

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

(Oct.-2023 to March-2024)

| 1.                                     | Name of the Project   | Chamera Hydropower Station, Stage-III (231MW)  |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
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| 2.                                     | Project Type  | Hydroelectric Project  |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
| 3.                                     | Clearance letter (s). C.M No. & dates<br>a. Environment Clearance<br><br>b. Forest Clearance  | J-12011/6/2004-IA-I dated 10.03.2005.<br><br>(i) 8-111/2002-FC dated 19.09.2005.<br>(ii) 8-111/2002-FC dated 09.07.2009  |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
| 4.                                     | Location<br>a) District (s)<br>b) State (s)<br>c) Latitude<br>d) Longitude  | Chamba<br>Himachal Pradesh<br>32° 26'N to 32° 30'N<br>76° 17'E to 76° 28'E   |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
| 5.                                     | Address for Correspondence:<br>a) Address of concerned HOP (with pin code and telephone/ fax nos.)<br><br>b) Address of concerned HoD in Corporate Office (with pin code & telephone/ fax nos.)   | General Manager (I/C)<br>Chamera-III Power Station, NHPC Ltd.<br>Dharwala, Post Bag No.9, Distt. Chamba<br>H.P.-176311<br>Tele-01899-279536, Fax: 01899-279698<br><br>Executive Director<br>(Environment & Diversity Management)<br>NHPC Ltd., Sector-33, Faridabad 121003<br>Tele: <b>0129-2254038</b>  |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
| 6.                                     | Details of Environmental Management Plans (EMPs)  | As Per Annexure-I  |  |  |  |   |  |     |    |  |    |      |  |     |               |  |     |                               |  |  |                  |  |  |
| 7.                                     | Break – up of the project area :<br>a) Submergence area<br>i) Forest area<br>ii) Non-forest<br><br>b) Others<br>i) Forest area<br>ii) Non-forest  | a) Submergence area<br>i) 29.90 ha<br>ii) 0.0072 ha (Pvt. Land)<br><br>b) Others<br>i) 69.07 ha<br>ii) 11.53 ha (Pvt. Land)<br><br>Total: 110.51 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.<br><br>a) SC/ST/Adivasis<br>b) Others | <table border="1"> <tr> <th colspan="3">(i) PAF details as per R&amp;R Scheme-2011</th></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 |  |  |
| (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. 02 Nos. PAFs added vide Additional Award No. LAO/CHEP-III/R&amp;R-Mokhri(1)/2021-1286-1229 dated 28.10.2021.</p> <p>Break-up details of PAFS (243 nos.)<br/> (a) SC-17, ST-15<br/> (b) Others: 211</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.<br/> 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)<br/> = 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.   |

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| 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>a) 4th meeting of Monitoring committee held on 16th &amp; 17th December, 2020.</p> <p>b) The representative of RO, MoEF&amp;CC, Dehradun visited site from 3<sup>rd</sup>-4<sup>th</sup> 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<br>Environment Management Plan of Chamera-III<br>Power Station(till <b>March, 2024</b> )  |   |                   |                     |
| S.No.   | EMP   | Budget Allocation | 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            | 143.28*<br>+ 69.54  |
| 5.  | Fuel Arrangement                                  | 150.00            | 103.81*             |
| 6.  | Restoration of Muck Dumping Sites                 | 807.12            | 1482.26*<br>+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             |
| <b>Total ( Rs in lakhs)</b>   |   | <b>5659.80</b>    | <b>5406.95</b>      |
| <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 under this head already accomplished under different financial heads of project.</p> <p>*** Various activities such as installation of warning systems, VSAT communications system, Early warning system etc. have already been accomplished under different financial heads of Project.</p> <p><sup>#</sup> Himachal Pradesh SPCB and Chamera-III Power Station (NHPC) has signed an environment monitoring Planfor air, water sampling.</p> |   |                   |                     |

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>Fund deposited for CAT works 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 05.01.2023 has submitted cumulative financial progress of Rs. 1381.192 lakhs up to December 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 provided by State authorities 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 balance funds 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, 4.10.2021, 26.05.2022, 21.10.2022, 28.07.2023, <b>11.10.2023 &amp; 18.01.2024. The utilization of expenditure is received from DFO, Bharmour only while the reply from others is awaited.</b></p> |
| ii | NHPC should submit the information regarding adequacy of spillway capacity of Chamera-I Dam in case of extreme | <p>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 24417 cumecs can be passed from spillway and sluices with 10% In operative condition.</p>  |

|                         | 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><br><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 <b>(Oct.-2023 to March-2024)</b> are given below:</p> <table><tr><th>Patient Treated (nos.)</th><th>Oct. 2023</th><th>Nov. 2023</th><th>Dec. 2023</th><th>Jan. 2024</th><th>Feb. 2024</th><th>March 2024</th><th>Total</th></tr><tr><td>NHPC staff</td><td>81</td><td>57</td><td>85</td><td>100</td><td>106</td><td>123</td><td>552</td></tr><tr><td>Contract Staff/CISF</td><td>14</td><td>06</td><td>15</td><td>21</td><td>27</td><td>44</td><td>127</td></tr><tr><td>Locals/Project affected</td><td>49</td><td>19</td><td>37</td><td>179</td><td>163</td><td>420</td><td>867</td></tr><tr><td>Total patients treated</td><td>144</td><td>82</td><td>137</td><td>300</td><td>296</td><td>587</td><td>1546</td></tr></table> | Patient Treated (nos.) | Oct. 2023 | Nov. 2023 | Dec. 2023  | Jan. 2024 | Feb. 2024 | March 2024 | Total | NHPC staff | 81 | 57 | 85 | 100 | 106 | 123 | 552 | Contract Staff/CISF | 14 | 06 | 15 | 21 | 27 | 44 | 127 | Locals/Project affected | 49 | 19 | 37 | 179 | 163 | 420 | 867 | Total patients treated | 144 | 82 | 137 | 300 | 296 | 587 | 1546 |
| Patient Treated (nos.)  | Oct. 2023   | Nov. 2023   | Dec. 2023              | Jan. 2024 | Feb. 2024 | March 2024 | Total     |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |
| NHPC staff              | 81  | 57  | 85                     | 100       | 106       | 123        | 552       |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |
| Contract Staff/CISF     | 14  | 06  | 15                     | 21        | 27        | 44         | 127       |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |
| Locals/Project affected | 49  | 19  | 37                     | 179       | 163       | 420        | 867       |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |
| Total patients treated  | 144   | 82  | 137                    | 300       | 296       | 587        | 1546      |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |
| iii                     | All the labourers to be engaged for construction  | The project has been commissioned. As such no labour is residing at Project site now.   |                        |           |           |            |           |           |            |       |            |    |    |    |     |     |     |     |                     |    |    |    |    |    |    |     |                         |    |    |    |     |     |     |     |                        |     |    |     |     |     |     |      |

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|     | 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 through HP State Forest Department. In this regard, Chamera-III Project had released total Rs. 135.55 lakhs (Rs113.21+6.34+16) to H.P. Forest Department for undertaking reclamation/plantation and maintenance works at dumping sites. 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 in this regard is awaited.</p> <p>Dumping Sites and other forestland (33.33ha) which are not in use of Power Station has been 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 Department is still awaited.</p> <p>The matter has been 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, it was also requested by Project authorities vide 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. During the Meeting of EMC held on 16<sup>th</sup> &amp; 17<sup>th</sup> December 2020, the DC, Chamba informed that R&amp;R committee shall be constituted to oversee the matter related to R&amp;R Scheme-2011.</p>   |
| vii | A multidisciplinary committee should be constituted with representative from various disciplines of forestry, ecology, wildlife, soil conservation, NGO etc. to oversee the effective                                   | <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 NH/CH-III/Env/10/2017/44-57 dated 13.10.2017.</p>  |

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|             | implementation of the suggested safeguard measures.  |  |
| <b>viii</b> | Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review. | <p>Six monthly monitoring report is being submitted regularly to MOEF&amp;CC, Regional office, Dehradun and MOEF&amp;CC, New Delhi.</p> <p>The last six monthly report was submitted vide letter No. NH/Env &amp; <b>DM/Env.110/618 dated 30.11.2023</b> as an attachment with email to <a href="mailto:iro.shimla-mefcc@gov.in">iro.shimla-mefcc@gov.in</a> and <a href="mailto:env.iroshimla-moefcc@gov.in">env.iroshimla-moefcc@gov.in</a>.</p> |

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