GMR Bajoli Holi Hydropower Private Limited



Corporate Office:
Airport Building 302, 1st Floor
New Shakti Bhawan
New Udaan Bhawan Complex
Near Terminal 3, IGI Airport
New Delhi-110037
CIN U40101HP2008PTC030971
F +91 11-47165722
W www.gmrgroup.in

Ref. No. - GMR/ BH/2017/06/2712 Date - 30th June 2017

The Additional Pr. Chief Conservator of Forest
Ministry of Environment, Forest & Climate Change, Gol
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 24th 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 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:

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



- 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	~
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d diest cleanance for this project.
forest clearance for this project. 2. Govt. of Himachai Fragesh (GoHF) accorded diversion of Forest land on dated 28-Jan-2013. 3. Project is under construction.



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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.	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.	All the equipments which are likely to generate high noise levels are to be fully mollified (noise reduction measures.)	Fishery conservation & 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.	Biodiversity Conservation & 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.	A. Specific Conditions	Bajoli-Holi HEP (180MW) - Half yearly status report
1400 plantation in GMR colony complex and 2200 Plantation in reservoir periphery has been completed. Consultation with Forest Deptt. Is underway to cover whole reservoir periphery.	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.	Equipments used in project construction are complying with the noise levels.	Fishery conservation & Management plan as proposed in the EMP Implementation is being done by fishery department, GoHP. Required should be undertaken in consultation with the Fisheries department, Fishery development fund as demanded by fishery department has been Government of Himachal Pradesh. The up gradation of existing submitted on 27-Sept-11 and final instalment on 10-Mar 2014. NOC is also facilities of fish farm at Holi in Chamba district should also be done issued by Fishery dept, GoHP on 22-May 2014.	Discussion with Forest Dept. GoHP is under way to implement the Biodiversity Conservation & Management Plan. List of Bryophytes/Pteridophytes are provided to MoEF vide our letter dt 13-Jan-11.	Compliance status	atus report Dec., 2016 to May - 2017



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Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Dehradun for review.	Financial provision should be made in the total budget of the project Noted. Adequate for implementation of the above suggested safeguard measures. Ecology Cost.	Restoration of construction area including dumping site of excavated Noted. Will be con materials should be ensured by leveling, filling up of burrow pits, Department, GoHP. landscaping etc. The area should be properly treated with suitable plantation.	All the labourers to be engaged for construction works should be thoroughly examined by health personal and adequately treated before issuing them work permit.	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.	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.	B. General Conditions	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.	A. Specific Conditions	Bajoli-Holi HEP (180MW) - Half yearly status report Dec.,
Noted and regularly submitting the same	Noted. Adequate provision is provided in Project cost under Environment & Ecology Cost.	Noted. Will be complied as per the guidance of SPCB, GoHP and Forest Department, GoHP.	for construction works should be personal and adequately treated Pre joining medical health check-up to all worker is being done at site	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.	orce Community kitchen facility is provided by Contractor which is factored in the that Project cost under resource Conservation Measures.	Compliance status	Forest Clearance already granted and Project is under construction.	Compliance status	atus report Dec., 2016 to May - 2017



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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 proposal.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	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.	In case of change in the scope of the project, project would require a fresh appraisal.	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.	The responsibility of implementation of environmental safeguards rests fully with the M/s GMR Bajoli Holi Hydro Power Pvt. Ltd & Government of Himachal Pradesh.	Officials from regional office MoEF, Dehradun who would be Noted and Full cooperation will be accorded. monitoring the implementation of environmental safeguards should Last visit was taken in Sep 2013 and all data available with the project be given full cooperation, facility and documents / data by the project proponent has been provided. Full cooperation will be extended for full proponents during their inspection.	A. Specific Conditions	Bajoli-Holi HEP (180MW) - Half yearly status report Dec.,
Complied. Notification is mentioned on company web site and copy of the letters are provided to local panchayats and other Govt Depts.	Complied and Construction in the project area already commenced from 29-May-2013.	Noted.	Noted. There is no change in the scope of the project.	Noted. Up to 31 May - 2017, we have utilized approximately an amount of Rs. 10306.24 Lakhs towards environment & ecology.	Noted. and It is implemented	Officials from regional office MoEF, Dehradun who would be Noted and Full cooperation will be accorded. monitoring the implementation of environmental safeguards should Last visit was taken in Sep 2013 and all data available with the project be given full cooperation, facility and documents / data by the project proponent has been provided. Full cooperation will be extended for future proponents during their inspection.	Compliance status	atus report Dec., 2016 to May - 2017



The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC condition including result o 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.	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 http://www.envfor.nic.in	S No A. Specific Conditions	Bajoli-Holi HEP (180MW) - Half yearly status report Dec.,
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. Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly. The monitoring report of Ambient Noted and Submitting the same regularly.	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 http:wwww.envfor.nic.in Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Complied. Advertisement in the newspaper was published on 10th June (Comp	Compliance status	/ status report Dec., 2016 to May - 201/





(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/AA/0165

F/5.10.01.A Date: 03.05.2017

Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,					
	Distt. Chamba (H.P.) -176326	Distt. Chamba (H.P.) -176326				
Work Order Ref.	P.O. No 4800136418 dtd:					
Work Order Rei.	20.04.2017	Sample Identification/Code	010517-A-08(n)			
Sample Description	Ambient Air	-				
Sampling Location	DAM Area	Date of Sampling	28.04.2017			
Sampling Team	Mr. Ashok &Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017			
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	02.05.2017			
Quantity Packing, Markings,	Seal: Received in plastic bottles &	z plastic case.				

Sampling Details:

1. Actual duration of sampling (minutes) 427 2. Total Volume Sampled of PM10 (cubic meter) 550.	 Ambient air Temperature (°C) General Environmental Condition Clear Sky
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Sr. No.	Parameters	Unit	Result	Standard Limits (NAAQS)	Method Reference
1	Particulate Matter, PM(2.5)	μg/m³	39	60	CPCB Guidelines, Gravimetric Method, 2011
2	Particulate Matter, PM(10)	$\mu g/m^3$	60	100	IS:5182 (Part-23) 2006
3 - 1	Nitrogen Oxides as NO ₂	$\mu g/m^3$	21	80	IS: 5182 (P:VI)
4	Sulphur Dioxide as SO ₂	$\mu g/m^3$	9	80	IS: 5182 (P:II)
5	Carbon Monoxide	mg/m³	ND (DL=1)	4	CO Analyzer

Remarks: - Where, ND is Not Detected, DL is Detection Limit.

Terms and conditions governing the test report issued

1. The test report shall not be reproduced in full or part without the written approval of the SSWML Laboratory.

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.

SANJEEV KUMAR

Authorized Signatory
SANJEEV KUMAR









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/AA/0166

F/5.10.01.A Date: 03.05.2017

			1 450. 1 01 1			
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer	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:					
work Order Rei.	20.04.2017	Sample Identification/Code	010517-A-09(n)			
Sample Description	Ambient Air	-				
Sampling Location	Adit-2	Date of Sampling	28.04.2017			
Sampling Team	Mr. Ashok &Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017			
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	02.05.2017			
Quantity Packing, Markings,	Seal: Received in plastic bottles	s & plastic case.				

Sampling Details:

	Actual duration of sampling (minutes) Total Volume Sampled of PM10 (cubic meter)	477 618.67		Ambient air Temperature (°C) General Environmental Condition	16 Clear Sky	
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Sr. No.	Parameters	Unit	Result	Standard Limits (NAAQS)	Method Reference
1	Particulate Matter, PM(2.5)	μg/m³	31	60	CPCB Guidelines, Gravimetric Method, 2011
2	Particulate Matter, PM(10)	$\mu g/m^3$	58	100	IS:5182 (Part-23) 2006
3	Nitrogen Oxides as NO ₂	$\mu g/m^3$	17	80	IS: 5182 (P:VI)
4	Sulphur Dioxide as SO ₂	$\mu g/m^3$	6	80	IS: 5182 (P:II)
5	Carbon Monoxide	mg/m³	ND (DL=1)	4	CO Analyzer

Remarks: - Where, ND is Not Detected, DL is Detection Limit.

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For Shivalik Solid Waste Management Ltd.

SANJEEV KUMAR

Authorized Signatory
SANJEEV KUMAR









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/AA/0158

F/5.10.01.A Date: 03.05.2017 Page: 1 of 1

Name and Address of the	ne and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer	Rgd Off Rattan Chand Building, VF	O - Kuleth, Sub Tehsil- Holi, Tehsil	- Barmour,			
□M/s GMR Bajoli Holi	Distt. Chamba (H.P.) -176326					
Work Order Ref. P.O. No 4800136418 dtd:						
	20.04.2017 Sample Identification/Code 010517-A-01					
Sample Description	Ambient Air	•				
Sampling Location	GMR Colony	Date of Sampling	27.04.2017			
Sampling Team	Mr. Ashok &Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017			
Mode of Receipt of Sample	Sampled by SSWML Date of Completion of Analysis 02.05.2017					
Quantity Packing, Markings,	Seal: Received in plastic bottles & plas	tic case.				

Sampling Details:

1.	Actual duration of sampling (minutes)	440	3.	Ambient air Temperature (°C)	18
2.	Total Volume Sampled of PM10 (cubic meter)	572	4.	General Environmental Condition	Clear Sky

Sr. No.	Parameters	Unit	Result	Standard Limits (NAAQS)	Method Reference
1	Particulate Matter, PM(2.5)	μg/m³	19	60	CPCB Guidelines, Gravimetric Method, 2011
2	Particulate Matter, PM(10)	$\mu g/m^3$	90	100	IS:5182 (Part-23) 2006
3	Nitrogen Oxides as NO ₂	$\mu g/m^3$	19	80	IS: 5182 (P:VI)
4	Sulphur Dioxide as SO ₂	$\mu g/m^3$	8	80	IS: 5182 (P:II)
5	Carbon Monoxide	mg/m³	ND (DL=1)	4	CO Analyzer

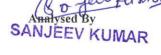
Remarks: - Where, ND is Not Detected, DL is Detection Limit.

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For Shivalik Solid Waste Management Ltd.













(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

F/5.10.01.A Date: 03.05.2017

Page: 1 of 1

Report No.: SSWML/LAB/17-18/EM/AA/0161

Name and Address of the	M/s GMR Bajoli Holi Hydropower	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,						
Customer	Rgd Off Rattan Chand Building, VF	PO - Kuleth, Sub Tehsil- Holi, Tehsil	- Barmour,					
	Distt. Chamba (H.P.) -176326		8					
Work Order Ref.	P.O. No 4800136418 dtd:							
work Order Rei.	20.04.2017	20.04.2017 Sample Identification/Code 010517-A-04(n)						
Sample Description	Ambient Air		20 20 20 10 40 May 2					
Sampling Location	Power House	Date of Sampling	27.04.2017					
Sampling Team	Mr. Ashok &Team	Date of Receipt of Sample	01.05.2017					
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017					
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	02.05.2017					
Quantity Packing, Markings,	Seal: Received in plastic bottles & plas	tic case.						

Sampling Details:

1. 2.	Actual duration of sampling (minutes) Total Volume Sampled of PM10 (cubic meter)	423 549.9		Ambient air Temperature (°C) General Environmental Condition	18 Clear Sky	
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Sr.' No.	Parameters	Unit	Result	Standard Limits (NAAQS)	Method Reference
1	Particulate Matter, PM(2.5)	$\mu g/m^3$	26	60	CPCB Guidelines, Gravimetric Method, 2011
2	Particulate Matter, PM(10)	$\mu g/m^3$	50	100	IS:5182 (Part-23) 2006
3	Nitrogen Oxides as NO ₂	$\mu g/m^3$	17	80	IS: 5182 (P:VI)
4	Sulphur Dioxide as SO ₂	$\mu g/m^3$	8	80	IS: 5182 (P:II)
5	Carbon Monoxide	mg/m³	ND (DL=1)	4	CO Analyzer

Remarks: - Where, ND is Not Detected, DL is Detection Limit.

Terms and conditions governing the test report issued

1. The test report shall not be reproduced in full or part without the written approval of the SSWML Laboratory.

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.

SANJEEV KUMAR









ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Sample ID:46482 - Analysis Completion:19/05/2017

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

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] / LAB Inward : 6191

TEST REPORT

Test Report No.: 6191 Date: 19/05/2017

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, Di

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 : 46482

7. Date & Time of Collection & Inwarding : 04/05/2017, (1100 to 1100) & 05/05/2017

8. Date of Start & Completion of Analysis : 05/05/2017 & 19/05/2017

9. Sampling Point : Bore Well Near GMR Colony ~

10. Flow Details (Remarks): Bore well11. Mode of Disposal: Bore well12. Ultimate Receiving Body: ravi

13. Temperature on Collection : ---- & pH Range on pH Strip :6-8
14. Carboys Nos for : (3) & 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	Suspended Solids	-	-	-	3.0 mg/l
2	Chloride	-	-	-	8.52 mg/l
3	COD	-	-	-	12.0 mg/l
4	Iron	-	-	-	0.59 mg/l
5	рН	-	-	-	7.87

<u>Laboratory Remarks</u>: EMP Project Sample. By:22-lab_22 Dt.: 19/05/2017

Dr. Ramakant Awasthi,SO

Field Observation : bore well sample

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

N I C



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Sample ID:46483 - Analysis Completion:19/05/2017

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

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] / LAB Inward : 6192

TEST REPORT

Test Report No.: 6192 Date: 19/05/2017

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, Di

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 : 46483

7. Date & Time of Collection & Inwarding : 04/05/2017, (1200 to 1200) & 05/05/2017

8. Date of Start & Completion of Analysis : 05/05/2017 & 19/05/2017

9. Sampling Point : Bore Well Power House Site GMR ~

10. Flow Details (Remarks): Bore well11. Mode of Disposal: Bore well12. Ultimate Receiving Body: ravi

13. Temperature on Collection : ---- & pH Range on pH Strip :6-8
14. Carboys Nos for : (4) & 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	Suspended Solids	-	-	-	4.0 mg/l
2	Chloride	-	-	-	9.94 mg/l
3	COD	-	-	-	12.0 mg/l
4	Iron	-	-	-	ND
5	рН	-	-	-	7.88

<u>Laboratory Remarks</u>: EMP Project Sample. By:22-lab_22 Dt.: 19/05/2017

Dr. Ramakant Awasthi,SO

Field Observation : bore well sample

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

N I C



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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/GW/0206

F/5.10.01

Date: 06.05.2017 Page: 1 of 2

Name, and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer 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 Ground Water

Sampling Location DAM Site

Sampling Team Mr. Ashok & Team

Sampling Protocol Lab SOP

Mode of Receipt of Sample Sampled by SSWML

Sample Identification/Code 010517-W-15(n)

Date of Sampling28.04.2017Date of Receipt of Sample01.05.2017Date of Start of Analysis01.05.2017Date of Completion of05.05.2017

Date of Completion of Analysis

Quantity Packing, Markings, Seal: 5 L, Received in plastic bottles

Sr.	Parameters	Unit	Result		dard Limits	Method Reference
No.					S:10500	
				Desirable	Permissible Limit	1.
				Limit	(In the absence of	
					alternate Source)	
1	pH Value		7.96	6.5-8.5	No Relaxation	APHA _{22nd Ed.} 4500H+-B
2	Chloride as Cl ⁻¹	mg/L	12.8	250	1000	APHA _{22nd Ed.} 4500Cl-B
3	Total Dissolve Solids	mg/L	166	500	2000	APHA _{22nd Ed.} 2540-C
4	Total hardness as CaCO ₃	mg/L	164	200	600	APHA _{22nd Ed.} 2340-C
5	Alkalinity	mg/L	97	200	600	APHA _{22nd Ed.} 2320-B
6	Sulphate as SO ₄ ²	mg/L	27.7	200	400	IS:3025(Part-24)
7	Total Suspended Solids	mg/L	ND(DL=5)			APHA _{22nd Ed.} 2540-D
8	Color	Hazen	1	5	15	IS:3025(Part-4)
9	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-5)
10	Turbidity	NTU	0.01	1	5	IS:3025(Part-10)
11	Calcium as Ca	mg/L	40.2	75	200	APHA _{22nd Ed.} 3500 Ca B
12	Magnesium as Mg	mg/L	15.5	30	100	APHA _{22nd Ed.} 3500 Mg B
13	Fluoride	mg/L	ND(DL=0.1)	1.0	1.5	APHA _{22nd Ed.} 4500-F- D
14	Nitrate	mg/L	1.3	45	No Relaxation	APHA _{22nd Ed.} 4500-NO ³⁻ B
15	Conductivity	μS/cm	274			APHA _{22nd Ed} 2510 B
16	Iron	mg/L	ND(DL=0.1)	0.3	No Relaxation	APHA _{22nd Ed} 3111 B

Remarks: Standard Limits as per drinking water specification, IS 10500 (2012)

Where, ND is Not Detected, DL is Detection Limit

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory-SANJEEV KUMAR







An ISO-9001:2008, ISO-14001:2004, OHSAS-18001:2007 Certified Company



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F/5.10.01

Date: 06.05.2017

Report No.: SSWML/LAB/17-18/EM/GW/0207

06.05.2017 Page: 1 of 1

			1 450. 1 01			
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer	Rgd Off Rattan Chand Bui	lding, VPO - Kuleth, Sub Tehsil- Holi, Teh	sil- Barmour,			
Work Order Ref.	Distt. Chamba (H.P.) -1763 P.O. No 4800136418 dtd: 20.04.2017		010517 D 16(a)			
Sample Description	Ground Water	Sample Identification/Code	010517-B-16(n)			
Sampling Location	DAM Site	Date of Sampling	28.04.2017			
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017			
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	06.05.2017			
Quantity Packing, Markings,	Seal: 100 mL, Received in St	erilize glass bottle	. ₩ s z			

Sr. No.	Parameters	Unit	Result	Standard Limits IS:10500:2012		Method Reference
				Desirable Limits	Permissible Limits (In the absence of alternate Source)	-
1	Total Coliform	MPN/100 mL	< 1.8	Shall not be detectable in any 100ml sample		АРНА 9221 В

Remarks:

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

Analysed By

RTI CHAUHAN

Authorized Signatory

SUNIL KATOCH









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/GW/0212

F/5.10.01 Date: 06.05.2017

Page: 1 of 2

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,				
Customer	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	C 1 11 ('C 1' /C 1	010517 W 21(-)		
Sample Description	Ground Water	Sample Identification/Code	010517-W-21(n)		
Sampling Location	GMR Colony	Date of Sampling	29.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	05.05.2017		
Quantity Packing, Markings	s, Seal: 5 L, Received in plastic bottles				

Sr. No.	Parameters	Unit	Result	1001555	idard Limits S :10500	Method Reference
1,0,				Desirable	Permissible Limit	
				Limit	(In the absence of	8
					alternate Source)	
1	pH Value		8.01	6.5-8.5	No Relaxation	APHA _{22nd Ed.} 4500H+-B
2	Chloride as Cl ⁻¹	mg/L	ND(DL=5)	250	1000	APHA _{22nd Ed.} 4500Cl-B
3	Total Dissolve Solids	mg/L	138	500	2000	APHA _{22nd Ed.} 2540-C
4	Total hardness as CaCO ₃	mg/L	125	200	600	APHA _{22nd Ed.} 2340-C
5	Alkalinity	mg/L	75	200	600	APHA _{22nd Ed.} 2320-B
6	Sulphate as SO ₄ ²	mg/L	21.6	200	400	IS:3025(Part-24)
7	Total Suspended Solids	mg/L	ND(DL=5)			APHA _{22nd Ed.} 2540-D
8	Color	Hazen	1	5	15	IS:3025(Part-4)
9	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-5)
10	Turbidity	NTU	0.02	1	5	IS:3025(Part-10)
11	Calcium as Ca	mg/L	24.5	75	200	APHA _{22nd Ed.} 3500 Ca B
12	Magnesium as Mg	mg/L	15.5	30	100	APHA _{22nd Ed.} 3500 Mg B
13	Fluoride	mg/L	ND(DL=0.1)	1.0	1.5	APHA _{22nd Ed.} 4500-F- D
14	Nitrate	mg/L	ND(DL=0.5)	45	No Relaxation	APHA _{22nd Ed.} 4500-NO ³⁻ B
15	Conductivity	μS/cm	176			APHA _{22nd Ed} 2510 B
16	Iron	mg/L	ND(DL=0.1)	0.3	No Relaxation	APHA _{22nd Ed} 3111 B

Remarks: Standard Limits as per drinking water specification, IS 10500 (2012)

Where, ND is Not Detected, DL is Detection Limit

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SANJEEV KUMAR











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F/5.10.01

Page: 1 of 1

Date: 06.05.2017

Report No.: SSWML/LAB/17-18/EM/GW/0213

Name and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer 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 010517-B-22 (n) Sample Description Ground Water

Sampling Location **GMR** Colony Date of Sampling 29.04.2017

Mr. Ashok & Team

Sampling Team Date of Receipt of Sample 01.05.2017 Lab SOP Sampling Protocol Date of Start of Analysis 02.05.2017

Mode of Receipt of Sample Sampled by SSWML Date of Completion of Analysis 06.05.2017

Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle

Sr. No.	Parameters	Unit	Unit Result Standard Limits IS:10500:2012			Method Reference
	-			Desirable Limits	Permissible Limits (In the absence of alternate Source)	
1	Total Coliform	MPN/100 mL	< 1.8	Shall not be detectable in any 100ml sample		АРНА 9221 В

Remarks:

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

ARTI CHAUHAN

SUNIL KATOCH







Website: www.sswml.net



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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/GW/0214

F/5.10.01 Date: 06.05.2017 Page: 1 of 2

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pv	t. Ltd.,	9	
Customer	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		010#1# 333.0#/	
Sample Description	Ground Water	Sample Identification/Code	010517-W-25(n)	
Sampling Location	Power House	Date of Sampling	29.04.2017	
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017	
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017	
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of	05.05.2017	
		Analysis		
Quantity Packing, Markings	s, Seal: 5 L, Received in plastic bottles			

Sr. No.	Parameters	Unit	Result	Standard Limits IS :10500		Method Reference
0.000,000		-		Desirable	Permissible Limit	
				Limit	(In the absence of	1
					alternate Source)	
1	pH Value		7.46	6.5-8.5	No Relaxation	APHA _{22nd Ed.} 4500H+-B
2	Chloride as Cl ⁻¹	mg/L	ND(DL=5)	250	1000	APHA _{22nd Ed.} 4500Cl-B
3	Total Dissolve Solids	mg/L	126	500	2000	APHA _{22nd Ed.} 2540-C
4	Total hardness as CaCO ₃	mg/L	139	200	600	APHA _{22nd Ed.} 2340-C
5	Alkalinity	mg/L	88	200	600	APHA _{22nd Ed.} 2320-B
6	Sulphate as SO ₄ ²	mg/L	24.2	200	400	IS:3025(Part-24)
7	Total Suspended Solids	mg/L	ND(DL=5)			APHA _{22nd Ed.} 2540-D
8	Color	Hazen	1	5	15	IS:3025(Part-4)
9	Odour	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-5)
10	Turbidity	NTU	0.02	1	5	IS:3025(Part-10)
11	Calcium as Ca	mg/L	34.3	75	200	APHA _{22nd Ed.} 3500 Ca B
12	Magnesium as Mg	mg/L	13.0	30	100	APHA _{22nd Ed} .3500 Mg B
13	Fluoride	mg/L	ND(DL=0.1)	1.0	1.5	APHA _{22nd Ed.} 4500-F- D
14	Nitrate	mg/L	1.0	45	No Relaxation	APHA _{22nd Ed.} 4500-NO ³⁻ B
15	Conductivity	μS/cm	258			APHA _{22nd Ed} 2510 B
16	Iron	mg/L	ND(DL=0.1)	0.3	No Relaxation	APHA _{22nd Ed} 3111 B

Remarks: Standard Limits as per drinking water specification, IS 10500 (2012)

Where, ND is Not Detected, DL is Detection Limit

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.

SANJEEV KUMAR

ized Signatory







ANSHUL SHARMA



(LABORATORY DIVISION)

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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/GW/0215

F/5.10.01

Date: 06.05.2017 Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydro	power Pvt. Ltd.,		
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,			
Work Order Ref.	Distt. Chamba (H.P.) -176326 P.O. No 4800136418 dtd: 20.04.2017	Sample Identification/Code	010517 P 26 (m)	
Sample Description	Ground Water	Sample Identification/Code	010517-B-26 (n)	
Sampling Location	Power House	Date of Sampling	29.04.2017	
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017	
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017	
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	06.05.2017	
Quantity Packing Markings	Seal : 100 ml. Received in Steri	ize glass bottle		

Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle

Sr. No.	Parameters	Unit	Result	Standard Limits IS:10500:2012		Method Reference
*				Desirable Limits	Permissible Limits (In the absence of alternate Source)	ć
1	Total Coliform	MPN/100 mL	< 1.8	Shall not be detectable in any 100ml sample		АРНА 9221 В

Remarks:

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For Shivalik Solid Waste Management Ltd.

ARTI CHAUHAN

SUNIL KATOCH









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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0168

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

Name and Address of the

M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer

Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,

Distt. Chamba (H.P.) -176326 P.O. No.- 4800136418 dtd:

Work Order Ref.

Sample Identification/Code

010517-N-11(n)

Sample Description

20.04.2017 Ambient Noise

Sampling Location

DAM Area

Date of Sampling

28.04.2017

Sampling Team

Mr. Ashok & Team

Date of Receipt of Sample

01.05.2017

Sampling Protocol

Lab SOP

Date of Start of Analysis

75

02.05.2017

Mode of Receipt of Sample

Sampled by SSWML

Date of Completion of Analysis

02.05.2017

IS:9989-1981(R-2001)

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	51.4	75	IS:9989-1981(R-2001

51.4

dB(A)

Remarks:

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For Shivalik Solid Waste Management Ltd.

SANJEEV KUMAR









(LABORATORY DIVISION)

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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0171

F/5.10.01

Date: 03.05.2017

Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropow	er Pvt. Ltd.,		
Customer	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:		2	
C. I. D.	20.04.2017	Sample Identification/Code	010517-N-14(n)	
Sample Description	Ambient Noise			
Sampling Location	DAM Crusher	Date of Sampling	28.04.2017	
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017	
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017	

Date of Start of Analysis Mode of Receipt of Sample Sampled by SSWML Date of Completion of Analysis

02.05.2017 Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	69.4	75	IS:9989-1981(R-2001)

Remarks:

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SANJEEV KUMAR







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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0169

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

Name and Address of the

M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer

Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,

Distt. Chamba (H.P.) -176326

P.O. No.- 4800136418 dtd:

Work Order Ref.

20.04.2017

Sample Identification/Code

010517-N-12(n)

Sample Description

Ambient Noise

Sampling Location Sampling Team

Adit-2

Date of Sampling

28.04.2017

Mr. Ashok & Team

Date of Receipt of Sample

01.05.2017

Sampling Protocol

Lab SOP

Date of Start of Analysis

02.05.2017

Mode of Receipt of Sample

Sampled by SSWML

Date of Completion of Analysis

02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	58.0	75	IS:9989-1981(R-2001)

Remarks:

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SANJEEV KUMAR

SANJEEV KUMAR







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TEST CERTIFICATE

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

Report No.: SSWML/LAB/17-18/EM/N/0170

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

010517-N-13(n)

Sample Description

Ambient Noise

Sampling Location

Date of Sampling

28.04.2017

Sampling Team

Adit-3 Mr. Ashok & Team

Date of Receipt of Sample

01.05.2017

Sampling Protocol

Lab SOP

Date of Start of Analysis

02.05.2017

Mode of Receipt of Sample

Sampled by SSWML

Date of Completion of Analysis

02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	56.0	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.







Analysed By SANJEEV KUMAR



(LABORATORY DIVISION)

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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0159

Quantity Packing, Markings, Seal: ----

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropow	er Pvt. Ltd.,	
Customer		VPO - Kuleth, Sub Tehsil- Holi, Teh	sil- Barmour,
	Distt. Chamba (H.P.) -176326	a	auther the sandressendents
Work Order Ref.	P.O. No 4800136418 dtd:		
Samuel Daniel	20.04.2017	Sample Identification/Code	010517-N-02(n)
Sample Description	Ambient Noise		
Sampling Location	GMR Colony	Date of Sampling	27.04.2017
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	02.05.2017

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	58.3	75	IS:9989-1981(R-2001)

Remarks:

SANJEEV KUMAR

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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.

Authorized Signatory
SANJEEV KUMAR









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0164

F/5.10.01

Date: 03.05.2017 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	010517-N-07(n)	
Sample Description	Ambient Noise		01031711 07(11)	
Sampling Location	Gammon Work Shop	Date of Sampling	27.04.2017	
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017	

Sampling Team Mr. Ashok & Team Date of Receipt of Sample 01.05.2017
Sampling Protocol Lab SOP Date of Start of Analysis 02.05.2017

Mode of Receipt of Sample Sampled by SSWML Date of Completion of Analysis 02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	59.3	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.

SANJEEV KUMAR

Authorized Signatory
SANJEEV KUMAR







Website: www.sswml.net



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TEST CERTIFICATE

F/5.10.01

Date: 03.05.2017

Page: 1 of 1

Report No.: SSWML/LAB/17-18/EM/N/0174

Name and Address of the

M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer

Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,

Distt. Chamba (H.P.) -176326

P.O. No.- 4800136418 dtd:

Work Order Ref.

20.04.2017

Sample Identification/Code

010517-N-31(n)

Sample Description

Ambient Noise

Sampling Location

Adit-4

Date of Sampling

29.04.2017

Sampling Team

Mr. Ashok & Team

Date of Receipt of Sample

01.05.2017

Sampling Protocol

Lab SOP

Date of Start of Analysis

02.05.2017

Mode of Receipt of Sample

Sampled by SSWML

Date of Completion of Analysis

02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	61.5	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.













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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0175

F/5.10.01

Date: 03.05.2017 Page: 1 of 1

M/s GMR Bajoli Holi Hydropower Pvt. Ltd., Name and Address of the

Customer

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:

Sample Identification/Code

010517-N-32(n)

Sample Description

20.04.2017 Ambient Noise

Sampling Location

Adit-5

Date of Sampling

29.04.2017

Sampling Team

Mr. Ashok & Team

Date of Receipt of Sample

01.05.2017

Sampling Protocol

Lab SOP

Date of Start of Analysis

02.05.2017

Mode of Receipt of Sample

SANJEEV KUMAR

Sampled by SSWML

Date of Completion of Analysis

02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	56.0	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.









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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0163

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,			
Customer	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	010517-N-06(n)	
Sample Description	Ambient Noise	Sample rachimeation/Code	010317-11-00(11)	
Sampling Location	Kuleth Crusher	Date of Sampling	27.04.2017	
	50.00 (Medical Anti-Apage Of the Control And Anti-Apage Of the Control A	and or annipmig	27.01.2017	
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017	

Sampling TeamMr. Ashok & TeamDate of Receipt of Sample01.05.2017Sampling ProtocolLab SOPDate of Start of Analysis02.05.2017Mode of Receipt of SampleSampled by SSWMLDate of Completion of Analysis02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	52.9	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.

Analysed By
SANJEEV KUMAR











(LABORATORY DIVISION)

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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0162

Quantity Packing, Markings, Seal: ----

F/5.10.01 Date: 03.05.2017

Page: 1 of 1

			rage. I of I
Name and Address of the	M/s GMR Bajoli Holi Hydropov	ver Pvt. Ltd.,	
Customer		VPO - Kuleth, Sub Tehsil- Holi, Teh	sil- Barmour.
2	Distt. Chamba (H.P.) -176326	,	,
Work Order Ref.	P.O. No 4800136418 dtd:		
Sample Description	20.04.2017 Ambient Noise	Sample Identification/Code	010517-N-05(n)
Sample Description	Ambient Noise		
Sampling Location	Power House	Date of Sampling	27.04.2017
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	02.05.2017

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	59.6	75	IS:9989-1981(R-2001)

Remarks:

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For Shivalik Solid Waste Management Ltd.

SANJEEV KUMAR









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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/N/0176

F/5.10.01

Date: 03.05.2017

Page: 1 of 1

Name and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer

Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,

Distt. Chamba (H.P.) -176326

P.O. No.- 4800136418 dtd: Work Order Ref.

20.04.2017 Sample Identification/Code 010517-N-33(n) Sample Description Ambient Noise

Adit-6 Sampling Location Date of Sampling 29.04.2017

Sampling Team Mr. Ashok & Team Date of Receipt of Sample 01.05.2017

Sampling Protocol Lab SOP Date of Start of Analysis 02.05.2017

Date of Completion of Analysis Mode of Receipt of Sample Sampled by SSWML 02.05.2017 Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	73.0	75	IS:9989-1981(R-2001)

Remarks:

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Report No.: SSWML/LAB/17-18/EM/N/0177

F/5.10.01

Page: 1 of 1

Date: 03.05.2017

Name and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer

Rgd Off.- Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,

Distt. Chamba (H.P.) -176326

P.O. No.- 4800136418 dtd: Work Order Ref.

20.04.2017 Sample Identification/Code 010517-N-34(n)

Sample Description Ambient Noise

Sampling Location Sugar Shaft Date of Sampling 29.04.2017

Sampling Team Mr. Ashok & Team Date of Receipt of Sample 01.05.2017 Sampling Protocol Lab SOP Date of Start of Analysis 02.05.2017

Mode of Receipt of Sample Sampled by SSWML Date of Completion of Analysis 02.05.2017

Quantity Packing, Markings, Seal: ----

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Noise (Day Time)	dB (A)	57.3	75	IS:9989-1981(R-2001)

Remarks:

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Report No.: SSWML/LAB/17-18/EM/SW/0208

F/5.10.01 Date: 06.05.2017

Page : 1 of 1

			1 ago . 1 01		
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,				
Customer	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 010517-W-17(i				
Sample Description	River Water				
Sampling Location	DAM Upstream	Date of Sampling	28.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	05.05.2017		

Quantity Packing, Markings, Seal: 5L, Received in plastic bottles

Sr. '	Parameters	Unit	Result	Standard Limits	Method Reference
1	рН		7.68		APHA _{22nd Ed.} 4500H+-B
2	Total Suspended Solids	mg/L	ND(DL=5)		APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	82		APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	ND(DL=4)		APHA _{22nd Ed.} 5220 B
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	ND(DL=5)		IS:3025 Part-44
6	Oil & Grease	mg/L	ND(DL=1.0)		APHA _{22nd Ed.} 5520 -B
7	Iron as Fe	mg/L	ND(DL=0.1)		APHA _{22nd Ed.} 3111-B
8	Color	Hazen	1		IS:3025(Part-4)
9	Odour	Agreeable	Agreeable		IS:3025(Part-5)
10	Turbidity	NTU	0.01		IS:3025(Part-10)

Remarks: -

Where, ND is Not Detected, DL is Detection Limit

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SANJEEV KUMAR











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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0209

F/5.10.01 Date: 06.05.2017

Page: 1 of 1

			1 450 . 1 01			
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer	Rgd Off Rattan Chand Bu	ilding, VPO - Kuleth, Sub Tehsil- Holi,	Tehsil- Barmour,			
	Distt. Chamba (H.P.) -176		5 W			
Work Order Ref.	P.O. No 4800136418 dtd:					
	20.04.2017	Sample Identification/Code	010517-B-18(n)			
Sample Description	River Water					
Sampling Location	DAM Upstream	Date of Sampling	28.04.2017			
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017			
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	06.05.2017			

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Total Coliform	MPN/100 mL	< 1.8		APHA 9221 B

Remarks: -

Terms and conditions governing the test report issued

Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SUNIL KATOCH

Analysed By
ARTI CHAUHAN







Website: www.sswml.net



(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0210

F/5.10.01 Date: 06.05.2017 Page : 1 of 1

			rage . ror		
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,				
Customer		Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,			
Work Order Ref.	Distt. Chamba (H.P.) -176326 P.O. No 4800136418 dtd: 20.04.2017 Sample Identification/Code 010517-W-19(n)				
Sample Description	River Water	Sample Identification/Code	010317-W-19(II)		
Sampling Location	DAM Down Stream	Date of Sampling	28.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	05.05.2017		
Quantity Packing, Markings, So	eal: 5L, Received in plastic bo	ittles			

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	рН		7.99		APHA _{22nd Ed.} 4500H+-B
2 ,	Total Suspended Solids	mg/L	ND(DL=5)		APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	74		APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	ND(DL=4)		$APHA_{22nd\;Ed.}5220\;\mathrm{B}$
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	ND(DL=5)		IS:3025 Part-44
6	Oil & Grease	mg/L	ND(DL=1.0)		APHA _{22nd Ed.} 5520 -B
7	Iron as Fe	mg/L	0.106		APHA _{22nd Ed.} 3111-B
8	Color	Hazen	1		IS:3025(Part-4)
9	Odour	Agreeable	Agreeable		IS:3025(Part-5)
10	Turbidity	NTU	0.01		IS:3025(Part-10)

Remarks: -

Where, ND is Not Detected, DL is Detection Limit

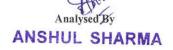
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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SANJEEV KUMAR











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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0211

F/5.10.01 Date: 06.05.2017

Page: 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,					
Customer		ãgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,				
Work Order Ref.	Distt. Chamba (H.P.) -176326 P.O. No 4800136418 dtd: 20.04.2017 Sample Identification/Code 010517-B-20(n)					
Sample Description	River Water	er 010317-B-20(II)				
Sampling Location	DAM Down Stream	Date of Sampling	28.04.2017			
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	02.05.2017			
Mode of Receipt of Sample	Sampled by SSWML Date of Completion of Analysis 06.05.2017					
Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle						

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Total Coliform	MPN/100 mL	17		APHA 9221 B

Remarks: -

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For Shivalik Solid Waste Management Ltd.

ARTI CHAUHAN

Authorized Signatory
SUNIL KATOCH









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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0216

F/5.10.01 Date: 06.05.2017

	(X		Page: 1 of		
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,				
Customer	Rgd Off Rattan Chand Buildin Distt. Chamba (H.P.) -176326	Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour, Distt. Chamba (H.P.) -176326			
Work Order Ref. Sample Description	P.O. No 4800136418 dtd: 20.04.2017 Sample Identification/Code 010517-W-27 (n) River Water				
Sampling Location	Upstream Power House	Date of Sampling	29.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	05.05.2017		
Quantity Packing, Markings, Seal: 5L, Received in plastic bottles					

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	рН		7.86		APHA _{22nd Ed.} 4500H+-B
2	Total Suspended Solids	mg/L	ND(DL=5)		APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	78		APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	ND(DL=4)		APHA _{22nd Ed.} 5220 B
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	ND(DL=5)		IS:3025 Part-44
6	Oil & Grease	mg/L	ND(DL=1.0)		APHA _{22nd Ed.} 5520 -B
7	Iron as Fe	mg/L	ND(DL=0.1)		APHA _{22nd Ed.} 3111-B
8	Color	Hazen	1		IS:3025(Part-4)
9	Odour	Agreeable	Agreeable		IS:3025(Part-5)
10	Turbidity	NTU	0.01		IS:3025(Part-10)

Remarks: -

Where, ND is Not Detected, DL is Detection Limit

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For Shivalik Solid Waste Management Ltd.









ANSHUL SHARMA



(LABORATORY DIVISION)

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TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0217

F/5.10.01 Date: 06.05.2017 Page : 1 of 1

Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,				
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour,				
Work Order Ref.	Distt. Chamba (H.P.) -176326 P.O. No 4800136418 dtd: 20.04.2017				
Sample Description	River Water	Sample Identification/Code	010517-B-28 (n)		
Sampling Location	Upstream Power House	Date of Sampling	29.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP Date of Start of Analysis 02,05,2017.				
Mode of Receipt of Sample	Sampled by SSWML Date of Completion of Analysis 06.05.2017				

Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Total Coliform	MPN/100 mL	23		АРНА 9221 В

Remarks: -

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SUNIL KATOCH

ARTI CHAUHAN









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/SW/0218

F/5.10.01 Date: 06.05.2017

	==1		Page :1 o		
Name and Address of the	M/s GMR Bajoli Holi Hydrop	ower Pvt. Ltd.,			
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth, Sub Tehsil- Holi, Tehsil- Barmour, Distt. Chamba (H.P.) -176326				
Work Order Ref. Sample Description	P.O. No 4800136418 dtd: 20.04.2017 River Water	Sample Identification/Code	010517-W-29 (n)		
Sampling Location	Down Stream Power House	Date of Sampling	29.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	05.05.2017		
Quantity Packing, Markings, Se	eal: 5L, Received in plastic bottles				

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	рН		7.81		APHA _{22nd Ed.} 4500H+-B
2	Total Suspended Solids	mg/L	ND(DL=5)		APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	74		APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	ND(DL=4)		APHA _{22nd Ed.} 5220 B
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	ND(DL=5)		IS:3025 Part-44
6	Oil & Grease	mg/L	ND(DL=1.0)		APHA _{22nd Ed.} 5520 -B
7	Iron as Fe	mg/L	ND(DL=0.1)		APHA _{22nd Ed.} 3111-B
8	Color	Hazen	1		IS:3025(Part-4)
9	Odour	Agreeable	Agreeable		IS:3025(Part-5)
10	Turbidity	NTU	0.01		IS:3025(Part-10)

Remarks: -

Where, ND is Not Detected, DL is Detection Limit

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For Shivalik Solid Waste Management Ltd.

Authorized Signatory
SANJEEV KUMAR

Analysed By
ANSHUL SHARMA









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh - 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

F/5.10.01

Date: 06.05.2017

Page: 1 of 1

Report No.: SSWML/LAB/17-18/EM/SW/0219

Name and Address of the M/s GMR Bajoli Holi Hydropower Pvt. Ltd.,

Customer 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 010517-B-30 (n)

River Water Sample Description

Down Stream Power House Sampling Location Date of Sampling 29.04.2017

Mr. Ashok & Team Date of Receipt of Sample Sampling Team

01.05.2017

Sampling Protocol Lab SOP Date of Start of Analysis 02.05.2017 Sampled by SSWML Date of Completion of Analysis Mode of Receipt of Sample 06.05.2017

Quantity Packing, Markings, Seal: 100 mL, Received in Sterilize glass bottle

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	Total Coliform	MPN/100 mL	70		АРНА 9221 В

Remarks: -

ARTI CHAUHAN

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For Shivalik Solid Waste Management Ltd.

SUNIL KATOCH







Website: www.sswml.net



(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/WW/0178

F/5.10.01 Date: 04.05.2017 Page : 1 of 1

			0			
Name and Address of the	M/s GMR Bajoli Holi Hydropower Pvt. Ltd ,					
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth,					
	Sub Tehsil- Holi, Tehsil- Barmour, Chamba (H.P.) -176326					
Work Order Ref.	P.O.No4800136418 dtd:					
	20.04.2017	Sample Identification/Code	010517-E-01			
Sample Description	Waste Water	Vaste Water				
Sampling Location	STP Outlet GMR	Date of Sampling	29.04.2017			
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017			
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017			
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	04.05.2017			
Quantity Packing Markings	Seal: 5 L. Received in plastic	bottles				

Quantity Packing, Markings, Seal: 5 L, Received in plastic bottles

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
· 1	pH		7.56	5.5-9.5	APHA _{22nd Ed.} 4500H+-B
2	Total Suspended Solids	mg/L	5	100	APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	382	2100	APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	19	250	APHA _{22nd Ed.} 5220 B
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	4	30	IS:3025 Part-44
6	Oil & Grease	mg/L	ND(DL=1.0)	10	APHA _{22nd Ed.} 5520 -B

Remarks: - Standard Limits* are General Standards* for Discharge of Environmental Pollutants on Inland Surface Water:

Where, ND is Not Detected, DL is Detection Limit

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For Shivalik Solid Waste Management Ltd.

Analysed By
ANSHUL SHARMA









(LABORATORY DIVISION)

Regd. Office: Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101 CIN:U33130HP2005PLC028806 Telefax: 01795-260427, E-mail: rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No.: SSWML/LAB/17-18/EM/WW/0179

F/5.10.01 Date: 04.05.2017

			Page: 1 of 1		
Name and Address of the	M/s GMR Bajoli Holi Hyd	ropower Pvt. Ltd ,			
Customer	Rgd Off Rattan Chand Building, VPO - Kuleth,				
	Sub Tehsil- Holi, Tehsil- B	armour, Chamba (H.P.) -176326			
Work Order Ref. Sample Description	P.O.No4800136418 dtd: 20.04.2017 Waste Water	Sample Identification/Code	010517-E-02		
Sampling Location	STP Outlet Gammon	Date of Sampling	29.04.2017		
Sampling Team	Mr. Ashok & Team	Date of Receipt of Sample	01.05.2017		
Sampling Protocol	Lab SOP	Date of Start of Analysis	01.05.2017		
Mode of Receipt of Sample	Sampled by SSWML	Date of Completion of Analysis	04.05.2017		
Quantity Packing, Markings	. Seal: 5 L. Received in plastic	c bottles			

Sr. No.	Parameters	Unit	Result	Standard Limits	Method Reference
1	рН		7.57	5.5-9.5	APHA _{22nd Ed.} 4500H+-B
2	Total Suspended Solids	mg/L	7	100	APHA _{22nd Ed} .2540-D
3	Total Dissolved Solids	mg/L	162	2100	APHA _{22nd Ed.} 2540-C
4	Chemical Oxygen Demand	mg/L	15	250	APHA _{22nd Ed.} 5220 B
5	Biochemical Oxygen Demand at 27 °C for 3 Days	mg/L	4	30	IS:3025 Part-44
, 6	Oil & Grease	mg/L	ND(DL=1.0)	10	APHA _{22nd Ed.} 5520 -B

Remarks: - Standard Limits* are General Standards* for Discharge of Environmental Pollutants on Inland Surface Water.

Where, ND is Not Detected, DL is Detection Limit

Terms and conditions governing the test report issued

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For Shivalik Solid Waste Management Ltd.











Website: www.sswml.net



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Sample ID:46480 - Analysis Completion:19/05/2017

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

Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW] / LAB Inward : 6189

TEST REPORT

Test Report No.: 6189 Date: 19/05/2017

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, Di

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 : 46480

7. Date & Time of Collection & Inwarding : 04/05/2017, (1000 to 1000) & 05/05/2017

8. Date of Start & Completion of Analysis : 05/05/2017 & 19/05/2017

9. Sampling Point : Sewage Treatment Plants ~ Final Outlet of STP (GMR Colony)

10. Flow Details (Remarks): STP11. Mode of Disposal: STP12. Ultimate Receiving Body: ravi

13. Temperature on Collection : ---- & pH Range on pH Strip :6-8
14. Carboys Nos for : (1) & 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	Suspended Solids	-	-	-	4.0 mg/l
2	Biochemical Oxygen Demand (BOD)	-		-	3.0 mg/l
3	COD	-	-	-	24.0 mg/l
4	Oil and Grease	-	-	-	Nil
5	рН	-	-	-	7.56

<u>Laboratory Remarks</u>: EMP project sample. All the parameters are within limit. By:22-lab_22 Dt.:

19/05/2017

Dr. Ramakant Awasthi,SO

Field Observation: the stp was operative

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

N I C