



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

No. HPPCL/RCP/GM/ G-8 /2018-268-74

Dated: 21-05-2019

To

Dr. K.K. Garg,
Scientist C,
MoEF&CC, GoI,
MoEF&CC, GoI, Northern Regional Office,
25 Subhash Road, Dehradun-248001.
e-mail : moef.ddn@gov.in

Sub: Deothal Chanju (30MW) HEP in Churah Tehsil of Distt.Chamba (H.P) by HPPCL Environment clearance –regarding Six monthly progress report.

Ref: Your office letter No. NC-RO/ENV/HEP/HP/02/2017/1485 Dated 23.10.2018.

Sir,

As requisitioned vide your office letter under reference o the subject cited above, the point-wise 2nd six monthly progress report for the period 1.04.2018 to 30.09.2018 is being submitted as under please:

1.

Name of the Project Incharge/Address	Er. Anil Mohan Dutta General Manager Ravi & Chenab Projects, HPPCL, Sundla, Distt. Chamba -176312
Telephone No/Mobile No. /E-mai ID	01702-242042 8894988501 gmrpc7@gmail.com
Report No.	Two
Period of Reporting	01.10.2018. To 31.09.2018

2. The copy of Environment Impact Assessment and Environment Management Plan alongwith copy of the Proceedings of Environment Public Hearing has already been submitted to your office vide this office letter No.HPPCL/RCP/GM/G-8/2018-1079-85 Dated 21.11.2018 alongwith 1st six monthly report.

3. Techno economic clearance of the project has already been obtained from Directorate of Energy, HP Government during July,2015.

Forest case was submitted online in the web portal of MoEF&CC,GoI during February,2017 vide Proposal No. FP/HP/HYD/23695/2017. After attending all the observations raised by Nodal officer-cum- CCF (FCA), HP Forest Deptt. the hard copies of the proposal were submitted to Forest Deptt. Forest Case then was submitted to Addl. Pr.CCF (Central), MoEF&CC,GoI, RO Dehradun vide Nodal Officer-

Registered Office: Himfed Building, BCS,Nerw Shimla. (H.P) -171009

(CIN : U40101HP2006SGC030591)

Web Site: www.hppcl.gov.in, Email: cs_hpjvvn@yahoo.com, Phone Nos: 0177-2807923 Fax No. : 0177-2807923



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cum-APCCF (FCA), HP Forest Deptt. letter No. Ft.48-3524/2017(FCA) Dated 20.03.2018. Some observations raised by Addl. Pr.CCF (Central), MoEFCC, GoI, RO Dehradun vide letter dated 02.05.2019. Observations attended and case was resubmitted to Forerst Deptt. on dated 09.05.2019. Case is under process by Nodal officer-cum- CCF (FCA), HP Forest Deptt. The civil works of the project will be started after the grant of Forest Clearance from the competent Authority.

4. Pontwise compliance of the conditions imposed in Environment Clearance letter, is enclosed as **ANNEXURE-II**.

The report is also being sent by e-mail at moef.ddn@gov.in

Encl: As above.

Yours faithfully,

[Signature]
21/5/19
General Manager,
RCP, HPPCL, Sundla,
Distt. Chamba-176312.

Copy forwarded to the following for kind information please.

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

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2.

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Sr. No.	Part-A- Specific Conditions	Reply
I- Construction Phase:		
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.	Agreed. Needful shall be done in due course of time.
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.	Agreed. Compliance will be made.
3.	All required sanitary and hygienic measures should be taken before, during and after the completion of project.	Agreed. Sanitary and hygienic measures will be taken before, during and after the completion of project.
4.	A First Aid Room will be provided in the project both during construction and operation phase of the project.	Agreed. First Aid Room will be provided in the project both during construction and operation phase of the project.
5.	Adequate arrangements for safe disposal of waste water and solid waste generated during the construction phase shall be ensured.	Necessary measures will be taken for safe disposal of waste water and solid waste generated during the construction phase
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 will be disposed off in designated dumping sites only. The muck dumping sites will be protected by suitable RCC retaining structures.
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.	Agreed. This condition is being imposed in bidding document. All necessary tests will be carried out.
9.	Construction spoils including bituminous material and other hazardous materials including oil from construction equipments must not be allowed to contaminate water courses and the dump sites for	Agreed. Needful will be done.

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	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	
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.	Agreed. Hazards waste generated during construction phase will be disposed off as per applicable rules and norms with necessary approvals of the competent authority.
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 will be provided with acoustic enclosures.
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 conform to applicable air and noise emission standards, should have vehicle pollution check certificate and should be operated only during non-peaking hours.	Vehicles used during construction phase will meet the air/noise emission standards.
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, SO2 and NOx) 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 .	Agreed. Noise level will be maintained during construction. This condition is being imposed in bidding document.
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 obtained for structure safety of the buildings due to earthquake , adequacy of fire fighting requirements	Agreed

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	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
II	Operational Phase	
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.	Agreed
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.	ETP/STP will be installed before the start of Civil works. Forest Clearance case is under process with Forest Deptt.
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 .	The solid waste generated will be properly collected and segregated . . Wet garbage will be composted and dry /inert solid waste will be disposed of to the approved sites for land filling after recovering recyclable materials .
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 competent authority .	DG Sets will be installed and used as per EPA,1986
5.	Noise should be controlled to ensure that it does	The noise levels will be kept within the

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	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.	prescribed limits
6.	Necessary arrangements for rain water harvesting for roof run – off and surface run – off should be made.	Agreed. Necessary arrangements for rain water harvesting for roof run – off and surface run – off will be made.
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.	Agreed
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.	Needful will be done.
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 prevelling guidelines/rules of the regularity authority to avoid mercury contamination. Use of solar panels may be done to the possible extent.	Needful will be done.
10.	Adequate steps should be taken to prevent odour problem from solid based processing site and STP.	Necessary precautions will be taken.
11.	Stripling of water etc. be use for air pollution control during construction phase so as to avoid disturbance to the surroundings.	Necessary precautions will be taken.
Part- B General Conditions:		
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 should be implemented in letter and spirit.
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	Full co -operation will be given to the authorities.

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	documents/data by the project proponents during their inspection.	
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.	Needful will be 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.	All statutory clearance will be obtained from competent authorities before start of construction work of the project.
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
Part-C	Special Conditions:	
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 fro 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	Agreed.

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	Pradesh Policy.	
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.	
7.	The Project Proponent shall not under take 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 grant of Forest clearance from competent authority.
8.	The lying of transmission lines shall not be part of present Environment Clearance.	Agreed
9.	He 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.	Needful will be done.
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 an affidavit to this account.	Needful will be done. Precautions will be taken. Project proponent shall submit an affidavit to this account award of construction works.
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 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
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.

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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.	Needful will be done to avoid any issues regarding general safety and health aspects of public.
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.	Needful will be done.
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 will be carried out from time to time
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.	Needful will be done .
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 has to be deposit 2.5% of the total project cost as CAT Plan cost. Comprehensive CAT Plan Ravi basin by Forest Deptt. will be 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.	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.
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	Agreed

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	construction phases given in EIA/EMP report.	
25.	The project proponent shall establish effective Environment Monitoring Cell during the construction phase itself.	Agreed.
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 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.	Needful will be done.
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).	Needful will be done.
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.	Needful will be done
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.	Needful will be done The condition is being incorporated in bidding document.
33.	During the construction phase, the PP shall ensure that water sprinkling is done for preventing the dust/air pollution.	Needful will be done as per site conditions.
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	Needful will be done as per site

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	solid waste management viz; collection, segregation, transportation to the site and final disposal. The SWM and waste water management shall be the sole responsibility of the Developer.	conditions.
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



Er. Vishal Sharma,
Manager (Environment)