

Six monthly Monitoring Report on  
Compliance of Conditions Stipulated in Environment Clearance of Chamera Power Station, Stage-III

( April-2022 to Sep-2022)

1.	Name of the Project	Chamera Hydropower Station, Stage-III (231MW)																					
2.	Project Type	Hydroelectric Project																					
3.	Clearance letter (s). C.M No. & dates a. Environment Clearance  b. Forest Clearance	J-12011/6/2004-IA-I dated 10.03.2005.  (i) 8-111/2002-FC dated 19.09.2005. (ii) 8-111/2002-FC dated 09.07.2009																					
4.	Location a) District (s) b) State (s) c) Latitude d) Longitude	Chamba Himachal Pradesh 32° 26'N to 32° 30'N 76° 17'E to 76° 28'E																					
5.	Address for Correspondence: a) Address of concerned HOP (with pin code and telephone/ fax nos.)  b) Address of concerned HoD in Corporate Office (with pin code & telephone/ fax nos.)	Group General Manager (I/C) Chamera-III Power Station, NHPC Ltd. Dharwala, Post Bag No.9, Distt. Chamba H.P.-176311 Tele-01899-279536, Fax: 01899-279698  Executive Director (Environment & Diversity Management) NHPC Ltd., Sector-33, Faridabad 121003 Tele: 0129-2278014																					
6.	Details of Environmental Management Plans (EMPs)	As Per Annexure-I																					
7.	Break – up of the project area : a) Submergence area i) Forest area ii) Non-forest  b) Others i) Forest area ii) Non-forest	a) Submergence area i) 29.900 ha ii) 0.0072 ha (Pvt.Land)  b) Others i) 69.075 ha ii) 11.5322 ha (Pvt. Land)  Total: 110.5114 ha																					
8	Break-up of the Project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans.  a) SC/ST/Adivasis b) Others	<table border="1"> <tr> <td colspan="3">(i) PAF details as per R&amp;R Scheme-2011</td> </tr> <tr> <td>i</td><td>PAFs whose entire land has been acquired</td><td>Nil</td> </tr> <tr> <td>ii</td><td>PAFs who have become landless (i.e balance agriculture land left after acquisition is less than 5 bigha as per R&amp;R Scheme)</td><td>92</td> </tr> <tr> <td>iii.</td><td>Other PAFs (i.e whose balance agriculture land left after acquisition is more than 5 bigha as per R&amp;R Scheme-2011)</td><td>180</td> </tr> <tr> <td colspan="2">Sub-total PAF</td><td>272</td> </tr> <tr> <td colspan="3">(a) SC/ST PAFs : SC-09, ST-16</td> </tr> <tr> <td colspan="3">(b) Others : 247</td> </tr> </table>	(i) PAF details as per R&R Scheme-2011			i	PAFs whose entire land has been acquired	Nil	ii	PAFs who have become landless (i.e balance agriculture land left after acquisition is less than 5 bigha as per R&R Scheme)	92	iii.	Other PAFs (i.e whose balance agriculture land left after acquisition is more than 5 bigha as per R&R Scheme-2011)	180	Sub-total PAF		272	(a) SC/ST PAFs : SC-09, ST-16			(b) Others : 247		
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		<p>(ii)Further, State Government has issued notification for R&amp;R Award amounting Rs 14.13 Crores under RFCTLARR Act 2013 on 05.01.2018 (R&amp;R Award) &amp; 24.03.2018 (Corrigendum) for acquisition of 93-02-02 bigha land with a list of additional 241 numbers of PAFs.</p> <p>Break-up details of PAFS (241 nos.)  (a) SC-17, ST-15  (b) Others: 209</p>
9.	<p>Financial details</p> <p>a) Project cost as originally planned and subsequent revised estimates and the years of price reference:</p> <p>b) Actual expenditure incurred on the Project so far.</p> <p>c) Allocation made for environmental management plans.</p> <p>d) Actual expenditure incurred on the environmental management plans so far</p>	<p>(a)Rs.1405.63 Crores at Feb'05 PL.  Rs.2048.12 Crores (revised cost submitted for approval)</p> <p>(b)Rs.1877.66 Crores till Commercial Operation Date(COD)</p> <p>(c)Rs. 4659.80 Lakhs (EMP) + 1000.00 Lakhs (R&amp;R)  = Rs.5659.80 Lakhs</p> <p>(d)Rs. 5406.95 Lakhs (Annexure-I)</p>
10.	<p>Forest Land requirements</p> <p>a) Status of approval for diversion of forestland for non-forestry use.</p> <p>(b)The status of clear felling in Forestland.</p>	<p>(i) Forest Clearance (Stage-II) for diversion of 96.145 ha of forestland was accorded vide MoEF letter No. 8-111/2002-FC dated 19.09.2005.</p> <p>(ii) Forest clearance (St-II) for diversion of additional 2.83 ha of forestland for muck disposal sites was accorded vide MoEF letter No. 8-111/2002-FC dated 09.07.2009.</p> <p><i>After commissioning of Chamera-III, project authority has surrendered 33.33 ha of diverted forest land back to the concerned Forest Divisions(DFO Chamba, Bharmour &amp; Wild life Division,Chamba) vide Project's letter No. NH/CPS-III/CE(civil)/2018-64 dated 13.7.2018 in compliance to the condition no. xvii stipulated in FC letter dated 19.9.2005. The acknowledgement of the same is still awaited from State Forest Department.</i></p> <p>Total clear felling: 541 trees.</p>
11.	<p>Status of construction</p> <p>a) Date of commencement (actual and/ or planned)</p> <p>b) Date of completion (actual and/ or planned).</p>	<p>a) 01.09.2005 (Actual)</p> <p>b) 04.07.2012 (Actual)</p>
12.	Reasons for the delay. If the project is yet to start:	Not applicable, as Project has already been Commissioned.

13.	<p>Details of site visits</p> <p>a) By Monitoring Committee</p> <p>b) By Regional Office,MOEF</p>	<p>Last site visit/Meeting held:</p> <p>4<sup>th</sup> meeting of Monitoring committee held on 16<sup>th</sup> &amp; 17<sup>th</sup> December, 2020.</p> <p>The representative of RO, MOEF&amp;CC,Dehradun visited the site from 3rd-4th Nov 2020. Also, Site visit conducted during EMC meeting held on 16<sup>th</sup>-17<sup>th</sup> December 2020.</p>
14.	Brief note on the status of compliance of the conditions stipulated by MoEF.	Enclosed at Annexure – ‘II’.

Annexure-I			
Budget allocation and Expenditure incurred on Environment Management Plan(EMP) of Chamera-III Power Station(till Sept,2022 )			
S.No.	EMP	Budget Allocation (Rs. in lakhs)	Expenditure (Rs. in lakhs)
1.	Catchment Area Treatment	2981.53	2967.92
2.	Biodiversity Conservation		
3.	Fisheries Development	120.00	120.00
4.	Public Health Delivery System	148.95	69.54 + 143.28*
5.	Fuel Arrangement	150.00	103.81*
6.	Restoration of Muck Dumping Sites	807.12	1482.26* +210.29
7.	Restoration of quarries & construction area	148.00	**
8.	Green Belt Development	25.00	15.00
9.	Dam break modelling & Disaster Management Plan	199.20	**
10.	Env. Monitoring Program <sup>#</sup>	80.00	167.21
11.	R&R Plan	1000.00	1856.99
Total ( Rs in lakhs)		5659.80	5406.95
<p>* Cost for providing free fuel, health facilities to labourers and protection works in dumping sites by the contractor is included in the unit price for other item of civil work therefore it is not included in the expenditure made on EMP.</p> <p>**Various activities already accomplished under different financial heads of project.</p> <p># Himachal Pradesh SPCB and Chamera-III Power Station(NHPC) has signed an environment monitoring Planfor air,water sampling.</p>			

Annexure-II		
Status of Compliance of conditions stipulated in EC letter No.J-12011/6/2004-IA-I dated 10.03.2005 of Chamera HEP Stage-III(231MW)		
	Part-A Special Conditions	Compliance Report
i	Catchment Area Treatment Plan as has been proposed should be completed in five years.	<p>Chamera-III Project has deposited total amount of Rs.2926.53 Lakhs to H.P State Forest Department for implementation of CAT works. Activities of Wildlife &amp; Biodiversity Conservation and management are integrated in the CAT Plan. In addition, articles (in kind) amounting to Rs.41.39 lakhs provided to H.P Forest Department against the total provision for infrastructure development under the CAT Plan.</p> <p>Out of total fund deposited for CAT works, it also includes Rs.87.00 lakhs deposited with Deputy Commissioner, Chamba on 26.10.2007 towards development of Rural Infrastructure, Agriculture &amp; Horticulture Support and Animal Husbandry Support under CAT Plan.</p> <p>The CAT works are being implemented by State Forest Deptt, Distt. Chamba and progress in this regard is being submitted to this Power Station.</p> <p>The details of progress are as under:</p> <p>(i) Out of Rs 87 lakh deposited to DC,Chamba, utilization certificate of Rs 1.5 lakh has been received vide letter 21.10.2019.</p> <p>(ii) The DFO, Bharmour H.P. Forest Division, vide letter dated 15.10.2022 has submitted cumulative financial progress of Rs. 1381.192 lakhs upto Sep 2022.</p> <p>(iii)The DFO (Wildlife Division), Chamba vide letter No. 2270 dated 05.11.2020 had provided cumulative financial progress report of Rs 687.87 lakhs till Sep 2020.</p> <p>Therefore, cumulative financial progress of Rs 2070.562 Lakhs has been forwarded by State Forest Deptt. to Chamera-III Power Station.</p> <p>During the Environment Monitoring Committee meeting held on 16<sup>th</sup> &amp; 17<sup>th</sup> Dec 2020 at Karian, it was decided to reconcile total expenditure incurred under CAT works and availability of balancefunds for execution of CAT works.</p> <p>Power Station had requested to CCF,Chamba vide letter dated 20.3.2021 to constitute Biodiversity Conservation Cell as per EMP to expedite CAT works. The reply is awaited.</p> <p>The updated status of CAT works and utilization details of fund thereof have been requested from DFO,Chamba, DFO,Bharmour, DFO(WL),Chamba, DC,Chamba vide Power Station's letter dated 12.4.2021, 29.9.2021 and 4.10.2021. The reply is awaited.</p>
ii	NHPC should submit the information regarding adequacy of spillway capacity of Chamera-I Dam in case of extreme	NHPC had provided requisite information/data to CWC for analysis. Accordingly, CWC vide letter dated 21.11.2008 conveyed its views, which is confirming that PMF of 24417cumecs can be passed from spillway and sluices with 10% inoperative condition.

	eventuality of floods from upstream projects to Central Water Commission and any suggestions made by CWC will be taken care of by NHPC.																																									
iii	157 families of the three villages of Churi, Moukhari and Sulakhar will be affected. The affected families should be rehabilitated as per R&R Plan proposed & submitted.	<p>(i) The Deputy Commissioner, Chamba (vide letter no. RRO/CBA/R&amp;RScheme/CHEP-III/2010/4809-18 dated 01.03.2011) had notified R&amp;R Scheme for the Project Affected Families (PAF). As per the said scheme, 272 nos. of PAFs have already been given compensation.</p> <p>(ii) In addition, 241 nos. of PAFs have also been given compensation under new land acquisition Act “RFCTLARR Act, 2013 (vide R&amp;R award dated 05.01.2018 &amp; Corrigendum dated 24.3.2018) for acquisition of 93-02-02 bigha land.</p>																																								
	<b>Part B:</b> <b><u>General Conditions</u></b>																																									
i	Adequate free fuel arrangement should be made for the labour force engaged in construction work at project cost so that indiscriminate felling of trees is prevented.	Project has been commissioned in 2012. As such no labour is residing at Project site now.																																								
ii	Fuel depot may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.	<p>Project has been commissioned in 2012. As such no labour is residing at Project site now.</p> <p>Moreover, Chamera-III Power Station has its own dispensaries at powerhouse and dam site. Doctors and paramedical staffs are available for primary and emergency treatments for NHPC staff as well as local people. One ambulance is also available. Details of patients treated at dispensaries during the last six month period (April-2022 to Sep-2022) are given below:</p> <table><tr><th>Patient Treated(nos.)</th><th>April 2022</th><th>May 2022</th><th>June 2022</th><th>July 2022</th><th>Aug 2022</th><th>Sep 2022</th><th>Total</th></tr><tr><td>NHPC staff</td><td>484</td><td>556</td><td>569</td><td>497</td><td>434</td><td>383</td><td>2923</td></tr><tr><td>Contract Staff/CISF</td><td>376</td><td>251</td><td>293</td><td>369</td><td>99</td><td>118</td><td>1506</td></tr><tr><td>Locals/Project affected</td><td>322</td><td>605</td><td>705</td><td>565</td><td>680</td><td>565</td><td>3442</td></tr><tr><td>Total patients treated</td><td>1182</td><td>1412</td><td>1567</td><td>1431</td><td>1213</td><td>1066</td><td>7871</td></tr></table>	Patient Treated(nos.)	April 2022	May 2022	June 2022	July 2022	Aug 2022	Sep 2022	Total	NHPC staff	484	556	569	497	434	383	2923	Contract Staff/CISF	376	251	293	369	99	118	1506	Locals/Project affected	322	605	705	565	680	565	3442	Total patients treated	1182	1412	1567	1431	1213	1066	7871
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iii	All the labourers to be engaged for construction	The project has been commissioned. As such no labour is residing at Project site now.																																								

	works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	<p>Restoration of Muck disposal sites have been done by suitable plantation by HP State Forest Department as detailed below:</p> <ul style="list-style-type: none"> <li>Chamera-III Project had released total Rs135.55 Lakhs (Rs113.21+Rs6.34+Rs16) to H.P. Forest Department for undertaking reclamation/plantation and maintenance works at dumping sites.</li> <li>Out of which, the utilization certificate of fund amounting to Rs 124.14 lakh (up to March 2019) has been submitted by State Forest Deptt (O/o DFO, Chamba) vide letter dated 03.04.2019 for executing reclamation measures (Afforestation, soil conservation) at 14 nos. of dumping sites. Further, progress report/UC till Sept., 2022 is awaited.</li> </ul> <p>Dumping Sites and other forestland (33.33ha) which were not in use of Power Station was surrendered back to State Forest Deptt., Chamba vide letter No. NH/CPS-III/CE(civil)/2018-64 dated 13.7.2018. However, acknowledgement of State Forest Deptt. is still awaited.</p> <p>The matter was appraised to DFO during Environment monitoring committee meeting held on 16<sup>th</sup> -17<sup>th</sup> December 2020 at Karian.</p>
v	Financial provision should be made in the total budget of the project for implementation of the above suggested measures.	<p>Complied with.</p> <p>Appropriate financial provision was made in total budget of the project for implementation of the above safeguard measures/EMP.</p>
vi	A monitoring Committee for R & R should be constituted which must include representatives of project affected persons from a woman beneficiary.	<p>R &amp; R Plan was notified by Deputy Commissioner, Chamba on 01.03.2011. Project has requested to Deputy Commissioner, Chamba vide letter no. NH/CH-III/Env.4/2012/652 dated 16.02.2012 for constitution of a monitoring committee to oversee implementation of R&amp;R Plan. Further, vide project's letters dated 11.02.2015, 10.02.2017, 14.10.2017 &amp; 08.03.2018 have also been requested for constitution of monitoring committee for R&amp;R, however reply is awaited.</p> <p>Presently, compensation to the eligible PAF has already been disbursed by the Land Acquisition Officer. The same was appraised to the environment monitoring committee during its meeting held on 16<sup>th</sup> &amp; 17<sup>th</sup> December 2020.</p>

<b>vii</b>	A multidisciplinary committee should be constituted with representative from various disciplines of forestry, ecology, wildlife, soil conservation, NGO etc. to oversee the effective implementation of the suggested safeguard measures.	<p>Complied with.</p> <p>A multidisciplinary Committee was constituted vide circular dated NH/CH- III/Env/10/06/345 dated 15.09.2006 and further revised vide letter NNH/CH-III/Env/10/2017/44-57 dated 13.10.2017.</p>
<b>viii</b>	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	<p>Six monthly report was regularly submitted to the Ministry and its Regional Office (Dehradun) till May, 2021. Since November, 2021, Six monthly Report is being submitted to Integrated Regional Office, MOEF&amp;CC, Shimla alongwith MOEF&amp;CC, New Delhi.</p> <p>The last six monthly report was submitted vide letter No. NH/Env &amp; DM/Env.110/63 dated 30.05.2022 as an attachment with email to <a href="mailto:iro.shimla-mefcc@gov.in">iro.shimla-mefcc@gov.in</a> and <a href="mailto:yogendra78@nic.in">yogendra78@nic.in</a>.</p>

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