
Central Pollution Control Board,  
Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar,  
DELHI - 110 032,  
INDIA
  
3. Member Secretary  
H.P.State Pollution Control Board  
"Him Parivesh", Phase-III,  
New Shimla-171 009.

## Annexure-I

## Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)

A. Specific Conditions		Compliance status
S No		
i	Catchment Area Treatment Plan as has been proposed should be completed in 5 years.	Work is being executed by Forest Dept., GoHP as per approved CAT Plan
ii	Prior approval under Forest (Conservation) Act, 1980 for diversion of forest land should be taken. No physical work will be initiated without forest clearance for this project.	<b>Complied.</b> 1. Approval for diversion of Forest Land was accorded by MoEF on dated 26-Oct-2013. 2. Govt. of Himachal Pradesh (GoHP) accorded diversion of Forest land on dated 28-Jan-2013. 3. Project is under construction.
iii	In all there are 288 project affected families (PAFs) whose land is likely to be acquired permanently and 2 PAFs who will lose land as well as house. The rehabilitation & resettlement of project affected person should be completed before commissioning of the project.	i) The R & R Plan of GBHPPL has been notified in the gazette of Govt. of HP on 26th Feb. 2016. And finalisation of PAFs is under process at GoHP. ii) 79 vulnerable families are covered under Annuity Plan - Pension Scheme. iii) Two fully affected families (PAFs) have been provided their full compensation and settled as per R&R Plan.

P. H. Dole



**Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)**

S No	A. Specific Conditions	Compliance status
iv	<p>The following commitments made during the public hearing should be fulfilled: a) Appointment of two numbers of MD doctors and one of them shall be lady doctor. Both these doctors are to be on the pay rolls of the company. b) Training of the 120 Nos of local youths for the ITI course. c) Strengthening of the existing Holi-Nayagram road, once the same is handed over to GMR after necessary clearance.</p>	<p>a) One MBBS doctor along with three paramedical staff (one female GNM nurse, one pharmacist and one Lab technician) has been appointed at site since 15-Aug-2013. No Gynaecologist responded to advertisement which has been published in newspaper from time to time. Matter is still under discussion.                      (b) Company is committed to provide assistance to locals who will successfully enrol into ITI Course. Till date, 7 no. local is selected for the ITI course. In addition to that during October 2017 to March 2018 we have provided training to 15 young girls in Sewing &amp; Stitching at out Stitching Training centre at Holi. Total 42 girls &amp; women received Sewing training during FY 2017-18. And in the field of higher education we are providing the financial assistance as fees, counselling and guidance etc. to 17 no. of drop out girls through IGNOU Degree Course, and also providing assistance to 17 students for Jawahar Navodaya Vidyalaya admission for 6th standard through coaching programme in three villages Holi ,Kuleth &amp; Sutkar of Project affected Panchayat. And 2 Youths from Project area attended one month training on Electrical Trade at SBI Rural Self Employment Training Institute, Chamba. During the reporting period 88 farmers participated in Training &amp; orientation on Apple Orchard Management, Cutting, Pruning &amp; Disease Management through Interface with Krishi Vigyan Kendra, Horticulture Department &amp; SBI Rural Self Employment Training Institute, Chamba. c) To strengthen the Holi-Nayagram road total 68 no. of retaining wall which covers 1439.6m, 04 no. of Breast wall covering 160m, 8 Nos. of PCC wall covering 97m, 552 running meter Metal crash barrier, and 300 Nos. parapets has been constructed and slip removal in whole length as per necessity to widen the road. Total expenditure for these works is Rs. 445.88 Lakh. In addition Rs. 92.46 Lacs have been deposited to PWD for road strengthening work.</p>
v	<p>Environment flow should be 20% of the average lean season flow of 90% dependable year for four consecutive leanest months.</p>	<p>Noted and Will be complied at operation phase.</p>



*PAH...*

**Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)**

S No	A. Specific Conditions	Compliance status
vi	<p>Biodiversity Conservation &amp; Management plan as proposed in the EMP should be implemented in totality. From the study area 272 flowering plant species were recorded which include 28 trees, 48 shrubs, 10 climbers and 186 herbs. However listing of bryophytes/ Pteridophytes has not been done. this may be done and submitted within three months.</p>	<p>Discussion with Forest Dept. GoHP is under way to implement the Biodiversity Conservation &amp; Management Plan. List of Bryophytes/ Pteridophytes are provided to MoEF vide our letter dt 13-Jan-11.</p>
vii	<p>Fishery conservation &amp; Management plan as proposed in the EMP should be undertaken in consultation with the Fisheries department, Government of Himachal Pradesh. The up gradation of existing facilities of fish farm at Holi in Chamba district should also be done meet the demand of fish seeds.</p>	<p>Implementation is being done by fishery department, GoHP. Required Fishery development fund as demanded by fishery department has been submitted on 27-Sept-11 and final instalment on 10-Mar 2014. NOC is also issued by Fishery dept, GoHP on 22-May 2014.</p>
viii	<p>All the equipments which are likely to generate high noise levels are to be fully mollified (noise reduction measures.)</p>	<p>Equipments used in project construction are complying with the noise levels.</p>
ix	<p>Consolidation and compaction of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan envisages generation of total volume of Muck as 21.64 lakh cum (including 40% swell factor). Out of which about 9.32 lacs cum of muck will be utilized as construction material for various project components and 12.32 lacs cum of muck will be disposed off at pre designated seven number of disposal sites.</p>	<p>Muck is disposed off in pre designated sites which are approved by SPCB, GoHP only. Monthly Muck generation, utilisation and disposal status on these site is regularly submitted to SPCB, GoHP.</p>
x	<p>Green belt development is proposed around project areas, reservoir periphery (12.00 Ha) road side (13.8km) and other components. The average width of green belt around reservoir rim will be around 40 m varying from about 15 m at places to 120 m or as physiographic and land feature allow. The allocated amount of Rs 9.28 lakhs for green belt development should strictly be used for the purpose.</p>	<p>1500 plantation in GMR colony complex, 2200 Plantation in reservoir periphery and 320 at Surge Shaft has been completed . Consultation with Forest Deptt. Is underway to cover whole reservoir periphery.</p>

*[Handwritten signature]*

*[Handwritten signature]*

**Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)**

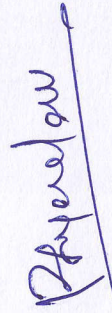
<b>A. Specific Conditions</b>		<b>Compliance status</b>
<b>S No</b>		
xi	The environment clearance does not necessarily imply that forestry clearance shall be granted to the project and that the proposal for the forestry clearance shall be considered by respective authorities on their merit. The investment made in the project, if any based on environment clearance so granted, shall be entirely at cost and risk of the project proponent.	Forest Clearance already granted and Project is under construction.
<b>S No</b>	<b>B. General Conditions</b>	<b>Compliance status</b>
i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost, so that indiscriminate felling of trees is prevented.	Community kitchen facility is provided by Contractor which is factored in the Project cost under resource Conservation Measures.
ii	Fuel depot may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well recreational facilities should also be provided to the labourers.	Only LPG cylinder is being used for cooking etc. Pre joining medical health check-up to all worker is being done at site, in addition occupational health check-up is being done on routine basis covering to all workers.
iii	All the labourers to be engaged for construction works should be thoroughly examined by health personal and adequately treated before issuing them work permit.	Pre joining medical health check-up to all worker is being done at site
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Noted. Will be complied as per the guidance of SPCB, GoHP and Forest Department, GoHP.
v	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.	Noted. Adequate provision is provided in Project cost under Environment & Ecology Cost.
vi	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Dehradun for review.	Noted and regularly submitting the same
vii	Officials from regional office MoEF, Dehradun who would be monitoring the implementation of environmental safeguards should be given full cooperation, facility and documents / data by the project proponents during their inspection.	Noted and Full cooperation will be accorded. Last visit was taken in the Month of Nov., 2017 and all data available with the project proponent have been provided. Full cooperation will be extended for future visits also.



*Dehradun*

**Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)**

A. Specific Conditions		Compliance status
S No		
5	The responsibility of implementation of environmental safeguards rests fully with the M/s GMR Bajoli Holi Hydro Power Pvt. Ltd & Government of Himachal Pradesh.	Noted. and It is implemented
6	The total amount of Rs. 15603.28 Lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.	Noted. Up to 31 March - 2018, we have utilized approximately an amount of Rs. 10355.50 Lakhs towards environment & ecology.
7	In case of change in the scope of the project, project would require a fresh appraisal.	Noted. There is no change in the scope of the project.
8	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measure in a time bound and satisfactory manner.	Noted.
9	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	Complied and Construction in the project area already commenced from 29-May-2013.
10	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal corporation, Urban local body and the local NGO, if any, from whom suggestions/representation, if any, were received while processing the proposal. The clearance letter shall also be on the website of the company by the proponent.	<b>Complied.</b> Notification is mentioned on company web site and copy of the letters are provided to local panchayats and other Govt Depts.





**Bajoli-Holi HEP (180MW) - Half yearly status report (Oct., 2017 to March, 2018)**

S No	A. Specific Conditions	Compliance status
11	<p>The proponent should advertise at least in two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the state Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forest at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a></p>	<p><b>Complied.</b> Advertisement in the newspaper was published on 10th June 2011 in Divya Himachal, Dainik Tribune for (Local newspaper in Vernacular, (Hindi)). Along with in English News paper Tribune and Himachal Times which have wide circulation in the project area. Copy of the advertisement was already provided to your office vide letter dt 7-7-2011.</p>
12	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC condition including result of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MoEF, the respective office of CPCB and the SPCB.</p>	<p>Noted and submitting the same regularly. The monitoring report of Ambient Air Quality, River Water Quality, Ground Water Quality and Noise Level at different locations of Project is also being submitted through Mail.</p>

*R. P. S. Rawat*

*[Signature]*





# ANALYSIS REPORT FOR AIR

TYPE : Ambient

Himachal State Pollution Control Board

Dharamshala

Him Agrico Building, Jachh

Dharamshala, Distt. Kangra

Dharamshala-176215

Tele:01893226368

Sample ID:49001 - Analysis Completion:27/04/2018

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] /

LAB Inward : 6777

1. Name & : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address of the Unit : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, Distt Holi - 176309,Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : AIR-Air Act(Legal) , (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Date & Time of Collection & Receipt : 14/04/2018, (0900 to 1330)
6. Date of Start & Completion of Analysis : 16/04/2018 & 27/04/2018
7. Sampling Point : # Ambient Sampling Point ~ Near Dam Site (180 MW HEP)
8. Fuel : Electricity
9. APCM : Water Sprinklers,
10. Filter No & Weight : MGF--823
11. Temperature on Collection : - & Volume-Absord Media : Avg. flow rate 1.23 m3/min
12. Volume-Gas Passed : 332.1
13. Parameters : 1 & Oper Time(Min) : 270

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	R.S.P.M	-	-	-	61.0 ug/m3

**Laboratory Remarks** : EMP Project Sample. By:22-lab\_22 Dt.: 27/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : under construction hep



# ANALYSIS REPORT FOR AIR

TYPE : Ambient

Himachal State Pollution Control Board

Dharamshala

Him Agrico Building, Jachh

Dharamshala, Distt. Kangra

Dharamshala-176215

Tele:01893226368

Sample ID:49000 - Analysis Completion:27/04/2018

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] /

LAB Inward : 6776

1. Name & : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address of the Unit : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, Distt Holi - 176309,Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : AIR-Air Act(Legal) , (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Date & Time of Collection & Receipt : 13/04/2018, (1600 to 2030)
6. Date of Start & Completion of Analysis : 16/04/2018 & 27/04/2018
7. Sampling Point : # Ambient Sampling Point ~ Near Adit-2
8. Fuel : Electricity
9. APCM : Water Sprinklers,
10. Filter No & Weight : MGF--822
11. Temperature on Collection : - & Volume-Absord Media : Avg. flow rate 1.22 m3/min
12. Volume-Gas Passed : 329.4
13. Parameters : 1 & Oper Time(Min) : 270

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	R.S.P.M	-	-	-	39.0 ug/m3

**Laboratory Remarks** : EMP Project Sample. By:22-lab\_22 Dt.: 27/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : under construction hep



# ANALYSIS REPORT FOR AIR

TYPE : Ambient

Himachal State Pollution Control Board

Dharamshala

Him Agrico Building, Jachh

Dharamshala, Distt. Kangra

Dharamshala-176215

Tele:01893226368

Sample ID:49003 - Analysis Completion:27/04/2018

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] /

LAB Inward : 6779

1. Name & : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address of the Unit : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, Distt Holi - 176309,Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : AIR-Air Act(Legal) , (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Date & Time of Collection & Receipt : 14/04/2018, (1600 to 2030)
6. Date of Start & Completion of Analysis : 16/04/2018 & 27/04/2018
7. Sampling Point : # Ambient Sampling Point ~ Near GMR Colony
8. Fuel : Electricity
9. APCM : Water Sprinklers,
10. Filter No & Weight : MGF--825
11. Temperature on Collection : - & Volume-Absord Media : Avg. flow rate 1.23 m3/min
12. Volume-Gas Passed : 332.1
13. Parameters : 1 & Oper Time(Min) : 270

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	R.S.P.M	-	-	-	52.0 ug/m3

**Laboratory Remarks** : EMP Project Sample. By:22-lab\_22 Dt.: 27/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : under construction hep



# ANALYSIS REPORT FOR AIR

TYPE : Ambient

Himachal State Pollution Control Board

Dharamshala

Him Agrico Building, Jachh

Dharamshala, Distt. Kangra

Dharamshala-176215

Tele:01893226368

Sample ID:48997 - Analysis Completion:27/04/2018

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] /

LAB Inward : 6773

1. Name & : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address of the Unit : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, Distt Holi - 176309,Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : AIR-Air Act(Legal) , (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Date & Time of Collection & Receipt : 11/04/2018, (1600 to 2030)
6. Date of Start & Completion of Analysis : 16/04/2018 & 27/04/2018
7. Sampling Point : # Ambient Sampling Point ~ Near Adit-5 (180 MW HEP)
8. Fuel : Electricity
9. APCM : Water Sprinklers,
10. Filter No & Weight : MGF--819
11. Temperature on Collection : - & Volume-Absord Media : Avg. flow rate 1.23 m3/min
12. Volume-Gas Passed : 332.1
13. Parameters : 1 & Oper Time(Min) : 270

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	R.S.P.M	-	-	-	65.0 ug/m3

**Laboratory Remarks** : EMP Project Sample. By:22-lab\_22 Dt.: 27/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : under construction hep



# ANALYSIS REPORT FOR AIR

TYPE : Ambient

Himachal State Pollution Control Board

Dharamshala

Him Agrico Building, Jachh

Dharamshala, Distt. Kangra

Dharamshala-176215

Tele:01893226368

Sample ID:48996 - Analysis Completion:27/04/2018

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] /

LAB Inward : 6772

1. Name & : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address of the Unit : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, Distt Holi - 176309,Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : AIR-Air Act(Legal) , (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Date & Time of Collection & Receipt : 11/04/2018, (1040 to 1520)
6. Date of Start & Completion of Analysis : 16/04/2018 & 27/04/2018
7. Sampling Point : # Ambient Sampling Point ~ Near Adit-6 (180 MW HEP)
8. Fuel : Electricity
9. APCM : Water Sprinklers,
10. Filter No & Weight : MGF--818
11. Temperature on Collection : - & Volume-Absord Media : Avg. flow rate 1.22 m3/min
12. Volume-Gas Passed : 341.6
13. Parameters : 1 & Oper Time(Min) : 280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	R.S.P.M	-	-	-	64.0 ug/m3

**Laboratory Remarks** : EMP Project Sample. By:22-lab\_22 Dt.: 27/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : under construction hep



ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49005 - Analysis Completion:31/05/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydrel  
power plant of capacity <25MW] / LAB Inward : 6781

TEST REPORT

Test Report No. : 6781

Date: 31/05/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Quantity of Sample Received :
6. Code No. of the Sample : 49005
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1100 to 1100) & 16/04/2018
8. Date of Start & Completion of Analysis : 17/04/2018 & 31/05/2018
9. Sampling Point : River Ravi U/s of Dam Site (180 MW HEP) ~
10. Flow Details (Remarks) : River Ravi
11. Mode of Disposal : River Ravi
12. Ultimate Receiving Body :
13. Temperature on Collection : 8.1 & pH Range on pH Strip :6-8
14. Carboys Nos for : 11 & Color & Appearance :Colourless
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	-	-	-	8.1
2	Solids (Dissolved)	-	-	-	136.0 mg/l
3	Solids (Fixed)Each	-	-	-	97.0 mg/l
4	Suspended Solids	-	-	-	1.0 mg/l
5	Conductivity	-	-	-	209.6 umho/cm
6	Turbidity	-	-	-	Nil
7	Alkalinity	-	-	-	110.0 mg/l
8	Ammonical Nitrogen	-	-	-	Nil
9	Biochemical Oxygen Demand (BOD)	-	-	-	0.1 mg/l
10	Boron	-	-	-	ND
11	Calcium	-	-	-	40.90 mg/l
12	Chloride	-	-	-	12.8 mg/l
13	COD	-	-	-	2.0 mg/l
14	Dissolved Oxygen	-	-	-	8.8 mg/l
15	Fluoride	-	-	-	0.14 mg/l
16	Hardness (Total)	--	-	-	130.0 mg/l
17	Iron	-	-	-	ND
18	Magnesium	-	-	-	6.83 mg/l
19	Nitrate Nitrogen	-	-	-	0.28 mg/l
20	pH	-	-	-	7.56
21	Phosphate (Total)	-	-	-	0.02 mg/l
22	Sulphate	-	-	-	37.65 mg/l
23	Total Kjeldahl Nitrogen (TKN)	-	-	-	Nil

**Laboratory Remarks** : EMP Project sample. By:22-lab\_22 Dt.: 31/05/2018

**Dr. Ramakant Awasthi,SO**

**Field Observation** : river ravi sample

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**Note :**

1. \* - These parameters are covered under the scope of NABL.
2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing.
5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
6. Total liability of our laboratory is limited to the invoiced amount. Any dispute arising out of this report is subject to Himachal Pradesh Jurisdiction only.
7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents



ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49006 - Analysis Completion:31/05/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydel  
power plant of capacity <25MW] / LAB Inward : 6782

TEST REPORT

Test Report No. : 6782

Date: 31/05/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Quantity of Sample Received :
6. Code No. of the Sample : 49006
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1120 to 1120) & 16/04/2018
8. Date of Start & Completion of Analysis : 17/04/2018 & 31/05/2018
9. Sampling Point : River Ravi D/s of Dam Site (180 MW HEP) ~
10. Flow Details (Remarks) : River Ravi
11. Mode of Disposal : River Ravi
12. Ultimate Receiving Body :
13. Temperature on Collection : 8.2 & pH Range on pH Strip :6-8
14. Carboys Nos for : 12 & Color & Appearance :Colourless
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	-	-	-	8.2
2	Solids (Dissolved)	-	-	-	93.0 mg/l
3	Solids (Fixed)Each	-	-	-	66.0 mg/l
4	Suspended Solids	-	-	-	3.0 mg/l
5	Conductivity	-	-	-	141.0 umho/cm
6	Turbidity	-	-	-	2.0 NTU
7	Alkalinity	-	-	-	65.0 mg/l
8	Ammonical Nitrogen	-	-	-	Nil
9	Biochemical Oxygen Demand (BOD)	-	-	-	0.3 mg/l
10	Boron	-	-	-	0.02 mg/l
11	Calcium	-	-	-	23.26 mg/l
12	Chloride	-	-	-	8.5 mg/l
13	COD	-	-	-	4.0 mg/l
14	Dissolved Oxygen	-	-	-	8.9 mg/l
15	Fluoride	-	-	-	0.07 mg/l
16	Hardness (Total)	--	-	-	74.0 mg/l
17	Iron	-	-	-	ND
18	Magnesium	-	-	-	3.90 mg/l
19	Nitrate Nitrogen	-	-	-	0.98 mg/l
20	pH	-	-	-	7.69
21	Phosphate (Total)	-	-	-	ND
22	Sulphate	-	-	-	26.30 mg/l
23	Total Kjeldahl Nitrogen (TKN)	-	-	-	Nil



**Laboratory Remarks** : EMP Project sample. By:22-lab\_22 Dt.: 31/05/2018

**Dr. Ramakant Awasthi,SO**

**Field Observation** : river ravi sample

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**Note :**

1. \* - These parameters are covered under the scope of NABL.
2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
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7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents



ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49012 - Analysis Completion:31/05/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydel  
power plant of capacity <25MW] / LAB Inward : 6788

TEST REPORT

Test Report No. : 6788

Date: 31/05/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Quantity of Sample Received :
6. Code No. of the Sample : 49012
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1440 to 1440) & 16/04/2018
8. Date of Start & Completion of Analysis : 17/04/2018 & 31/05/2018
9. Sampling Point : River Ravi U/s of Power House Site (180 MW HEP) ~
10. Flow Details (Remarks) : River Ravi
11. Mode of Disposal : River Ravi
12. Ultimate Receiving Body :
13. Temperature on Collection : 8.3 & pH Range on pH Strip :6-8
14. Carboys Nos for : 18 & Color & Appearance :Clear
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	-	-	-	8.3
2	Solids (Dissolved)	-	-	-	95.0 mg/l
3	Solids (Fixed)Each	-	-	-	69.0 mg/l
4	Suspended Solids	-	-	-	2.0 mg/l
5	Conductivity	-	-	-	139.0 umho/cm
6	Turbidity	-	-	-	1.0 NTU
7	Alkalinity	-	-	-	65.0 mg/l
8	Ammonical Nitrogen	-	-	-	Nil
9	Biochemical Oxygen Demand (BOD)	-	-	-	0.2 mg/l
10	Boron	-	-	-	0.05 mg/l
11	Calcium	-	-	-	24.06 mg/l
12	Chloride	-	-	-	9.9 mg/l
13	COD	-	-	-	4.0 mg/l
14	Dissolved Oxygen	-	-	-	8.7 mg/l
15	Fluoride	-	-	-	0.09 mg/l
16	Hardness (Total)	--	-	-	78.0 mg/l
17	Iron	-	-	-	ND
18	Magnesium	-	-	-	4.39 mg/l
19	Nitrate Nitrogen	-	-	-	0.77 mg/l
20	pH	-	-	-	7.68
21	Phosphate (Total)	-	-	-	ND
22	Sulphate	-	-	-	26.57 mg/l
23	Total Kjeldahl Nitrogen (TKN)	-	-	-	Nil

**Laboratory Remarks** : EMP Project sample. By:22-lab\_22 Dt.: 31/05/2018

**Dr. Ramakant Awasthi,SO**

**Field Observation** : river ravi

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7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents



ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49013 - Analysis Completion:31/05/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydel  
power plant of capacity <25MW] / LAB Inward : 6789

TEST REPORT

Test Report No. : 6789

Date: 31/05/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)
4. Sample Collected By : Parveen Kumar Dhiman,JEE
5. Quantity of Sample Received :
6. Code No. of the Sample : 49013
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1500 to 1500) & 16/04/2018
8. Date of Start & Completion of Analysis : 17/04/2018 & 31/05/2018
9. Sampling Point : River Ravi D/s of Power House Site (180 MW HEP) ~
10. Flow Details (Remarks) : River Ravi
11. Mode of Disposal : River Ravi
12. Ultimate Receiving Body :
13. Temperature on Collection : 8.3 & pH Range on pH Strip :6-8
14. Carboys Nos for : 19 & Color & Appearance :Clear
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	-	-	-	8.3
2	Solids (Dissolved)	-	-	-	97.0 mg/l
3	Solids (Fixed)Each	-	-	-	75.0 mg/l
4	Suspended Solids	-	-	-	8.0 mg/l
5	Conductivity	-	-	-	141.3 umho/cm
6	Turbidity	-	-	-	3.0 NTU
7	Alkalinity	-	-	-	85.0 mg/l
8	Ammonical Nitrogen	-	-	-	Nil
9	Biochemical Oxygen Demand (BOD)	-	-	-	0.2 mg/l
10	Boron	-	-	-	ND
11	Calcium	-	-	-	23.26 mg/l
12	Chloride	-	-	-	14.2 mg/l
13	COD	-	-	-	3.0 mg/l
14	Dissolved Oxygen	-	-	-	8.7 mg/l
15	Fluoride	-	-	-	0.11 mg/l
16	Hardness (Total)	--	-	-	62.0 mg/l
17	Iron	-	-	-	ND
18	Magnesium	-	-	-	0.98 mg/l
19	Nitrate Nitrogen	-	-	-	1.63 mg/l
20	pH	-	-	-	7.72
21	Phosphate (Total)	-	-	-	ND
22	Sulphate	-	-	-	6.54 mg/l
23	Total Kjeldahl Nitrogen (TKN)	-	-	-	Nil

**Laboratory Remarks** : EMP Project sample. By:22-lab\_22 Dt.: 31/05/2018

**Dr. Ramakant Awasthi,SO**

**Field Observation** : river ravi dample

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**Note :**

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7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents



ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49007 - Analysis Completion:28/04/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydel  
power plant of capacity <25MW] / LAB Inward : 6783

TEST REPORT

Test Report No. : 6783

Date: 28/04/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309  
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC  
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)  
4. Sample Collected By : Parveen Kumar Dhiman,JEE  
5. Quantity of Sample Received :  
6. Code No. of the Sample : 49007  
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1210 to 1210) & 17/04/2018  
8. Date of Start & Completion of Analysis : 17/04/2018 & 28/04/2018  
9. Sampling Point : Ground water (Bore Well GMR Colony) ~  
10. Flow Details (Remarks) : Bore well  
11. Mode of Disposal : Bore well  
12. Ultimate Receiving Body :  
13. Temperature on Collection : 12.2 & pH Range on pH Strip :6-8  
14. Carboys Nos for : 13 & Color & Appearance :Clear  
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Suspended Solids	-	-	-	1.0 mg/l
2	Chloride	-	-	-	7.1 mg/l
3	COD	-	-	-	2.0 mg/l
4	Iron	-	-	-	ND
5	pH	-	-	-	7.67

**Laboratory Remarks** : EMP Project Sample By:22-lab\_22 Dt.: 28/04/2018

Dr. Ramakant Awasthi,SO

Field Observation : bore well water

Note :

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- Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents



# Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

GSTIN: 02AAJCS7647D1ZE CIN:U33130HP2005PLC028806

## TEST CERTIFICATE

Report No. : SSWML/LAB/17-18/EM/N/02531

F/5.10.01

Date: 31.03.2018

Page: 1 of 1

Name and Address of the Customer	M/s GMR Bajoli Holi Hydropower Pvt. Ltd., Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour, Distt. Chamba ( H.P.) -176326		
Work Order Ref.	P.O. No.- 4800136418 dtd: 20.04.2017		
Sample Description	Ambient Noise	Sample Identification/Code	310318-N-25(n)
Sampling Location	Gammon Project Office Area	Date of Sampling	28.03.2018
Sampling Team	Mr. Sanjeev & Team	Date of Receipt of Sample	31.03.2018
Sampling Protocol	Lab SOP	Date of Start of Analysis	31.03.2018
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	31.03.2018
Quantity Packing, Markings , Seal : ----			


Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise ( Gammon Project Office Area ) [Day Time]	dB (A)	53.3	75	IS:9989-1981(R-2001)

Remarks:-

### Terms and conditions governing the test report issued

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2. The test report in full or part shall not be used for promotional or publicity purpose without the written consent of SSWML Laboratory.

For Shivalik Solid Waste Management Ltd.

  
Analysed By  
**SUMAN LATA**

  
Authorized Signatory  
**SANJEEV KUMAR**





# Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

GSTIN: 02AAJCS7647D1ZE CIN:U33130HP2005PLC028806

## TEST CERTIFICATE

Report No. : SSWML/LAB/17-18/EM/N/02532

F/5.10.01

Date: 31.03.2018

Page: 1 of 1

Name and Address of the Customer	M/s GMR Bajoli Holi Hydropower Pvt. Ltd., Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour, Distt. Chamba ( H.P.) -176326		
Work Order Ref.	P.O. No.- 4800136418 dtd: 20.04.2017	Sample Identification/Code	310318-N-39(n) to 310318-N-40(n)
Sample Description	Work Zone Noise	Date of Sampling	29.03.2018
Sampling Location	Mentioned Below	Date of Receipt of Sample	31.03.2018
Sampling Team	Mr. Sanjeev & Team	Date of Start of Analysis	31.03.2018
Sampling Protocol	Lab SOP	Date of Completion of Analysis	31.03.2018
Mode of Receipt of Sample	Collected by SSWML		
Quantity Packing, Markings , Seal : ----			


Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise [ Gammon Engineers & Construction ( Stone Crusher Area ) ]	dB (A)	46.4	90	IS:9989-1981(R-2001)
2	Noise [ ( Gammon) Surge Shaft Area ]	dB (A)	43.6	90	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.

  
Analysed By  
**SUMAN LATA**

  
Authorized Signatory  
**SANJEEV KUMAR**







# Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

GSTIN: 02AAJCS7647D1ZE CIN:U33130HP2005PLC028806

## TEST CERTIFICATE

Report No. : SSWML/LAB/17-18/EM/N/02529

F/5.10.01

Date: 31.03.2018

Page: 1 of 1

Name and Address of the Customer	M/s GMR Bajoli Holi Hydropower Pvt. Ltd., Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour, Distt. Chamba ( H.P.) -176326 P.O. No.- 4800136418 dtd: 20.04.2017		
Work Order Ref.		Sample Identification/Code	310318-N-12(n)
Sample Description	Ambient Noise		
Sampling Location	GMR Colony Area	Date of Sampling	27-28.03.2018
Sampling Team	Mr. Sanjeev & Team	Date of Receipt of Sample	31.03.2018
Sampling Protocol	Lab SOP	Date of Start of Analysis	31.03.2018
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	31.03.2018
Quantity Packing, Markings , Seal : ----			

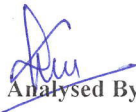
Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise ( GMR Colony Area ) [Day Time]	dB (A)	53.9	75	IS:9989-1981(R-2001)

Remarks:-

### Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

  
Analysed By  
**SUMAN LATA**

  
Authorized Signatory  
**SANJEEV KUMAR**





ANALYSIS REPORT FOR  
WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Dharamshala  
Him Agrico Building, Jachh  
Dharamshala, Distt. Kangra  
Dharamshala-176215  
Tele:01893226368

Sample ID:49011 - Analysis Completion:28/04/2018

Power generation plant [except Wind and Solar  
renewable power plants of all capacities and Mini Hydel  
power plant of capacity <25MW] / LAB Inward : 6787

TEST REPORT

Test Report No. : 6787

Date: 28/04/2018

1. Name of the Customer : Bajoli Holi Hydro Electric Project (180) - 20309  
2. Address : -,GMR Bajoli Holi Hydro Power Pvt. Ltd.,Kartik House, PO-Holi, Tehsil Bharmour, D  
Holi-176309, Taluka : Bharmour, District : Chamba, GIDC : Not in Any SIDC  
3. Nature of Sample : WAT-Water Act(Legal), (Insp Type : ROU-Routine Visit)  
4. Sample Collected By : Parveen Kumar Dhiman,JEE  
5. Quantity of Sample Received :  
6. Code No. of the Sample : 49011  
7. Date & Time of Collection & Inwarding : 15/04/2018 , (1430 to 1430) & 16/04/2018  
8. Date of Start & Completion of Analysis : 17/04/2018 & 28/04/2018  
9. Sampling Point : Sewage Treatment Plants ~ Final outlet of STP (Power House Site GMR)  
10. Flow Details (Remarks) : STP  
11. Mode of Disposal : STP  
12. Ultimate Receiving Body :  
13. Temperature on Collection : - & pH Range on pH Strip :6-8  
14. Carboys Nos for : 17 & Color & Appearance :Slightly Turbid  
15. Water Consumption & W.W.G (KLPD) : Ind :6000.000 , Dom :5.250 & Ind :0.000 , Dom :4.280

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Suspended Solids	-	-	-	2.0 mg/l
2	Biochemical Oxygen Demand (BOD)	-	-	-	2.6 mg/l
3	COD	-	-	-	20.0 mg/l
4	Oil and Grease	-	-	-	Nil
5	pH	-	-	-	7.35

**Laboratory Remarks** : The parameters analysed are within limit. By:22-lab\_22 Dt.: 28/04/2018

Dr. Ramakant Awasthi,SO

**Field Observation** : the stp was operative

Note :

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