



**HIMACHAL PRADESH POWER CORPORATION LIMITED**  
**(A STATE GOVERNMENT UNDERTAKING)**

Office of General Manager  
Ravi & Chenab Projects,  
HPPCL, Sundla, Distt. Chamba (H.P.)-176312  
Phone & Fax No. 01896-242042, e-mail:- [gmrep12@gmail.com](mailto:gmrep12@gmail.com)

No. HPPCL/GM/RCP/G-8/2026- 113-118

Dated: 23-04-2026

To

Deputy Inspector General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Sub Office, Shimla, C.G.O. Complex, Shivalik Block,  
Longwood, Shimla – 171001  
e-mail : [iro.shimla-mefcc@gov.in](mailto:iro.shimla-mefcc@gov.in)

**Sub: Chanju-III (48MW) HEP in Churah Tehsil of Distt.Chamba (H.P) by HPPCL Environment clearance –regarding Six monthly progress report.**

**Ref: EC letter No. NC-RO/ENV/HEP/HP/02/2017/1484, Dated 23.10.2018.**

Sir,

As requisioned vide letter under reference on the subject cited above, the point-wise six monthly progress report for the period 1.10.2025 to 31.03.2026 is being submitted as under please:

Sr. No.	Part-A- Specific Conditions	Reply
<b>I- Construction Phase:</b>		
1.	"Consent to Establish" shall be obtained from H.P. State Pollution Control Board under Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981 a copy of same shall be submitted to State Environment impact Assessment Authority (SEIAA) before start of any construction work at the site.	Consent to Establish from HPSPCB have been taken and is being renewed yearly. Online payment of CTE renewal fee for FY 2026-27 has been made vide Receipt No. 260331264897306 dated 31.03.2026. Application No. 18669273. Total amount paid Rs. 2,00,010/- (CTE Both). Transaction status: Successfully Completed. Online payment receipt is appended as <b>Annexure-I</b> .
2.	Provisions shall be made for the housing of labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The labour have been provided with labour colony and is also residing in hired buildings with proper drinking and sanitation facility. The accomodations have been provided with fuel i.e. LPG. Sanitation facilities have been provided at different adit locations and powerhouse sites. Sanitation facility photographs are appended as part of <b>Annexure-II</b> . The temporary structures will be removed after the completion of the project.
3.	All required sanitary and hygienic measures should be taken before, during and after the completion of project.	Proper solid waste management is being implemented at site. Solid waste collection bins have been placed at site. Two separate vendors have been engaged by Package II contractor for bio-medical waste and solid/hazardous waste disposal. Package I contractor has also been directed for similar arrangements ( <b>Annexure-III</b> ). Sanitation facilities have been provided at all adit locations and powerhouse sites. Sanitary and hygienic measures are being



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		implemented during the construction phase and will continue post-completion.
4.	A First Aid Room will be provided in the project both during construction and operation phase of the project.	Two First Aid Rooms have been provided in the project. First aid facilities including first aid kits are available at all site locations (Intake and Power House). Ambulances have been deployed at both Intake and Power House sites and are equipped with basic life-saving equipment (oxygen, IV, BP Machine, stretcher etc.). Deployment of a dedicated doctor by the contractor is in the final phase and will be completed shortly. HPPCL E&S Officers are conducting routine inspections at site ( <b>Annexure-IV</b> ).
5.	Adequate arrangements for safe disposal of waste water and solid waste generated during the construction phase shall be ensured.	Proper solid waste management is being implemented at site. Solid waste collection bins have been placed at site. Two separate authorized vendors have been engaged by Package II contractor for bio-medical waste and solid/hazardous waste disposal. Medical waste collection and sanitation facilities are in place. Safe disposal of waste water is being ensured ( <b>Annexure-III</b> ).
6.	All the top soil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Agreed.
7.	Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and disposed-off taking the necessary precautions for general safety and health aspects of public, only in approved sites with the approval of competent authority.	Muck is being disposed off in designated dumping sites only. Protection measures with suitable retaining structures have been implemented at the following dumping yards: Dumping Yard 1 (retaining wall under construction), Dumping Yard 2, Dumping Yard 4 (landslide observed; being addressed), Dumping Yard 5 (dumping within diverted forest land, no muck spilling observed), Dumping Yard 6, Dumping Yard 7 (forebay wire crate work in progress as on 13.01.2026) and Dumping Yard 9 (retaining structure in place). Photographs of all dumping sites are appended as <b>Annexure V</b> .
8.	Soil and ground water samples shall be got tested from authorized agency to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Monthly Environment Monitoring Sampling is being done regularly. Field/lab tests are being conducted regularly for ground water, surface water, drinking water and soil to ensure no contamination from heavy metals or toxic contaminants ( <b>Annexure-VI</b> ).
9.	Construction spoils including bituminous material and other hazardous materials including oil from construction equipments must not be allowed to contaminate water	Hazardous waste including used oil from construction equipment is being disposed off to authorized vendors. Package II contractor has engaged two separate vendors for bio-



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	courses and the dump sites for such material must be secured so that they should not leach into the ground water . if necessary , oil trap should be installed where there is deployment of heavy machineries	medical waste and solid/hazardous waste disposal. Package I contractor has been similarly directed. Hazardous waste disposal agreements are in place ( <b>Annexure VII</b> ).
10.	Any hazards waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the competent authority.	Hazardous waste including bio-medical waste is being disposed off to authorized vendors as per applicable rules and norms. Bio-medical waste and solid/hazardous waste disposal agreements are in place for Package II. Package I contractor is being directed for the same ( <b>Annexure VII</b> ).
11.	Diesel generator sets during construction phase should have acoustic enclosures and should conform to Environment ( Protection ) Act, 1986 and Rules framed there under four air and noise emission standards . Low sulphur diesel type should be used .	DG Sets have been provided with acoustic enclosures. Air emissions from DG sets are being regularly monitored. Noise levels of DG sets are also being regularly monitored. Monthly Environment Monitoring Sampling is being done ( <b>Annexure-VI</b> ).
12.	The diesel required for operating DG set shall be stored in under tanks and if required, clearance from Chief Controller of Implosives shall be taken .	Agreed. Clearance from Chief Controller of Implosives shall be taken
13.	Vehicles/ Equipment deployed construction phase should be in good condition and should confirm to applicable air and noise emission standards, should have vehicle pollution check certificate and should be operated only during non-peaking hours.	Vehicles and equipment used during construction phase are being maintained in good condition and are meeting air/noise emission standards. PUC is being taken regularly. Regular monitoring is being done at site to ensure compliance. Safety equipment and operational protocols are being strictly followed.
14.	Ambient noise levels should confirm to residential standards both during day and night. Only limited necessary construction should be done during night time. Fortnightly monitoring of ambient air quality (SPM, SO <sub>2</sub> and NO <sub>x</sub> ) and equivalent noise levels should be ensured during construction phase should be closely monitored during construction phase so as to confirm to the stipulated standards fixed by the competent authority .	Monthly Environment Monitoring Sampling is being done regularly. Ambient noise levels and ambient air quality (SPM, SO <sub>2</sub> , NO <sub>x</sub> ) are being regularly monitored. Noise levels for DG sets and air emissions from DG sets are also being monitored separately. Annual Environment Audit at Power House site was conducted in February 2026. Environment Monitoring at Intake Site is also being undertaken ( <b>Annexure-VI</b> ).
15.	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September , 1999 & 2003 in case the project site false within 100 Km distance of Thermal Power Stations .	Agreed
16	Use of Ready- Mix concrete is recommended for this project.	Agreed.
17.	Water demand during construction should be reduced by use of pre – mixed concrete, curing agents and other best practices and technologies available.	Agreed
18	The approval of Competent Authority shall be	Agreed



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	obtained for structure safety of the buildings due to earthquake , adequacy of fire fighting requirements etc as per National Building Code including Protection measures from lighting etc.	
19.	Regular supervisions of the above and other measure for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Agreed
20.	The proponent shall be liable for action under the Environment (Protection) Act, 1986 for the violation of any provision of the said Act.	Agreed
<b>II</b>	<b>Operational Phase</b>	
1.	“Consent to Operate” shall be obtained from H.P. State Pollution Control Board under Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981 a copy of same shall be submitted to State Environment impact Assessment Authority (SEIAA) before start of any construction work at the site.	Will be taken up during commencement of operational phase.
2.	The Installation of the Effluent Treatment Plant /Sewage Treatment plan (STP) Should be certified by as independent expert and report in this regard should be submitted to the Member Secretary ,HPSEIAA- cum- Director , Department of Environment , Science & Technology before the project is commissioned for operation . Treated effluent emanating from STP shall be recycled /reused to the maximum extent possible. Treatment off 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shah confirm to the norms and standards prescribed .Necessary measures should be made to mitigate the odour problem from STP.	Will be taken up during commencement of operational phase.
3.	The solid waste generated should be properly collected and segregated . Wet garbage should be composted and dry /inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable materials .	Will be taken up during commencement of operational phase.
4.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be enclosed type and confirmed to rules made under the Environment (Protection ) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity for all proposed DG sets .The proponent shall be required to use low sulphur diesel .The location of the DG sets may be decided in consultation with the	Will be taken up during commencement of operational phase.



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	competent authority .	
5.	Noise should be controlled to ensure that it does not exceed the prescribed standards .During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply the with the prevalent regulations.	Will be taken up during commencement of operational phase.
6.	Necessary arrangements for rain water harvesting for roof run – off and surface run – off should be made.	Will be taken up during commencement of operational phase.
7.	Traffic congestion near the entry and exit polls from the roads adjoining proposed projects sites must be avoided . parking should be fully internalized as per norms prescribed by the Competent Authority and no public space should be used for this purpose.	Will be taken up during commencement of operational phase.
8.	A report on the energy conservation measures confirming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technologies, R & U Factors etc. and submitted to the SEIAA.	Will be taken up during commencement of operational phase.
9.	Energy conservation measures like installation of CFLs/TFLs for the lighting the surrounding areas/outside areas the building should be integral part of the project design and should be in place before project commissioning. Used CFLs/TFLs should be properly collected and disposed of/ sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the possible extent.	Will be taken up during commencement of operational phase.
10.	Adequate steps should be taken to prevent odour problem from solid based processing site and STP.	Will be taken up during commencement of operational phase.
11.	Stripling of water etc. be use for air pollution control during construction phase so as to avoid disturbance to the surroundings.	Will be taken up during commencement of operational phase.
<b>Part- B</b>	<b>General Conditions:</b>	
1.	The environmental safe guards contained/given in the proposal for management of environmental pollution should be implemented in letter and spirit.	Environmental safe guards contained/given in the proposal for management of environmental pollution are being implemented in letter and spirit. HPPCL has constituted a dedicated team of 7 safety officers at site. All site in-charges have been directed to strictly implement and monitor all E&S safety protocols. 1 no. Dy. Manager (Environment) has already been deployed by HPPCL. Regular field/lab tests for ground water, surface water, drinking water, ambient noise, DG set noise, DG set air emissions,



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		ambient air and soil are being conducted. Annual Environment Audit for Package II was conducted in February 2026.
2.	Bio-monthly Environment Monitoring Reports should be submitted to the SEIAA and MoEF & CC, Regional Office at Dehradun.	Bio-monthly Environment Monitoring Reports will be submitted to competent authorities.
3.	Officials from the State Environment Impact Assessment Authority, Regional Office of MoEF, Dehradun and Department of Environment science and technology GoHP who would be monitoring the implementation of environmental safe guards should be given full co-operation, facilities and documents/data by the project proponents during their inspection.	Full co-operation is being given to the authorities.
4.	A complete set of all the documents submitted to the State Authority Should be forwarded to the Regional Office of MoEF, Dehradun complete set of all the documents submitted to the State Authority should be forwarded to the Regional Office of MoEF and CC, Dehradun.	All relevant documents submitted to the State Authority are being/will be forwarded to the Regional Office of MoEF & CC, Dehradun. Needful is being done.
5.	In the case of any change(S) in the scope of the project, the project would required a fresh appraisal by this Authority.	Agreed
6.	The SEIAA reserves right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safe guards and measures in a time bound and satisfactory manner.	Agreed
7.	All other statutory clearances shall be obtained, as applicable by the project proponents.	Statutory clearance such as Forest Clearance, Environment Clearance for installation of Materiel ropeways for the construction of the project, TEC have been obtained from competent authorities
8.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and Environment Impact Assessment Notification, 2006.	Agreed
9.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Agreed
<b>Part-C</b>	<b>Special Conditions:</b>	



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1.	The Project Proponents shall release 15% minimum water discharge as per State Government policy. The Project Proponent would also install online flow measurement instruments for measuring discharge.	Agreed. Project Proponents shall release 15% minimum water discharge as per State Government policy. The Project Proponent will also install online flow measurement instruments for measuring discharge.
2.	The Project Proponent shall carry out and submit study on Ecological Flows w.r.t. release of water for maintenance of ecological needs for the D/S affected areas of the project within one year period. The Project Proponent would also regulate minimum release of water based on the study but it would not be less than Government of Himachal Pradesh Policy.	Agreed.
3.	The Project Proponent shall not allow the workers for extraction of fuel wood from nearby by forest land area.	No fuelwood from nearby forest area will be allowed. Contractor will supply LPG for the workers.
4.	The Project Proponent shall regularly monitor their carbon footprints and would strive to be carbon neutral the carbon balance sheet be submitted to authority from time to time.	Agreed.
5.	It shall be responsibility of the Project Proponent to obtain all the requisite approvals/clearances/NOCs as may be applicable to the project from competent authorities under different Acts/Rules/Regulations/Order etc.	Agreed. Project Proponents will obtain all the requisite approvals/clearances/NOCs.
6.	The construction material such as griet/Bajri, sand shall be obtained from the competent authorized dealers/suppliers only and no illegal mining etc. shall be caused/resorted to.	Agreed
7.	The Project Proponent shall not undertake any tree felling without statutory clearance under Forest Conservation Act, 1980 from MoEF & CC, GOI and the tree felling shall be done by the HP State Forest Corporation as per the set procedure/guidelines.	Felling of trees will be done by HP Forest Corporation only after the demarcation of the forest land which is coming under the proposed project by Revenue and forest officials.
8.	The lying of transmission lines shall not be part of present Environment Clearance.	Agreed
9.	The project authorities shall increase the height of retaining structures by at least 1-2 mts. above to filled/dumping line by ensuring the sustainability of retaining structure Engineering i.e. horizontal and vertical stability point of the as well. The angle of reports shall not exceed 30 degrees.	Height of retaining structures is being raised to at least 1-2 mts. above the filled/dumping line, ensuring horizontal and vertical stability. Retaining structures at all dumping yards are being constructed/upgraded accordingly. Angle of repose is being maintained within 30 degrees. Photographs of retaining structures at Dumping Yards 1, 5, 6, 7 and 9 are appended as Annexure V.
10.	No muck disposable sites shall be located near the river/Nallah bank and shall maintain a vertical distance of more than 10 mts. from river bank. The project proponent shall submit	All muck disposal sites have been located away from river/nallah banks maintaining the required vertical distance of more than 10 mts. from the river bank. An affidavit to this



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	an affidavit to this account.	effect will be submitted to the competent authority.
11.	The project proponent shall raise the muck retaining walls on muck disposable sites before start of dumping in those sites.	Agreed. All dumping sites will be developed before dumping.
12.	The project proponent shall submit the details on quantum of generation of muck on monthly basis, its reuse and dumped, on a proper format for all the approved sites separately during construction phase.	Agreed. The project proponent will submit the details on quantum of generation of muck on monthly basis, its reuse and dumped, on a proper format for all the approved sites separately during construction phase.
13.	The project proponent shall also ensure that the reclamation works are under taken immediately after the complete filling of the muck disposable site.	Agreed.
14.	It shall be ensured that disposable of muck including excavated material during construction phase shall not create any adverse effects on the neighboring communities and it would be disposed off only after taking the necessary precautions for general safety and health aspects of public.	Muck disposal is being carried out only in designated dumping sites to prevent adverse effects on neighbouring communities. Retaining structures with adequate height have been provided at all dumping yards. Warning signboards have been placed at different site locations. Safety measures including helmets, safety shoes, gloves and vests are being provided to all workers. Monthly safety drills are being conducted. HPPCL E&S Officers carry out regular inspections to ensure general safety and health aspects of public are protected.
15.	All the topsoil excavated during construction activities shall be stored for use in reclamation works, horticulture, landscape development etc. within the project site.	Agreed
16.	The project proponent shall develop the muck dumping areas as village utility areas.	Reclamation and development of muck dumping areas as village utility areas will be undertaken after filling is complete. All dumping sites are being managed with proper retaining structures as shown in Annexure V.
17.	The diesel generators sets during construction phase shall have proper acoustic enclosures and should conform to the provisions of Environment (Protection) Act, 1986 and Rules framed there under for air and noise emission standards. The low sulphur grade diesel would be used for DG sets.	Necessary measures will be taken into consideration.
18.	The developer shall ensure that the vehicles/equipment deployed during construction phase are in good condition and conform to air and noise emission standards and should have vehicle pollution check certificate from authorized agency.	Proper monitoring of vehicles and equipment is being carried out from time to time. Vehicles and equipment deployed during construction phase are being maintained in good condition. Regular checks are being done to ensure conformance to air and noise emission standards. PUC certificates from authorized agencies are being obtained for all



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		vehicles.
19.	The traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided the developer shall ensure that parking is fully internalized as per norms prescribed by the competent authority and no public space is used for this purpose.	Traffic management near entry and exit points of the project site is being ensured. Vehicles are being deployed in a planned manner to avoid congestion on approach roads. No public space is being used for parking. Vehicles used at site conform to applicable emission standards and possess valid PUC certificates.
20.	It shall be responsibility of project proponent to ensure that the qualitative and quantitative aspects of CAT plan implementation are achieved and documented and to also ensure that CAT plan addresses the issue associated w.r.t. D/S affected areas as well.	Exemption from making CAT Plan has been accorded by HP Govt. Project proponents have deposited 2.5% of the total project cost as CAT Plan cost. Comprehensive CAT Plan Ravi basin by Forest Deptt. Is being implemented.
21.	It is also advised that Bio-Engineering aspects may also be incorporated/exercised during the implementation of the CAT plan.	NA in view of submission made in Sr. NO.20 above.
22.	t disposable from de-silting chambers shall be addressed adequately. No silt flushing shall be done during the lean season.	-
23.	The LADC cost of total project cost shall not be the part of EMP.	LADC will be 1.5% of the total project cost and is not a part of EMP. Total of 3.09 crores ave been deposited on this account with the committee.
24.	The PP shall perform to achieve the targets, actions as shown in the EIA Report EIA/EMP matrix w.r.t. base line data, probable incremental pollution load and also as elaborated in the matrix w.r.t. component of activity, resultant pollution, mitigation action plan for during the post construction phases given in EIA/EMP report.	Agreed
25.	The project proponent shall establish effective Environment Monitoring Cell during the construction phase itself.	An effective Environment Monitoring Cell has been established during the construction phase. HPPCL has deployed 1 no. Dy. Manager (Environment) and a dedicated team of 7 safety officers at site. Safety and EHS Officers from both contractors are also deployed. Regular environment monitoring including ground water, surface water, drinking water, ambient air, ambient noise, DG set emissions and soil testing is being carried out. Third Party Annual Environment Audit for Package II is also being conducted.
26.	The Project Proponent shall consult the local office of the Department of Forests of any other such authorized agency, university, institution for types of trees which should be planted for development of the green belt around the project site.	Agreed
27.	The Project Proponent shall provide fuel	LPG has been provided as fuel to all



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	facility to the labour to avoid any illegal access to the forests by the labourers for fuel wood. Provision should be made for the supply of kerosene or cooking gas/ pressure cooker to the labourers during construction phase.	labourers at site to prevent any illegal access to nearby forests for fuel wood. Contractor has been directed to ensure continued supply of cooking gas/pressure cooker to labourers during the entire construction phase.
28.	The PP shall construct and provide toilets for use of labourer in the ratio of 1:20 (i.e. one toilet for twenty labourers).	Sanitation/toilet facilities have been provided at all adit locations and powerhouse sites. Facilities are being maintained in a ratio of 1:20 as stipulated. Photographs of sanitation facilities are appended as part of Annexure-II.
29.	The PP shall ensure proper handling of the municipal wastes, dispose off the non-biodegradable waste including biomedical wastes, if any, in a scientific manner; dispose hazardous wastes such used CFL etc. at the designated authorized hazardous wastes dumping site at TSDF Nalagarh. The PP shall also explore option for buy back mechanism for the waste CFL.	Proper handling of municipal wastes is being ensured. Package II contractor has engaged two separate authorized vendors for bio-medical waste and solid/hazardous waste disposal. Package I contractor has been directed for similar arrangements. HPPCL E&S Officers are conducting routine inspections at site to ensure compliance. Hazardous waste disposal agreements are in place ( <b>Annexure VII</b> ).
30.	The PP shall reduce the number and capacity of DG sets as proposed and shall meet the requirement out of non-conventional sources of energy.	Needful will be done as per site conditions.
31.	The PP shall undertake construction and development of STP during construction period and shall submit progress report of same to the Authority.	Needful will be done
32.	The PP shall undertake air quality monitoring during construction period/ phase on monthly basis besides ensuring that the ambient air quality is maintained and monitored at the project site during the construction phase.	Air quality monitoring during construction is being undertaken on monthly basis. Ambient air quality (SPM, SO <sub>2</sub> , NO <sub>x</sub> ) and air emissions from DG sets are being regularly monitored at the project site. The condition has been incorporated in the bidding document and is being implemented.
33.	During the construction phase, the PP shall ensure that water sprinkling is done for preventing the dust/air pollution.	Water sprinkling around construction sites and roads is being done regularly to prevent dust/air pollution. Photographs of water sprinkling activity are appended as part of Annexure-VI.
34.	A separate energy meter shall be installed for STP and log book shall be maintained on energy consumption. Interlocking of electric supply to STP and housing complex shall be ensured by the PP.	Needful will be done
35.	The PP shall submit photographs and video of the project progress during the construction phase at least three times, and once after operational stage.	Agreed
36.	The PP shall make all necessary arrangements for solid waste management viz; collection,	All necessary arrangements for solid waste management including collection,



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	segregation, transportation to the site and final disposal. The SWM and waste water management shall be the sole responsibility of the Developer.	segregation and disposal are being made. Solid waste collection bins have been placed at site. Two separate authorized vendors have been engaged for bio-medical and hazardous waste disposal. Waste collection is being done regularly at all project sites (Annexure-III).
37.	The design of STP and waste management facilities as proposed by the developer shall be installed as proposed, failing which he shall be liable action. It shall be sole responsibility of Developer to operate and maintain the STP.	Agreed Needful will be done
38.	The PP will plant the species of various types which are endemic to area and have high carbon sequestering potential.	Agreed
39.	Street lighting should be energy efficient-use of High Pressure Sodium Vapour (HPSV) lamps and CFL/LEDs should be promoted. Solar energy may be used for heating and outdoor lighting.	Needful will be done as per site conditions
40.	The solar lights shall be used for the street lighting.	Needful will be done as per site conditions

The report is being sent by e-mail for your kind information, please.

Yours sincerely,

**Enclosed: As above**

  
**General Manager,**  
**RCP, HPPCL, Sundla,**  
**Distt.Chamba-176312.**

**.CC:**

1. The Director (P)-cum- Chief Environment Specialist, HPPCL Himfed building, BCS, Shimla -09.
2. The Director (Civil), HPPCL, Himfed building, BCS, New Shimla-09.
3. Member Secretary, HP Pollution Control Board, HIMPARIRESH, Below BCS, New Shimla.
4. Sr. Manager IT, HPPCL Himfed building, BCS, New Shimla -09. He is requested to upload the compliance status in the HPPCL web portal.
5. Dy. Manager (Environment) RCP, HPPCL, Sundla, Distt. Chamba



## On-line Payment Receipt

Receipt No.	260331264897306
Depositor Name	Er Sunil Thakur
Bank Id.	NA
Bank Name.	
Application No.	18669273
Name and Address of Industry	Chanju III 48mw HEP, HP POWER CORP LTD, Village & Post office Sundla Tehsil Salooni Distt. Chamba, Churah, Chamba
Name of Regional Office	RO Chamba
Applied For	CTE - both - reNew
Payment Date	Tue Mar 31 17:55:57 IST 2026
<b>Payment Details</b>	
CTE both (Rs.)	200000.0
Total Amount Paid (Rs.)	200010
Transaction Status	Successfully Completed



# **Sanitation Facilities at Project Sites**

## Sanitation Facility at different Adit Locations



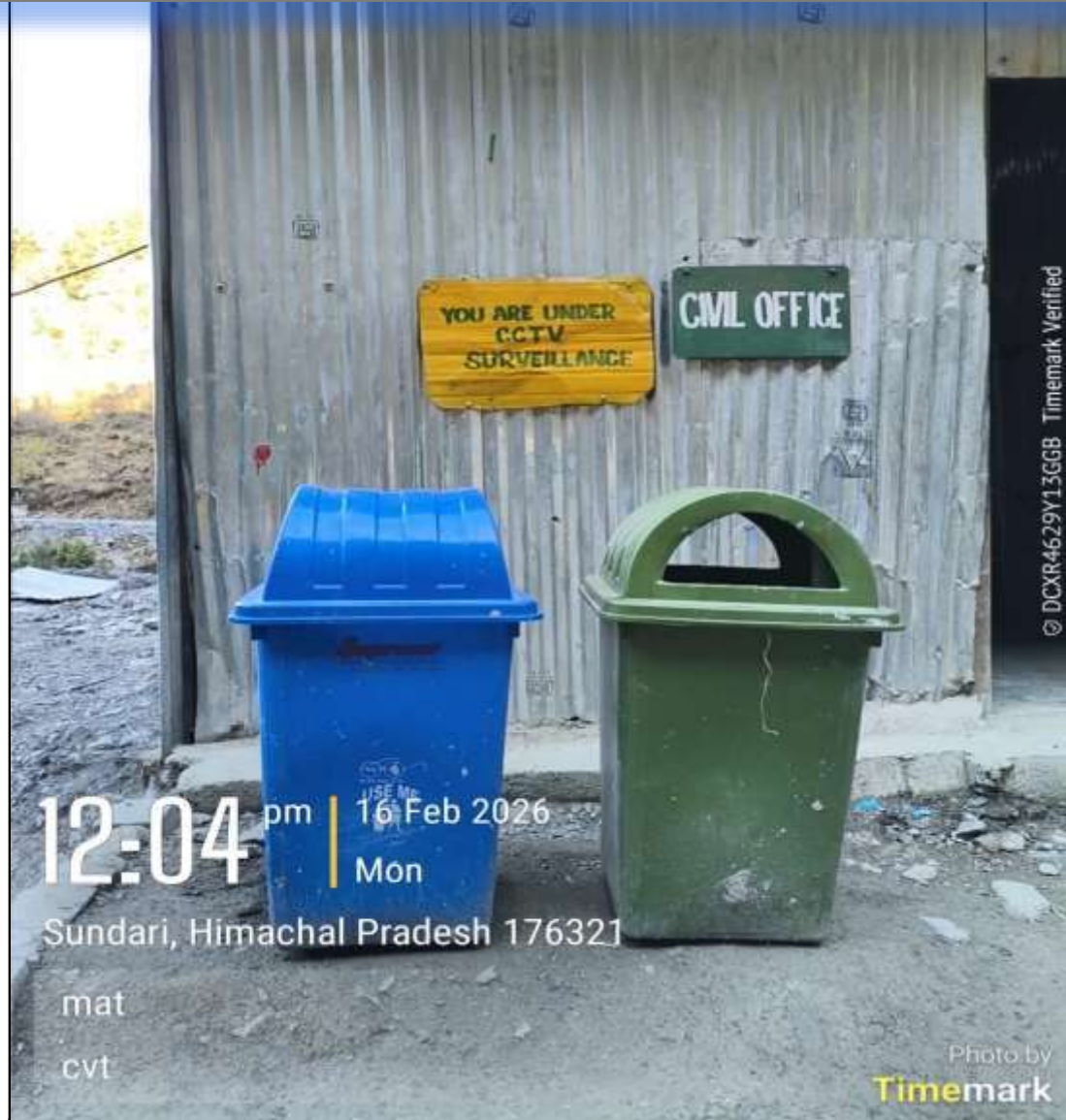
## Sanitation Facility at Powerhouse sites



## Sanitation Facility at Powerhouse sites



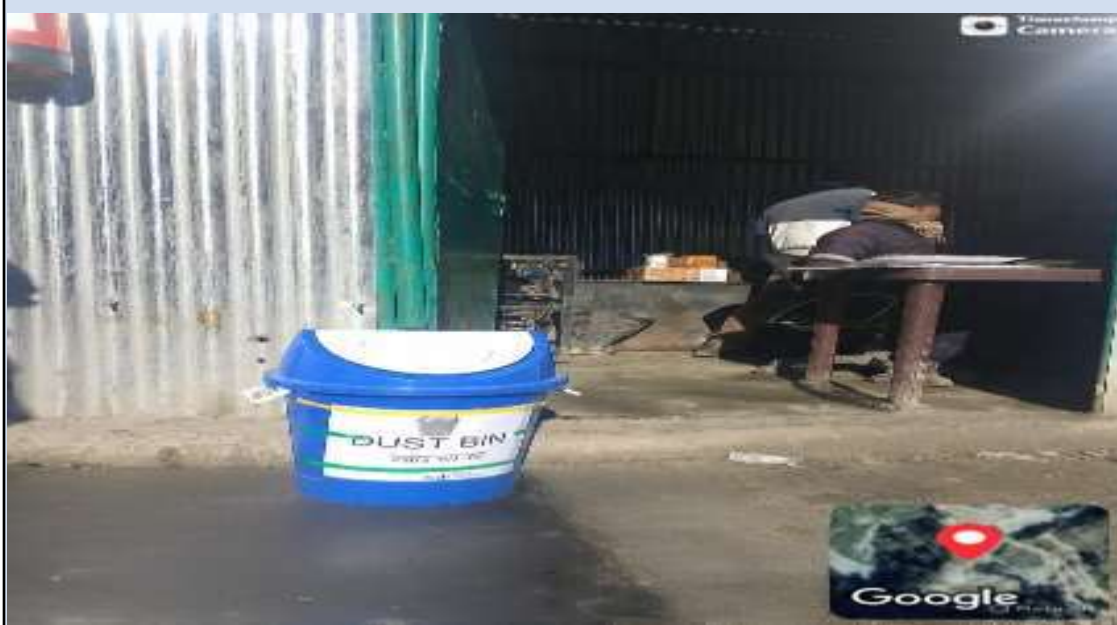
## Waste Collection



## Waste Collection



## Waste Collection



# First Aid Facilities at Project Sites

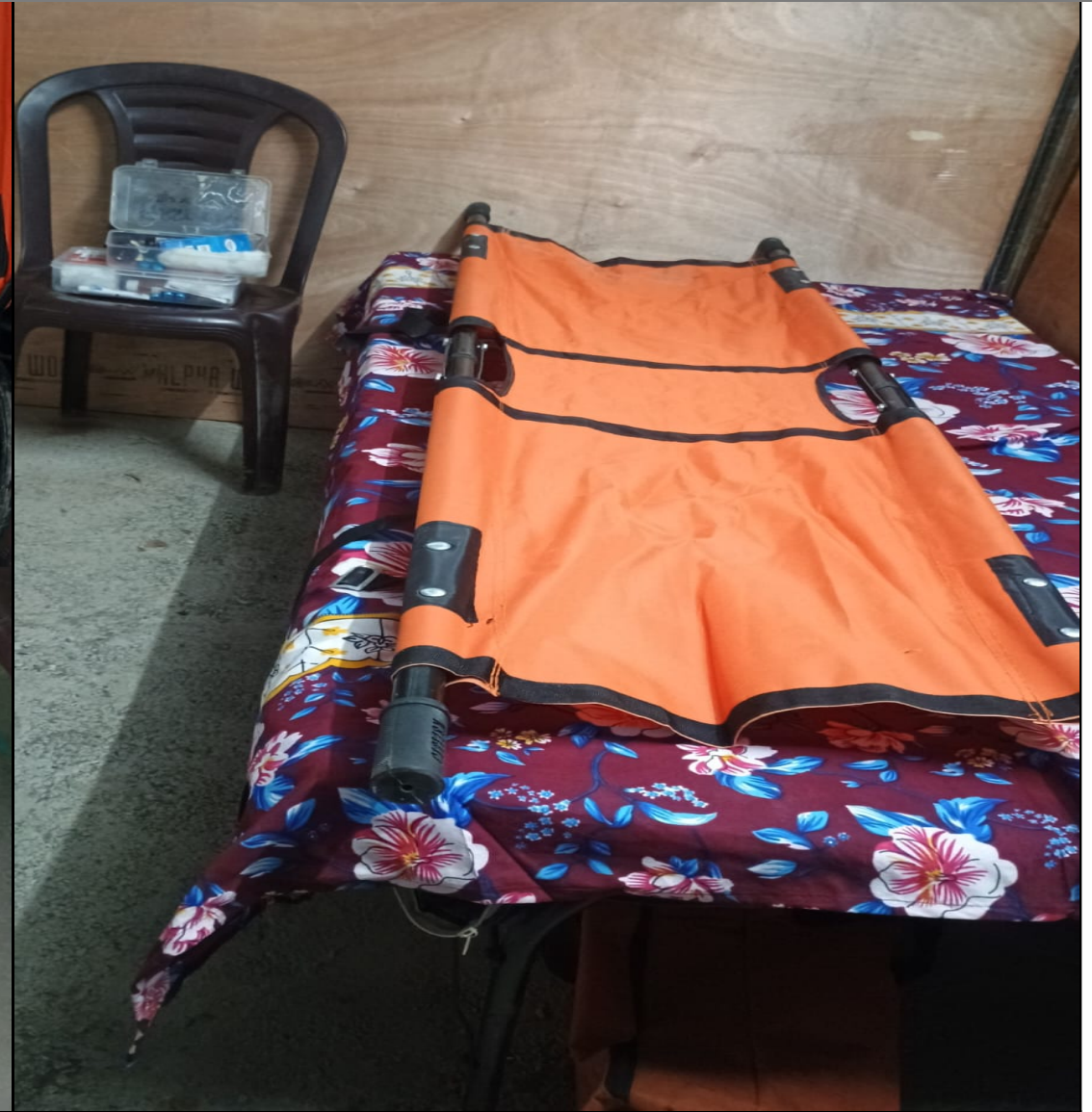
# Chanju-III HEP (48 MW)



## Contractor Site office



## First Aid Facility at site



## Ambulances at Intake & Power House Sites



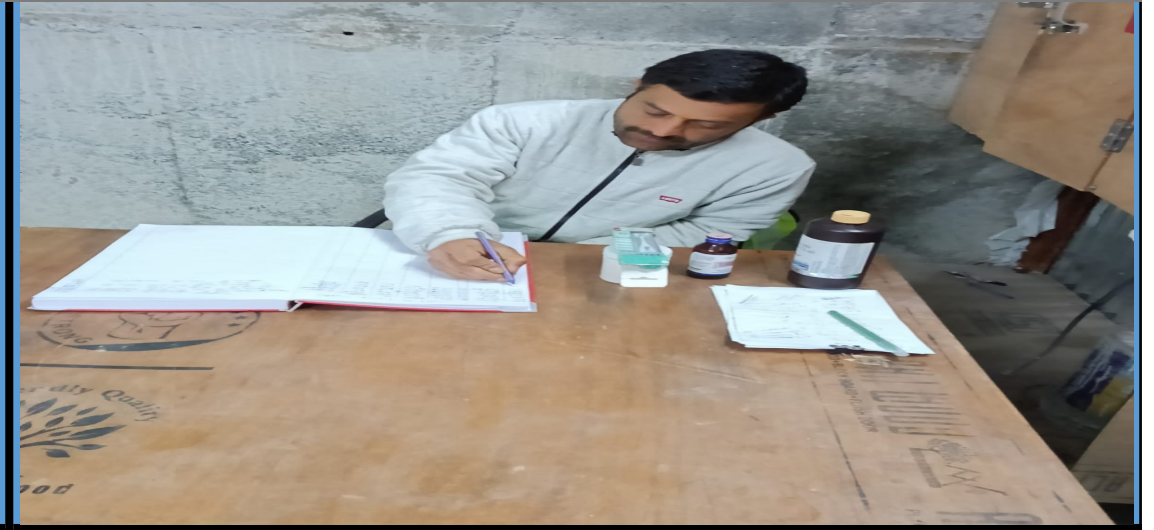
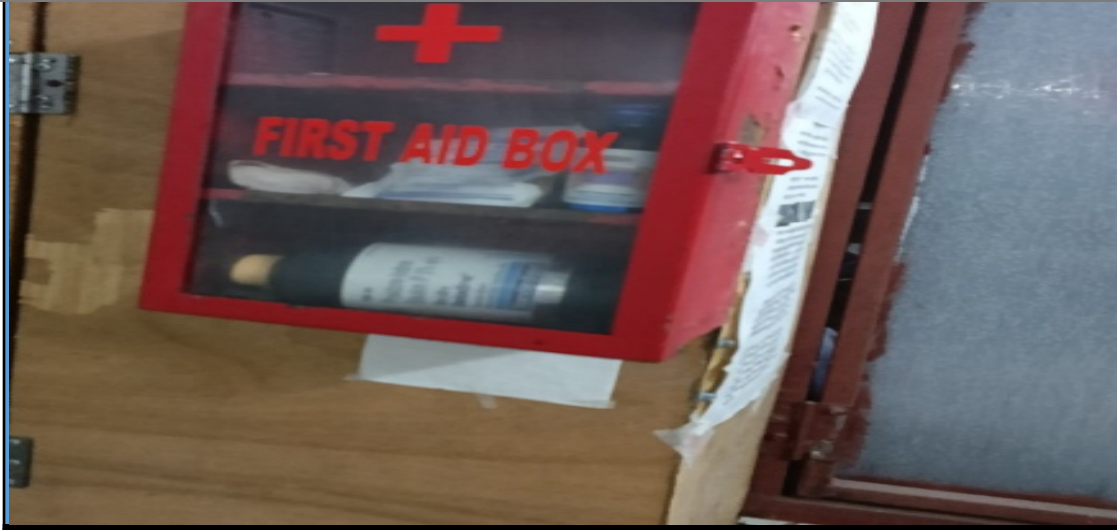
## Ambulances at Intake & Power House Sites



## first aid kits at different site locations



## first aid kits at different site locations





**HIMACHAL PRADESH POWER CORPORATION LIMITED**  
**(A STATE GOVERNMENT UNDERTAKING)**

Office of General Manager

Ravi & Chenab Projects,

HPPCL, Sundla, Distt. Chamba(H.P.)-176312

Phone & Fax No. 01896-242042, e-mail:- [gmrpc7@gmail.com](mailto:gmrpc7@gmail.com)



**Fig No. 1 – Dumping Site 1**



**Fig No. 2 – Dumping Site2**



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**Fig No. 3 – Dumping Site4**



**Fig. No. 4 – Dumping Site 5**



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**Fig. No. 5 – Dumping Site 6**



**Fig. No. 6 – Dumping Site 7**



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**Fig. No. 7 – Dumping Site 9**



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TC-11181

Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-230126-09

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1


### SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air  
Date of Sampling : 21/01/2026 To 22/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Location : **Near Kalprai Store Area**  
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.35  
Average Flow Rate of Gases (lpm) : 0.2  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Sampling Machine Placed At Height : 2.5 Meter from Ground Level  
Ambient Temperature & Humidity : 5.0°C & 94%  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 <sup>th</sup> Nov 2009
1.	Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-23)	22.6	100
2.	Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-24)	12.8	60
3.	Sulphur dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-02/Sec-2)	<5.0	80
4.	Nitrogen dioxide (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS 5182 (Part-06/Sec-2)	7.8	80
5.	Carbon monoxide (as CO) (mg/m <sup>3</sup> )	IS:5182 (Part-10)	<1.0	4.0

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*



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TC-11181

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-230126-10

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1


### SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air  
Date of Sampling : 21/01/2026 To 22/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Location : **Village – Dehra Near GM Guest House**  
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.34  
Average Flow Rate of Gases (lpm) : 0.2  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Sampling Machine Placed At Height : 2.5 Meter from Ground Level  
Ambient Temperature & Humidity : 5.0°C & 94%  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 <sup>th</sup> Nov 2009
1.	Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-23)	25.2	100
2.	Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-24)	12.1	60
3.	Sulphur dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-02/Sec-2)	<5.0	80
4.	Nitrogen dioxide (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS 5182 (Part-06/Sec-2)	7.2	80
5.	Carbon monoxide (as CO) (mg/m <sup>3</sup> )	IS:5182 (Part-10)	<1.0	4.0

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Reviewed by  
**Ashish Dubey**  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-230126-11

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1


### SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air  
Date of Sampling : 21/01/2026 To 22/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Sanhil Kumar Ji  
Sampling Location : **Near Chanju Mata Mandir**  
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.36  
Average Flow Rate of Gases (lpm) : 0.2  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Sampling Machine Placed At Height : 2.5 Meter from Ground Level  
Ambient Temperature & Humidity : 5.0°C & 94%  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 <sup>th</sup> Nov 2009
1.	Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-23)	20.2	100
2.	Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-24)	10.5	60
3.	Sulphur dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-02/Sec-2)	<5.0	80
4.	Nitrogen dioxide (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS 5182 (Part-06/Sec-2)	5.3	80
5.	Carbon monoxide (as CO) (mg/m <sup>3</sup> )	IS:5182 (Part-10)	<1.0	4.0

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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TC-11181

Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-230126-12

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1


### SAMPLING & ANALYSIS DATA

Sample Description : Ambient Air  
Date of Sampling : 21/01/2026 To 22/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Location : **Near Labour Colony**  
Sampling Plan & Procedure : IS:5182 & CPCB Guidelines  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.32  
Average Flow Rate of Gases (lpm) : 0.2  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Sampling Machine Placed At Height : 2.5 Meter from Ground Level  
Ambient Temperature & Humidity : 5.0°C & 94%  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Results	Limits as per CPCB Notification 18 <sup>th</sup> Nov 2009
1.	Particulate Matter (PM <sub>10</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-23)	25.9	100
2.	Particulate Matter (PM <sub>2.5</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-24)	14.6	60
3.	Sulphur dioxide (as SO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS:5182 (Part-02/Sec-2)	<5.0	80
4.	Nitrogen dioxide (as NO <sub>2</sub> ) (µg/m <sup>3</sup> )	IS 5182 (Part-06/Sec-2)	12.8	80
5.	Carbon monoxide (as CO) (mg/m <sup>3</sup> )	IS:5182 (Part-10)	<1.0	4.0

Note: - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)

  
Authorized Signatory

\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Noise Analysis

Report Code: N-230126-12

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju – III HEP (48 MW)

Contractor Name- MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description	:	Ambient Noise
Date of Sampling	:	21/01/2026 To 22/01/2026
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	:	Mr. Rahul Sharma Ji
Site Representative	:	Mr. Santhil Kumar Ji
Sampling Location	:	Near Kalprai Store Area
Sampling Plan & Procedure	:	ITS/LAB/SAMPLING/SOP/02
Sampling Instrument Used	:	Noise Meter
Weather Condition	:	Clear
Sample Received On	:	23/01/2026
Analysis Duration	:	23/01/2026 To 27/01/2026

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	54.2	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	37.6	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Remarks: On the basis of above tested parameter, Sample meets with CPCB requirement.

Note: - Report shall not be produce except in full without approval of the laboratory.

Reviewed by  
**Ashish Dubey**  
(Sr. Analyst)

Authorized Signatory

\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Noise Analysis

Report Code: N-230126-13

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
 (A State Government under Taking) Chanju –III HEP (48 MW)

Contractor Name- MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

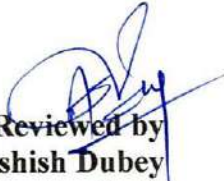
Sample Description : Ambient Noise  
 Date of Sampling : 21/01/2026 To 22/01/2026  
 Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
 HPPCL Representative : Mr. Rahul Sharma Ji  
 Site Representative : Mr. Santhil Kumar Ji  
 Sampling Location : Village – Dehra Near GM Guest House  
 Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02  
 Sampling Instrument Used : Noise Meter  
 Weather Condition : Clear  
 Sample Received On : 23/01/2026  
 Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	49.4	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	35.2	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Remarks: On the basis of above tested parameter, Sample meets with CPCB requirement.

Note: - Report shall not be produce except in full without approval of the laboratory.

  
 Reviewed by  
 Ashish Dubey  
 (Sr. Analyst)

  
 Authorized Signatory

\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Noise Analysis

Report Code: N-230126-14

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
**(A State Government under Taking) Chanju –III HEP (48 MW)**

Contractor Name- **MFB BHUMI PACKAGE – 1**

### SAMPLING & ANALYSIS DATA


Sample Description : **Ambient Noise**  
 Date of Sampling : 21/01/2026 To 22/01/2026  
 Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
 HPPCL Representative : Mr. Rahul Sharma Ji  
 Site Representative : Mr. Santhil Kumar Ji  
 Sampling Location : **Near Chanju Mata Mandir**  
 Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02  
 Sampling Instrument Used : Noise Meter  
 Weather Condition : Clear  
 Sample Received On : 23/01/2026  
 Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	<b>EQUIVALENT NOISE LEVEL</b> (6.0 AM TO 10.0 PM)	46.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	<b>EQUIVALENT NOISE LEVEL</b> (10.0 PM TO 6.0 AM)	30.6	dB(A)	Residential Area	55	45
				Silence Zone	50	40

**Remarks:** On the basis of above tested parameter, Sample meets with CPCB requirement.

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
 Reviewed by  
**Ashish Dubey**  
 (Sr. Analyst)

  
 Authorized Signatory

\*\*\*End of Report\*\*\*

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+91 9911659800, 9305780312, 09958849764



Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Ambient Noise Analysis

Report Code: N-230126-15

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju –III HEP (48 MW)

Contractor Name- MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Ambient Noise  
 Date of Sampling : 21/01/2026 To 22/01/2026  
 Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
 HPPCL Representative : Mr. Rahul Sharma Ji  
 Site Representative : Mr. Santhil Kumar Ji  
 Sampling Location : Near Labour Colony  
 Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02  
 Sampling Instrument Used : Noise Meter  
 Weather Condition : Clear  
 Sample Received On : 23/01/2026  
 Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	55.8	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	36.9	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Remarks: On the basis of above tested parameter, Sample meets with CPCB requirement.

Note: - Report shall not be produce except in full without approval of the laboratory.

Reviewed by  
Ashish Dubey  
(Sr. Analyst)

Authorized Signatory

\*\*\*End of Report\*\*\*

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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)  
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)  
Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in  
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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

D.G. Noise Analysis

Report Code: N-230126-16

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name - MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA


Sample Description	: D.G. Set Noise
Date of Sample Drawn	: 21/01/2026
Sample drawn by	: Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	: Mr. Rahul Sharma Ji
Site Representative	: Mr. Santhil Kumar Ji
Sampling Location	: 1.0 Meter Away from Acoustic Enclosure
Capacity	: D.G. Set – 250 KVA (200 kW)
Sampling Duration	: 10 Minutes (One Minute Interval of Each Point)
Sampling Plan & Procedure	: ITS/LAB/SAMPLING/SOP/02
Sampling Instrument Used	: Noise Meter
Weather Condition	: Clear
Purpose of Monitoring	: Efficacy of D.G. Acoustic Enclosure
Sample Received On	: 23/01/2026
Analysis Duration	: 23/01/2026 To 27/01/2026

### TEST RESULT

Location	Noise Level, Cum Leq dB(A)	Protocol followed	Limit as per CPCB Norms
<b>(A). When D.G. Set was in operation</b>			
1. Open D.G. window			
(a) 0.5 mtr. Distance away from DG Set engine	101.3	IS:4758	75.0 (Max) from 1.0 meter distance in close window
(b) 1.0 mtr. Distance away from DG Set engine	99.4		
2. Close DG window			
(a) 0.5 mtr. Distance away from the gate of DG Set engine	73.6		
(b) 1.0 mtr. Distance away from the gate DG Set engine	71.8		

**Remark:** All doors of acoustic enclosure closed and D.G. Set running at the time of monitoring.

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### D.G. Noise Analysis

Report Code: N-230126-17

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
**(A State Government under Taking) Chanju –III HEP (48 MW)**  
 Contractor Name - **MFB BHUMI PACKAGE – 1**

### SAMPLING & ANALYSIS DATA


Sample Description : **D.G. Set Noise**  
 Date of Sample Drawn : 21/01/2026  
 Sample drawn by : Mr. Vivek Kumar (ITS LAB Representative)  
 HPPCL Representative : Mr. Rahul Sharma Ji  
 Site Representative : Mr. Santhil Kumar Ji  
 Sampling Location : 1.0 Meter Away from Acoustic Enclosure  
 Capacity : **D.G. Set – 82.5 KVA (66 kW)**  
 Sampling Duration : 10 Minutes (One Minute Interval of Each Point)  
 Sampling Plan & Procedure : ITS/LAB/SAMPLING/SOP/02  
 Sampling Instrument Used : Noise Meter  
 Weather Condition : Clear  
 Purpose of Monitoring : Efficacy of D.G. Acoustic Enclosure  
 Sample Received On : 23/01/2026  
 Analysis Duration : 23/01/2026 To 27/01/2026

### TEST RESULT

Location	Noise Level, Cum Leq dB(A)	Protocol followed	Limit as per CPCB Norms
<b>(A). When D.G. Set was in operation</b>			
1. Open D.G. window			
(a) 0.5 mtr. Distance away from DG Set engine	99.1	IS:4758	75.0 (Max) from 1.0 meter distance in close window
(b) 1.0 mtr. Distance away from DG Set engine	97.2		
2. Close DG window			
(a) 0.5 mtr. Distance away from the gate of DG Set engine	73.0		
(b) 1.0 mtr. Distance away from the gate DG Set engine	70.6		

**Remark:** All doors of acoustic enclosure closed and D.G. Set running at the time of monitoring.

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
 Reviewed by  
**Ashish Dubey**  
 (Sr. Analyst)

  
 Authorized Signatory

\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Stack Emission Sample Analysis

Report Code: SE-230126-06

Issue Date: 27/01/2026

Issued To: **M/S. Himachal Pradesh Power Corporation Limited**  
**A State Government under Taking) Chanju –III HEP (48 MW)**  
 Contractor Name - **MFB BHUMI PACKAGE – 1**

### SAMPLING & ANALYSIS DATA


Sample Description	:	Stack Emission
Date of Sample Drawn	:	21/01/2026
Sample drawn by	:	Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	:	Mr. Rahul Sharma Ji
Site Representative	:	Mr. Santhil Kumar Ji
Source of Emission	:	Stack Attached To D.G. Set – 250 KVA (200 kW)
Ambient Temperature (°C)	:	5.0
Flue Gas Temperature (°C)	:	142.0
Type of Stack	:	MS / Circular
Type of Fuel Used	:	HSD
Stack Height from Ground Level (meter)	:	2.5
Stack Diameter (meter)	:	0.10
Average Velocity of Flue Emission(m/s)	:	17.68
Quantity of Emission Discharge(m <sup>3</sup> /hr.)	:	368.82
Parameters to be tested	:	As per EPA Act-1986/CPCB/MoEF Guideline
Test Method Used for Monitoring	:	APHA-AIR/US EPA/IS:11255
Instrument Used for Monitoring	:	Stack Kit/Flue Gas Analyzer
Operating Load	:	Full
Sampling Time (Minutes)	:	35.0
Any Pollution Control System, If Any	:	Nil
Date Sample Received	:	23/01/2026
Analysis Duration	:	23/01/2026 To 27/01/2026

### TEST RESULTS

S. No.	Parameter	Test Method	Results	Limit as per CPCB Notification, 11 <sup>th</sup> Dec. 2013 Upto 800 kW D.G. Set (Max)
1.	Particulate Matter (as PM) (g/kw-hr)	IS:11255(Part-1)	0.076	≤0.2
2.	Oxides of Nitrogen (as NOx) (g/kw-hr)	IS:11255(Part-7)	0.671	≤4.0
3.	Hydrocarbons (as HC) (g/kw-hr)	IS:11255(Part-13)	0.22	≤3.5
4.	Carbon monoxide (as CO) (g/kw-hr)	IS:13270	0.60	≤3.5

Note: g/Kw-hr:- Gram Per Kilo Watt Hour

Note: - Report shall not be produce except in full without approval of the laboratory

  
 Reviewed by  
**Ashish Dubey**  
 Sr. Analyst



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01, Page No. – 1 of 1

## TEST REPORT

### Stack Emission Sample Analysis

Report Code: SE-230126-07

Issue Date: 27/01/2026

Issued To: **M/S. Himachal Pradesh Power Corporation Limited**  
**A State Government under Taking) Chanju –III HEP (48 MW)**  
 Contractor Name - **MFB BHUMI PACKAGE – 1**

### SAMPLING & ANALYSIS DATA


Sample Description	: Stack Emission
Date of Sample Drawn	: 21/01/2026
Sample drawn by	: Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	: Mr. Rahul Sharma Ji
Site Representative	: Mr. Santhil Kumar Ji
Source of Emission	: Stack Attached To D.G. Set – 82.5 KVA (66 kW) (CPCB IV <sup>th</sup> Generation)
Ambient Temperature (°C)	: 5.0
Flue Gas Temperature (°C)	: 105.0
Type of Stack	: MS / Circular
Type of Fuel Used	: HSD
Stack Height from Ground Level (meter)	: 1.50
Stack Diameter (meter)	: 0.075
Average Velocity of Flue Emission(m/s)	: 18.20
Quantity of Emission Discharge(m <sup>3</sup> /hr.)	: 234.47
Parameters to be tested	: As per EPA Act-1986/CPCB/MoEF Guideline
Test Method Used for Monitoring	: APHA-AIR/US EPA/IS:11255
Instrument Used for Monitoring	: Stack Kit/Flue Gas Analyzer
Operating Load	: Full
Sampling Time (Minutes)	: 30.0
Any Pollution Control System, If Any	: Nil
Date Sample Received	: 23/01/2026
Analysis Duration	: 23/01/2026 To 27/01/2026

### TEST RESULTS

S. No.	Parameter	Test Method	Results	Limit as per CPCB Notification, 11 <sup>th</sup> Dec. 2013 For 19kW To 75kW D.G. Set (Max)
1.	Particulate Matter (as PM) (g/kw-hr)	IS:11255(Part-1)	0.0060	≤0.3
2.	Oxides of Nitrogen (as NOx) (g/kw-hr)	IS:11255(Part-7)	0.074	≤4.7
3.	Hydrocarbons (as HC) (g/kw-hr)	IS:11255(Part-13)	0.016	
4.	Carbon monoxide (as CO) (g/kw-hr)	IS:13270	0.09	≤3.5

Note: g/Kw-hr:- Gram Per Kilo Watt Hour

Note: - Report shall not be produce except in full without approval of the laboratory

  
 Reviewed by  
**Ashish Dubey**  
 Sr. Analyst



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01

Report Code: SS: 230126-03, Page – 1 of 3

## TEST REPORT

### Soil Sample Analysis

Report Code: SS: 230126-03

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju –III HEP (48 MW)

Contractor Name - MFB BHUMI PACKAGE – 1

### Sampling & Particulate Detail

Sample Description	:	Soil Sample
Sampling Location	:	Near – Chanju Mata Mandir
Date of Sampling	:	21/01/2026
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	:	Mr. Rahul Sharma Ji
Site Representative	:	Mr. Santhil Kumar Ji
Sampling Procedure	:	ITS/LAB/SAMPLING/STP/05
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Weather Condition	:	Clear Sky
Sample Received On	:	23/01/2026
Analysis Duration	:	23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH @ 25°C	IS:2720(Part-26)	7.94	-
2.	Electrical Conductivity @25°C	IS:14767	352	µS/cm
3.	Water Holding Capacity	ITS/STP/SOIL/09	27.2	% by mass
4.	Moisture Content	IS:2720(Part-02)	31.47	% by mass
5.	Calcium Carbonates (as CaCO <sub>3</sub> )	IS:2720(Part-23)	3982	% by mass
6.	Available Magnesium (as Mg)	ITS/STP/SOIL/06	781.4	mg/kg
7.	Available Sodium (as Na)	ITS/STP/SOIL/01	296.8	mg/kg
8.	Total Kjeldahl Nitrogen (as TKN)	ITS/STP/SOIL/07	0.080	% by mass
9.	Total Soluble Sulphate (as SO <sub>4</sub> )	IS:2720 (Part-27)	1986	mg/kg
10.	Total Soluble Salt	ITS/STP/SOIL/08	0.317	mg/kg
11.	Available Nitrogen (as N)	ITS/STP/SOIL/03	218	mg/kg
12.	Available Potassium (as K <sub>2</sub> O)	ITS/STP/SOIL/02	44.2	mg/kg
13.	Available Phosphorus (as P <sub>2</sub> O <sub>5</sub> )	ITS/STP/SOIL/04	90.6	mg/ kg
14.	Sodium Absorption Ration (SAR)	IS:11624	1.18	-
15.	Organic Matter	IS:2720 (Part-22)	0.91	% by mass
16.	Available Iron (as Fe)	ITS/STP/SOIL/05	2.20	% by mass

Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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Doc. No. – ITS/7.8-01

Report Code: SS: 230126-03, Page – 2 of 3

17.	Calcium (as Ca)	ITS/LAB/STP/SOIL	2074	mg/kg
18.	Ammonia (as NH <sub>3</sub> -N)	ITS/LAB/STP/SOIL	55.91	mg/kg
19.	Bicarbonates	ITS/LAB/STP/SOIL	37.5	meq/kg
20.	Boron (as B)	APHA 24 <sup>th</sup> Edit.	0.61	mg/kg
21.	Iodine (as I <sub>2</sub> )	ITS/LAB/STP/SOIL	BDL	mg/kg
22.	Sand	IS:2720(Part-4)	49.6	% by mass
23.	Clay	IS:2720(Part-4)	20.2	% by mass
24.	Silt	IS:2720(Part-4)	30.2	% by mass
25.	Texture	IS:2720 (Part-4)	Sandy Clay Loam	-
26.	Total Potash (as K)	IS:3025 P-40-1991	20.65	mg/kg
27.	Organic Carbon	IS:2720 (Part-22)	0.53	% by mass
28.	Cation Exchange Capacity	IS:2720(Part-24)	20.82	meq/100gm
29.	Aluminum (as Al)	US EPA-3050B	BDL	mg/kg
30.	Antimony (as Sb)	US EPA-3050B	BDL	mg/kg
31.	Tin (as Sn)	APHA 24 <sup>th</sup> Edit.	BDL	mg/kg
32.	Arsenic (as As)	US EPA-3050B	BDL	mg/kg
33.	Chlorine (as Cl <sub>2</sub> )	IS:3025(Part-32)	12.74	mg/kg
34.	Cobalt (as Co)	US EPA-3050B	BDL	mg/kg
35.	Cadmium (as Cd)	US EPA-3050B	2.84	mg/kg
36.	Chromium (as Cr)	US EPA-3050B	BDL	mg/kg
37.	Copper (as Cu)	US EPA-3050B	66.8	mg/kg
38.	Barium (as Ba)	US EPA-3050B	BDL	mg/kg
39.	Zinc (as Zn)	US EPA-3050B	84.91	mg/kg
40.	Nickel (as Ni)	US EPA-3050B	38.21	mg/kg
41.	Sulphur (as S)	IS:3025 (Part-24)	19.32	mg/kg
42.	Nitrate (as NO <sub>3</sub> )	ITS/LAB/STP/SOIL	4.50	mg/kg
43.	Nitrite (as NO <sub>2</sub> )	ITS/LAB/STP/SOIL	BDL	mg/kg
44.	Poly chlorinated Biphenyl	EPA 610	BDL	mg/kg
45.	<b>Polycyclic Aromatic Hydrocarbon</b>			
A.	Nephthalene (NAP)	EPA 610	N.D.	mg/kg
B.	Acenaphthylene (ANY)	EPA 610	N.D.	mg/kg
C.	Acenaphthene (ANA)	EPA 610	N.D.	mg/kg
D.	Fluorene (FLU)	EPA 610	N.D.	mg/kg
E.	Phenanthrene (PHE)	EPA 610	N.D.	mg/kg

  
 Reviewed by  
**Ashish Dubey**  
 (Sr. Analyst)



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Report Code: SS: 230126-03, Page – 3 of 3

F.	Anthracene (ANT)	EPA 610	N.D.	mg/kg
G.	Fluoranthene (FLT)	EPA 610	N.D.	mg/kg
H.	Pyrene (PYR)	EPA 610	N.D.	mg/kg
I.	Benzo (a) anthracene (BaA)	EPA 610	N.D.	mg/kg
J.	Chrysene (CHR)	EPA 610	N.D.	mg/kg
K.	Benzo (b)fluoranthene (BbF)	EPA 610	N.D.	mg/kg
L.	Benzo (k)fluoranthene (BkF)	EPA 610	N.D.	mg/kg
M.	Benzo (a)pyrene (BaP)	EPA 610	N.D.	mg/kg
N.	Idenol (1,2,3-c,d) pyrene (IPY)	EPA 610	N.D.	mg/kg
O.	Dibenzo (a,h) anthracene (DBA)	EPA 610	N.D.	mg/kg
P.	Benzo (g,h,i) perylene (BPE)	EPA 610	N.D.	mg/kg
47.	<b>Total Pesticides</b>			
A.	Heptachlor epoxide	USEPA-525.2	N.D.	mg/kg
B.	Trans Chlordane	USEPA-525.2	N.D.	mg/kg
C.	Endrin	USEPA-508	N.D.	mg/kg
D.	Dieldrin	USEPA-508	N.D.	mg/kg
E.	DDT (o,p&p,p-isomers of DDT, DDE& DDD)	USEPA-508	N.D.	mg/kg
F.	Cis-chlordane	USEPA-508	N.D.	mg/kg
G.	Endosulfan I	USEPA-508	N.D.	mg/kg
H.	Endosulfan II	USEPA-508	N.D.	mg/kg

**Remarks:** N.D.- Not Detected, Minimum Detection Limit is 0.01 mg/kg.

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)

  
Authorized Signatory

\*\*\*End of Report\*\*\*

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TC-11181

Doc. No. – ITS/7.8-01

Report Code: SS: 230126-04, Page – 1 of 3

## TEST REPORT

### Soil Sample Analysis

Report Code: SS: 230126-04

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju –III HEP (48 MW)


Contractor Name - MFB BHUMI PACKAGE – 1

### Sampling & Particulate Detail

Sample Description	:	Soil Sample
Sampling Location	:	Project Site Approach Road Near Intake – 01
Date of Sampling	:	21/01/2026
Sample Drawn By	:	Mr. Vivek Kumar (ITS LAB Representative)
HPPCL Representative	:	Mr. Rahul Sharma Ji
Site Representative	:	Mr. Santhil Kumar Ji
Sampling Procedure	:	ITS/LAB/SAMPLING/STP/05
Sample Quantity	:	2.0 Kg in Zip Poly Bag
Weather Condition	:	Clear Sky
Sample Received On	:	23/01/2026
Analysis Duration	:	23/01/2026 To 27/01/2026

### TEST RESULT

S. No.	Parameter	Test Method	Result	Unit
1.	pH @ 25°C	IS:2720(Part-26)	8.05	-
2.	Electrical Conductivity @25°C	IS:14767	376	µS/cm
3.	Water Holding Capacity	ITS/STP/SOIL/09	30.4	% by mass
4.	Moisture Content	IS:2720(Part-02)	32.86	% by mass
5.	Calcium Carbonates (as CaCO <sub>3</sub> )	IS:2720(Part-23)	3148	% by mass
6.	Available Magnesium (as Mg)	ITS/STP/SOIL/06	665.3	mg/kg
7.	Available Sodium (as Na)	ITS/STP/SOIL/01	223.4	mg/kg
8.	Total Kjeldahl Nitrogen (as TKN)	ITS/STP/SOIL/07	0.090	% by mass
9.	Total Soluble Sulphate (as SO <sub>4</sub> )	IS:2720 (Part-27)	1268	mg/kg
10.	Total Soluble Salt	ITS/STP/SOIL/08	0.320	mg/kg
11.	Available Nitrogen (as N)	ITS/STP/SOIL/03	80.76	mg/kg
12.	Available Potassium (as K <sub>2</sub> O)	ITS/STP/SOIL/02	23.91	mg/kg
13.	Available Phosphorus (as P <sub>2</sub> O <sub>5</sub> )	ITS/STP/SOIL/04	48.25	mg/ kg
14.	Sodium Absorption Ration (SAR)	IS:11624	1.20	-
15.	Organic Matter	IS:2720 (Part-22)	1.10	% by mass
16.	Available Iron (as Fe)	ITS/STP/SOIL/05	2.71	% by mass

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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Doc. No. – ITS/7.8-01

Report Code: SS: 230126-04, Page – 2 of 3

17.	Calcium (as Ca)	ITS/LAB/STP/SOIL	30.68	mg/kg
18.	Ammonia (as NH <sub>3</sub> -N)	ITS/LAB/STP/SOIL	34.7	mg/kg
19.	Bicarbonates	ITS/LAB/STP/SOIL	26.4	meq/kg
20.	Boron (as B)	APHA 24 <sup>th</sup> Edit.	0.48	mg/kg
21.	Iodine (as I <sub>2</sub> )	ITS/LAB/STP/SOIL	BDL	mg/kg
22.	Sand	IS:2720(Part-4)	49.1	% by mass
23.	Clay	IS:2720(Part-4)	20.5	% by mass
24.	Silt	IS:2720(Part-4)	30.4	% by mass
25.	Texture	IS:2720 (Part-4)	Sandy Clay Loam	-
26.	Total Potash (as K)	IS:3025 P-40-1991	25.71	mg/kg
27.	Organic Carbon	IS:2720 (Part-22)	0.64	% by mass
28.	Cation Exchange Capacity	IS:2720(Part-24)	19.6	meq/100gm
29.	Aluminum (as Al)	US EPA-3050B	BDL	mg/kg
30.	Antimony (as Sb)	US EPA-3050B	BDL	mg/kg
31.	Tin (as Sn)	APHA 24 <sup>th</sup> Edit.	BDL	mg/kg
32.	Arsenic (as As)	US EPA-3050B	BDL	mg/kg
33.	Chlorine (as Cl <sub>2</sub> )	IS:3025(Part-32)	28.83	mg/kg
34.	Cobalt (as Co)	US EPA-3050B	BDL	mg/kg
35.	Cadmium (as Cd)	US EPA-3050B	2.31	mg/kg
36.	Chromium (as Cr)	US EPA-3050B	BDL	mg/kg
37.	Copper (as Cu)	US EPA-3050B	21.8	mg/kg
38.	Barium (as Ba)	US EPA-3050B	BDL	mg/kg
39.	Zinc (as Zn)	US EPA-3050B	71.58	mg/kg
40.	Nickel (as Ni)	US EPA-3050B	24.7	mg/kg
41.	Sulphur (as S)	IS:3025 (Part-24)	20.51	mg/kg
42.	Nitrate (as NO <sub>3</sub> )	ITS/LAB/STP/SOIL	5.68	mg/kg
43.	Nitrite (as NO <sub>2</sub> )	ITS/LAB/STP/SOIL	BDL	mg/kg
44.	Poly chlorinated Biphenyl	EPA 610	BDL	mg/kg
45.	<b>Polycyclic Aromatic Hydrocarbon</b>			
A.	Nepthalene (NAP)	EPA 610	N.D.	mg/kg
B.	Acenaphthylene (ANY)	EPA 610	N.D.	mg/kg
C.	Acenaphthene (ANA)	EPA 610	N.D.	mg/kg
D.	Fluorene (FLU)	EPA 610	N.D.	mg/kg
E.	Phenanthrene (PHE)	EPA 610	N.D.	mg/kg

  
 Reviewed by  
**Ashish Dubey**  
 (Sr. Analyst)



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F.	Anthracene (ANT)	EPA 610	N.D.	mg/kg
G.	Fluoranthene (FLT)	EPA 610	N.D.	mg/kg
H.	Pyrene (PYR)	EPA 610	N.D.	mg/kg
I.	Benzo (a) anthracene (BaA)	EPA 610	N.D.	mg/kg
J.	Chrysene (CHR)	EPA 610	N.D.	mg/kg
K.	Benzo (b)fluoranthene (BbF)	EPA 610	N.D.	mg/kg
L.	Benzo (k)fluoranthene (BkF)	EPA 610	N.D.	mg/kg
M.	Benzo (a)pyrene (BaP)	EPA 610	N.D.	mg/kg
N.	Idenol (1,2,3-c,d) pyrene (IPY)	EPA 610	N.D.	mg/kg
O.	Dibenzo (a,h) anthracene (DBA)	EPA 610	N.D.	mg/kg
P.	Benzo (g,h,i) perylene (BPE)	EPA 610	N.D.	mg/kg
47.	<b>Total Pesticides</b>			
A.	Heptachlor epoxide	USEPA-525.2	N.D.	mg/kg
B.	Trans Chlordane	USEPA-525.2	N.D.	mg/kg
C.	Endrin	USEPA-508	N.D.	mg/kg
D.	Dieldrin	USEPA-508	N.D.	mg/kg
E.	DDT (o,p&p,p-isomers of DDT, DDE& DDD)	USEPA-508	N.D.	mg/kg
F.	Cis-chlordane	USEPA-508	N.D.	mg/kg
G.	Endosulfan I	USEPA-508	N.D.	mg/kg
H.	Endosulfan II	USEPA-508	N.D.	mg/kg

**Remarks:** N.D.- Not Detected, Minimum Detection Limit is 0.01 mg/kg.

**Note:** - Report shall not be produce except in full without approval of the laboratory.

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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TC-11181

Doc. No. – ITS/7.8-01

Report Code: W-230126-39, Page No. – 1 of 4

## TEST REPORT

### Water Sample Analysis

Report Code: W-230126-39

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju – III HEP (48 MW)  
Contractor Name - MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Drinking Water Sample  
Sampling Location : Near Chanju Mata Mandir  
Source of Water : -  
Sample Drawn On : 21/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Plan & Procedure : IS:17614 (Part):2021  
Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026  
Test Specification To Be Used : IS:10500:2012

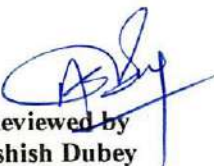
### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-15185:2016	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-15185:2016	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
3.	Taste	IS-3025(P-7 & 8)	Agreeable	Agreeable	Agreeable
4.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
5.	Temperature, (°C)	IS-3025(P-09)	3.0	-	-
6.	pH value	IS-3025(P-11)	7.28	6.5-8.5	-
7.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	84	500	2000

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
8.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	40	200	600
9.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	8.0	75	200
10.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	7.0	250	1000
11.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	35	200	600
12.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	4.86	30	100
13.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	<1.0	200	400
14.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<0.1	45	No Relaxation
15.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
16.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
17.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
18.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
19.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
20.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
21.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
22.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
23.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
24.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
25.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
26.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
27.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
28.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	5.0	15
29.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

### 4. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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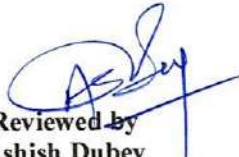
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## 5. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
3.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-Method 8270E	BDL(0.05)	1.0max	No Relaxation
4.	Alpha HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.01max	No Relaxation
5.	Beta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
6.	Delta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
7.	Gamma-HCH (Lindane), (µg/l)	USEPA-Method 8270E	BDL(0.05)	2.0max	No Relaxation
8.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-Method 8270E	BDL(0.05)	0.4max	No Relaxation

The detection limit of individual pesticide is 0.01µg/l

  
Reviewed by  
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(Sr. Analyst)



\*\*\*End of Report\*\*\*

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## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters, (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters, (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
2.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
3.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
4.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
5.	Chlorpyrifos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
6.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
7.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
8.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
9.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
10.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
11.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

Hence water is fit for Drinking purpose.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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TC-11181

Doc. No. – ITS/7.8-01

Report Code: W-230126-40, Page No. – 1 of 4

## TEST REPORT

### Water Sample Analysis

Report Code:W-230126-40

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju – III HEP (48 MW)  
Contractor Name - MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Drinking Water Sample  
Sampling Location : Near Kalprai Store Area  
Source of Water : -  
Sample Drawn On : 21/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Plan & Procedure : IS:17614 (Part):2021  
Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026  
Test Specification To Be Used : IS:10500:2012

### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-15185:2016	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-15185:2016	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
3.	Taste	IS-3025(P-7 &8)	Agreeable	Agreeable	Agreeable
4.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
5.	Temperature, (°C)	IS-3025(P-09)	3.0	-	-
6.	pH value	IS-3025(P-11)	7.28	6.5-8.5	-
7.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	94	500	2000

Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
8.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	45	200	600
9.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	9.6	75	200
10.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	16	250	1000
11.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	45	200	600
12.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	5.10	30	100
13.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	<1.0	200	400
14.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<0.1	45	No Relaxation
15.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
16.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
17.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
18.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
19.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
20.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
21.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
22.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
23.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
24.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
25.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
26.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
27.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
28.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	6.0	15
29.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

### 4. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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## 5. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
3.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-Method 8270E	BDL(0.05)	1.0max	No Relaxation
4.	Alpha HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.01max	No Relaxation
5.	Beta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
6.	Delta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
7.	Gamma-HCH (Lindane), (µg/l)	USEPA-Method 8270E	BDL(0.05)	2.0max	No Relaxation
8.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-Method 8270E	BDL(0.05)	0.4max	No Relaxation

The detection limit of individual pesticide is 0.01µg/l

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)

\*\*\*End of Report\*\*\*



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## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters, (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters, (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
2.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
3.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
4.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
5.	Chlorpyrifos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
6.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
7.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
8.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
9.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
10.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
11.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

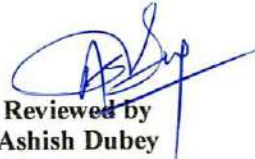
**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

Hence water is fit for Drinking purpose.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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TC-11181

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## TEST REPORT

### Water Sample Analysis

Report Code:W-230126-41

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
 (A State Government under Taking) Chanju – III HEP (48 MW)  
 Contractor Name - MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Ground Water Sample  
 Sampling Location : Under Ground Water  
 Source of Water : -  
 Sample Drawn On : 21/01/2026  
 Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
 HPPCL Representative : Mr. Rahul Sharma Ji  
 Site Representative : Mr. Santhil Kumar Ji  
 Sampling Plan & Procedure : IS:17614 (Part):2021  
 Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
 Weather Condition : Clear  
 Sample Received On : 23/01/2026  
 Analysis Duration : 23/01/2026 To 27/01/2026  
 Test Specification To Be Used : IS:10500:2012

### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
3.	Taste	IS-3025(P-7 & 8)	Agreeable	Agreeable	Agreeable
4.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
5.	Temperature, (°C)	IS-3025(P-09)	3.0	-	-
6.	pH value	IS-3025(P-11)	7.52	6.5-8.5	-
7.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	110	500	2000

Reviewed by  
 Ashish Dubey  
 (Sr. Analyst)



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### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
8.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	82	200	600
9.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	15.6	75	200
10.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	16	250	1000
11.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	46	200	600
12.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	10.45	30	100
13.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	5.91	200	400
14.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<0.1	45	No Relaxation
15.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
16.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
17.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
18.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
19.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
20.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
21.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
22.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
23.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
24.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
25.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
26.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
27.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
28.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	5.0	15
29.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

### 4. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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Doc. No. – ITS/7.8-01

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## 5. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
3.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-Method 8270E	BDL(0.05)	1.0max	No Relaxation
4.	Alpha HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.01max	No Relaxation
5.	Beta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
6.	Delta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
7.	Gamma-HCH (Lindane), (µg/l)	USEPA-Method 8270E	BDL(0.05)	2.0max	No Relaxation
8.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-Method 8270E	BDL(0.05)	0.4max	No Relaxation

The detection limit of individual pesticide is 0.01µg/l

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01

Report Code: W-230126-41, Page No. – 4 of 4

## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters, (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters, (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:


S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
2.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
3.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
4.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
5.	Chlorpyrifos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
6.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
7.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
8.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
9.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
10.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
11.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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TC-11181

Doc. No. – ITS/7.8-01

Report Code: W-230126-42, Page No. – 1 of 4

## TEST REPORT

### Water Sample Analysis

Report Code:W-230126-42

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju – III HEP (48 MW)  
Contractor Name - MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Ground Water Sample  
Sampling Location : Village – Dehra  
Source of Water : -  
Sample Drawn On : 21/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Plan & Procedure : IS:17614 (Part):2021  
Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026  
Test Specification To Be Used : IS:10500:2012


### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
3.	Taste	IS-3025(P-7 & 8)	Agreeable	Agreeable	Agreeable
4.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
5.	Temperature, (°C)	IS-3025(P-09)	3.0	-	-
6.	pH value	IS-3025(P-11)	7.52	6.5-8.5	-
7.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	64	500	2000

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
8.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	31	200	600
9.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	8.8	75	200
10.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	10	250	1000
11.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	18	200	600
12.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	2.19	30	100
13.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	<1.0	200	400
14.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<0.1	45	No Relaxation
15.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
16.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
17.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
18.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
19.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
20.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
21.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
22.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
23.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
24.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
25.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
26.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
27.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
28.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	6.0	15
29.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

### 4. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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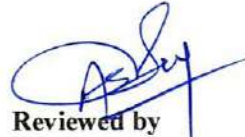
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## 5. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.03 max	No Relaxation
3.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-Method 8270E	BDL(0.05)	1.0max	No Relaxation
4.	Alpha HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.01max	No Relaxation
5.	Beta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
6.	Delta HCH, (µg/l)	USEPA-Method 8270E	BDL(0.01)	0.04max	No Relaxation
7.	Gamma-HCH (Lindane), (µg/l)	USEPA-Method 8270E	BDL(0.05)	2.0max	No Relaxation
8.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-Method 8270E	BDL(0.05)	0.4max	No Relaxation

The detection limit of individual pesticide is 0.01µg/l

  
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(Sr. Analyst)



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01

Report Code: W-230126-42, Page No. – 4 of 4

## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters, (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters, (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:


S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
2.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
3.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
4.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
5.	Chlorpyriphos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
6.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
7.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
8.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
9.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
10.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
11.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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Doc. No. – ITS/7.8-01

Report Code: W-230126-43, Page No. – 1 of 4

## TEST REPORT

### Surface Water Sample Analysis

Report Code:W-230126-43

Issue Date: 27/01/2026

Issued To: **M/s. Himachal Pradesh Power Corporation Limited**  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Surface Water Sample  
Sampling Location : Project Site – Up Stream Near Intake  
Source of Water : River Water  
Sample Drawn On : 21/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Plan & Procedure : IS:17614 (Part):2021  
Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026  
Test Specification To Be Used : IS:10500:2012

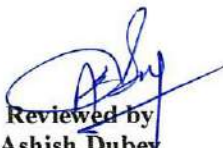
### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
3.	Temperature, (°C)	IS-3025(P-09)	2.0	-	-
4.	pH value	IS-3025(P-11)	7.52	6.5-8.5	-
5.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	108	500	2000

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



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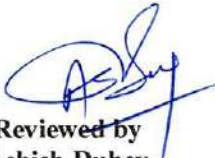
Report Code: W-230126-43, Page No. – 2 of 4

### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
6.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	66	200	600
7.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	10.4	75	200
8.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	8.0	250	1000
9.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	11.18	30	100
10.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	5.03	200	400
11.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<1.0	45	No Relaxation
12.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
13.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
14.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
15.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
16.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
17.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
18.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
19.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	5.0	15

### 4.Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

  
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(Sr. Analyst)



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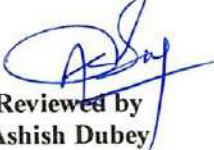
Report Code: W-230126-43, Page No. – 3 of 4

## 5. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
2.	Taste	IS-3025(P-7 &8)	Agreeable	Agreeable	-
3.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	30	200	600
4.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
5.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
6.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
7.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
8.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
9.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
10.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

  
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## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters, (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters, (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:


S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-508	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-508	BDL(0.01)	0.03 max	No Relaxation
3.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
4.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
5.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-508	BDL(0.05)	1.0max	No Relaxation
6.	Alpha HCH, (µg/l)	USEPA-508	BDL(0.01)	0.01max	No Relaxation
7.	Beta HCH, (µg/l)	USEPA-508	BDL(0.01)	0.04max	No Relaxation
8.	Delta HCH, (µg/l)	USEPA-508	BDL(0.01)	0.04max	No Relaxation
9.	Gamma-HCH (Lindane), (µg/l)	USEPA-508	BDL(0.05)	2.0max	No Relaxation
10.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-508	BDL(0.05)	0.4max	No Relaxation
11.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
12.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
13.	Chlorpyrifos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
14.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
15.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
16.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
17.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
18.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
19.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)



\*\*\*End of Report\*\*\*

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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)  
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)  
Website: www.itslab.in, Email: itlrlab@gmail.com, info@itslab.in, contact@itslab.in  
+91 9911659800, 9305780312, 09958849764



TC-11181

Doc. No. – ITS/7.8-01

Report Code: W-230126-44, Page No. – 1 of 4

## TEST REPORT

### Surface Water Sample Analysis

Report Code:W-230126-44

Issue Date: 27/01/2026

Issued To: M/s. Himachal Pradesh Power Corporation Limited  
(A State Government under Taking) Chanju –III HEP (48 MW)  
Contractor Name -MFB BHUMI PACKAGE – 1

### SAMPLING & ANALYSIS DATA

Sample Description : Surface Water Sample  
Sampling Location : Project Site – Down Stream Near Intake  
Source of Water : River Water  
Sample Drawn On : 21/01/2026  
Sample Drawn By : Mr. Vivek Kumar (ITS LAB Representative)  
HPPCL Representative : Mr. Rahul Sharma Ji  
Site Representative : Mr. Santhil Kumar Ji  
Sampling Plan & Procedure : IS:17614 (Part):2021  
Sample Quantity : 2.0 Liter in Pet Bottle & 500 ml Glass Sterilized Bottle  
Weather Condition : Clear  
Sample Received On : 23/01/2026  
Analysis Duration : 23/01/2026 To 27/01/2026  
Test Specification To Be Used : IS:10500:2012


### TEST RESULTS

#### 1. MICROBIOLOGICAL REQUIREMENT:

RESULTS				
S. No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	Escherichia coli, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml
2.	Coliform Bacteria, (MPN/100ml)	IS-1622:1981	Absent	Absent/100 ml

#### 2. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour, (Hazan)	IS-3025(P-04)	<5.0	5	15
2.	Turbidity, (NTU)	IS-3025(P-10)	<1.0	1	5
3.	Temperature, (°C)	IS-3025(P-09)	2.0	-	-
4.	pH value	IS-3025(P-11)	7.62	6.5-8.5	-
5.	Total dissolve solid (TDS), (mg/l)	IS-3025(P-16)	136	500	2000

  
Reviewed by  
Ashish Dubey  
(Sr. Analyst)

  
Authorized Signatory

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TC-11181

Doc. No. – ITS/7.8-01


Report Code: W-230126-44, Page No. – 2 of 4

### 3. GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
6.	Total Hardness (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 21)	93	200	600
7.	Calcium (as Ca), (mg/l)	IS: 3025 (P- 40)	14.0	75	200
8.	Chloride (as Cl), (mg/l)	IS: 3025 (P- 32)	11.0	250	1000
9.	Magnesium (as Mg), (mg/l)	IS: 3025 (P-46)	14.09	30	100
10.	Sulphate (as SO <sub>4</sub> ), (mg/l)	IS: 3025 (P- 24)	7.81	200	400
11.	Nitrate (as NO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 34)	<1.0	45	No Relaxation
12.	Iron (as Fe), (mg/l)	IS: 3025(P-53)	<0.05	1.0	-
13.	Fluoride (as F), (mg/l)	IS:3025(P-60,Sec-1)	<0.1	1.0	1.5
14.	Aluminum (as Al), (mg/l)	IS: 3025 (P- 55)	<0.01	0.03	0.2
15.	Boron (as B), (mg/l)	IS: 3025 (P- 57)	<0.1	0.5	1.0
16.	Copper (as Cu), (mg/l)	IS : 3025 (P-42)	<0.05	0.05	1.5
17.	Manganese (as Mn), (mg/l)	IS : 3025 (P-59)	<0.1	0.1	0.3
18.	Selenium (as Se), (mg/l)	IS: 3025 (P- 56)	<0.01	0.01	No Relaxation
19.	Zinc (as Zn), (mg/l)	IS: 3025 (P- 49)	<0.01	6.0	15

### 4. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd), (mg/l)	IS-3025 (P-41)	<0.001	0.003	No Relaxation
2.	Cyanide (as CN), (mg/l)	IS-3025 (P-27)	<0.01	0.05	No Relaxation
3.	Lead ( as Pb), (mg/l)	IS-3025 (P-47)	<0.01	0.01	No Relaxation
4.	Mercury (as Hg), (mg/l)	IS-3025 (P-48)	<0.001	0.001	No Relaxation
5.	Nickel (as Ni), (mg/l)	IS-3025 (P-54)	<0.01	0.02	No Relaxation
6.	Arsenic (as As), (mg/l)	IS-3025 (P-37)	<0.01	0.01	0.05
7.	Total Chromium (as Cr), (mg/l)	IS-3025 (P-52)	<0.05	0.05	No Relaxation

  
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(Sr. Analyst)



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Report Code: W-230126-44, Page No. – 3 of 4

## 5. ORGANOLEPTIC & PHYSICAL PARAMETERS:

S. No.	Parameter	Test method	Results	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Odour	IS-3025(P-05)	Agreeable	Agreeable	Agreeable
2.	Taste	IS-3025(P-7 &8)	Agreeable	Agreeable	-
3.	Total Alkalinity (as CaCO <sub>3</sub> ), (mg/l)	IS: 3025 (P- 23)	54	200	600
4.	Residual Free Chlorine, (mg/l)	IS: 3025 (P-26)	<0.1	0.2	1.0
5.	Anionic surface Detergents (as MBAS), (mg/l)	IS: 3025 (P-68)	<0.1	0.2	1.0
6.	Sulphide (as H <sub>2</sub> S), (mg/l)	IS-3025 (P-29)	<0.05	0.05	No Relaxation
7.	Total Ammonia, (mg/l)	IS: 3025 (P- 34)	<0.1	0.5	No Relaxation
8.	Chloramines (as Cl <sub>2</sub> ), (mg/l)	IS: 3025 (P- 26)	<1.0	4.0	No Relaxation
9.	Mineral Oil, (mg/l)	IS:3025(P-39), Clause 6	<0.5	0.5	No Relaxation
10.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH), (mg/l)	IS: 3025 (P-43)	<0.001	0.001	0.002

## 6. Parameters Concerning Toxic Substances:

S. No.	Parameter	Test method	Result	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Molybdenum (as Mo), (mg/l)	IS-3025(P-2)	<0.05	0.07	No Relaxation
2.	Silver (as Ag), (mg/l)	Annex J IS: 13428	<0.05	0.1	No Relaxation
3.	Barium (as Ba), (mg/l)	IS: 15302	<0.1	0.7	No Relaxation
4.	Poly nuclear Aromatic, (mg/l)	APHA 6440	<0.0001	0.0001	No Relaxation
5.	Poly chlorinated biphenyl, (mg/l)	APHA 6630	<0.0001	0.0005	No Relaxation
6.	Uranium (as U), (mg/l)	IS-3025(P-65)	<0.002	-	-
7.	Bromoform, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
8.	Dibromochloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.1	No Relaxation
9.	Bromodichloromethane, (mg/l)	APHA 6232	BDL(0.01)	0.06	No Relaxation
10.	Chloroform, (mg/l)	APHA 6232	BDL(0.01)	0.2	No Relaxation

  
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(Sr. Analyst)



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Report Code: W-230126-44, Page No. – 4 of 4

## 7. PARAMETERS CONCERNING RADIOACTIVE SUBSTANCES:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Alpha Emitters. (Bq/l)	IS:14194 (P-2)	BDL(0.1)	0.1	No Relaxation
2.	Beta Emitters. (Bq/l)	IS:14194 (P-1)	BDL(1.0)	1.0	No Relaxation

## 8. PESTICIDE RESIDUAL ANALYSIS:

S.NO.	Parameter	Test Method	Result	Limit (µg/l)	Permissible Limit in absence of alternate source
1.	Aldrin, (µg/l)	USEPA-508	BDL(0.01)	0.03 max	No Relaxation
2.	Dieldrin, (µg/l)	USEPA-508	BDL(0.01)	0.03 max	No Relaxation
3.	Alachlor, (µg/l)	USEPA-525.2	BDL(0.05)	20 max	No Relaxation
4.	Atrazine, (µg/l)	USEPA-525.2	BDL(0.05)	2 max	No Relaxation
5.	DDT(o,p & p,p-isomers of DDT, DDE& DDD), (µg/l)	USEPA-508	BDL(0.05)	1.0max	No Relaxation
6.	Alpha HCH, (µg/l)	USEPA-508	BDL(0.01)	0.01max	No Relaxation
7.	Beta HCH, (µg/l)	USEPA-508	BDL(0.01)	0.04max	No Relaxation
8.	Delta HCH, (µg/l)	USEPA-508	BDL(0.01)	0.04max	No Relaxation
9.	Gamma-HCH (Lindane), (µg/l)	USEPA-508	BDL(0.05)	2.0max	No Relaxation
10.	Endosulfan (α,β and Sulphate), (µg/l)	USEPA-508	BDL(0.05)	0.4max	No Relaxation
11.	Monocrotophos, (µg/l)	USEPA-8141A	BDL(0.05)	1.0max	No Relaxation
12.	Ethion, (µg/l)	USEPA-1657A	BDL(0.05)	3.0 max	No Relaxation
13.	Chlorpyrifos, (µg/l)	USEPA-525.2	BDL(0.05)	30 max	No Relaxation
14.	Phorate, (µg/l)	USEPA-8141A	BDL(0.05)	2.0 max	No Relaxation
15.	2,4-Dichlorophenoxy Acetic acid, (µg/l)	USEPA-515.1	BDL(0.05)	30 max	No Relaxation
16.	Butachlor, (µg/l)	USEPA-525.2	BDL(0.05)	125 max	No Relaxation
17.	Isoproturon, (µg/l)	USEPA-532	BDL(0.05)	9.0max	No Relaxation
18.	Malathion, (µg/l)	USEPA-8141A	BDL(0.05)	190 max	No Relaxation
19.	Methyl parathion, (µg/l)	USEPA-8141A	BDL(0.05)	0.3 max	No Relaxation

**Remarks:** Based on above tested parameter, Water sample meets as per IS-10500:2012 in Specification.

BDL: Below Detection limit.

The detection limit of individual pesticide is 0.01µg/l

**Note:** - Report shall not be produce except in full without approval of the laboratory

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# RANA ENTERPRISES

Plastic Shipper Management, Plastic Recycler, Hazardous Waste Management  
3rd Party Logistics & Manpower Supply, Waste Oil Management

H. Office : Khasra No. : 435/113, Birds Century Guest House Vill, Sansarpur,  
P.O. Sansarpur Terrace, Tehsil - Jaswan, Distt - Kangra (H.P.) 176 501

Branch Office : VPO-Thana, Near Budget Sign Board, Teh. Baddi, Distt. Solan (H.P.) 173 205

Email : ranaenterprisesterrace@gmail.com

RefNo: 259

Dated:-18<sup>th</sup> Jan'2026

## MEMORANDUM OF UNDERSTANDING

**Ashok Chauhan & CO. (ACNC) Company**, registered under the Companies Act, situated at **Chanju-III Package-II HEP 48MW Village Lunekh, PO Chanju, Tehsil Churah, Distt. Chamba, HP, 176321**. Company is involved Hydro Project business.

Company generates Hazardous Waste i.e. used/waste oil /Plastic waste /Contaminated Barrel's coming out of automobile servicing carried out in their service station. The Company is interested to send generated hazardous waste material having referred of first party.

**M/s. Rana Enterprises**, Khasra No 435/113, VPO Sansarpur, Tehsil – Jaswan Kotla, Distt– Kangra, H.P. registered under Proprietorship firm having approval from H.P. State Pollution Board of collection, Transportation and Storage of Hazardous Used / Waste oil. Authorization No:

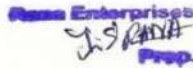
**PCB/HWMR(3255/R- 47)/ M/s. Rana Enterprises**

First party is interested to collect such waste from Industries here with referred as 1<sup>st</sup> Party. Hence the MOU with the following term & conditions:

1. The 1<sup>st</sup> Party will lift the used/waste oil from their premises of 2<sup>nd</sup> Party as & when there is sufficient stock load and 2<sup>nd</sup> party asked them to lift the material.
2. Any responsibility of disposal of used oil, empty barrels and plastic waste as per the waste lifted from 2<sup>nd</sup> Party will be with 1<sup>st</sup> party.

The MOU is signed today between both the parties through their authorized Signatory and valid From 18<sup>th</sup> Jan '2026 to 19th Jan '2027.

Iqbal Singh

  
Rana Enterprises  
Prop.

ON BEHALF OF FIRST PARTY

Mr.. Sailesh Prasad

  
ASHOK CHAUHAN

ON BEHALF OF SECOND PARTY

Registration no:.....

## **SURAKSHA BIO SANITIZER**

VILL DHUGIARI P. O. GAGGAL TEH. & DISTT. KANGRA (H.P)  
Head Office: - village bodarballa near Dr RPGMC TANDA Kangra  
Phone no: =83529 90555  
[www.surakshabiosanitizer.in](http://www.surakshabiosanitizer.in)  
Email id.surakshabio16@gmail.com

**AGREEMENT**

**DATE 10/01/2026**

This agreement is entered on this 10<sup>TH</sup> Day of JAN of the year..... 2026.....

**BETWEEN**

SURAKSHA BIO SANITIZER VILLAGE DHUGIARI P.O GAGGAL TESHIL AND DISTT.KANGRA HIMACHAL 176209

Through their representative - PAWAN THAKUR (MANAGER SURAKSHA BIO SANITIZER) S/o SH SOHAN LAL

**AND**

Name of Health Care Establishment (HCE):-

**ASHOK CHAUHAN & CO.( ACNC )**

(Herein after referred to as GENERATOR)

Full Address CHANJU-III PACKAGE-II HEP 48MW VILL LUNEKH PO CHANJU TEHSIL  
CHURAH DISTT CHAMBA

Authorizer Representative of GENERATOR:- SAILESH PRASAD Designation: GM

Contact No. 6295142520 E-Mail ID:- mfbacncjv@gmail.com

NOW THIS INDENTURE WITNESSETH and it is hereby covenant

### **Validity of the Agreement:-**

This agreement shall remain in force for a period of ONE Year w.e.f. 10<sup>TH</sup> Day of JAN of the year 2026 to 09<sup>TH</sup> Day of JAN of the year 2027 (Both days inclusive), and can be further renewed with mutual consent of both the parties

### **RESPONSIBILITIES OF SURAKSHA BIO SANITIZER:-**

Suraksha bio sanitizer shall meet all the rules and regulation stipulated by HPSPCB AND generator shall not be liable for any improper handling and management after collection of Bio Medical Waste from the Health Care Facility.

1. Suraksha Bio Sanitizer is liable for any violation of the Environment (Protection) act 1986 and the relevant rules, after collection of Bio Medical waste from the GENERATOR unit as per the agreement terms and conditions.
2. Suraksha Bio Sanitizer shall collect the segregated Bio Medical Waste from the identified common waste collection site in the premises of GENERATOR.

