

**SIX MONTHLY PROGRESS REPORT ON ENVIRONMENTAL ASPECTS OF**  
**CHUTAK POWER STATION**

(Period ending March, 2024)

<b>1.</b>	Name of the Project	Chutak Power Station (44 MW)																																				
<b>2.</b>	Project Type	Hydro-Electric Project																																				
<b>3.</b>	Clearance letter(s) O.M. No. & dates a. Environment clearance b. Forest clearance	J-12011/61/2001-IA-I dated 17.11.2005 & Corrigendum dated 22-11-2005 & 19-12-2005.  Project does not involve any forest land; hence Forest clearance is not required. No objection certificate to this effect was issued by J&K State Government vide letter dated 24-06-2004.																																				
<b>4.</b>	<b>Location</b> a) District (s) b) State (s)/UTs c) Latitude d) Longitude	Kargil UT of Ladakh 34° 27'N 76° 05'E																																				
<b>5.</b>	<b>Address for Correspondence</b> a. Address of concerned Project Chief Engineer (with Pin code telephone/fax nos.)  b. Address of concerned HOD in Corporate Office (with PIN code & telephone/fax nos.)	a) General Manager (E)/ HoP Chutak Power Station, Village Minji, Kargil, UT of Ladakh- 194103 Tel: 01985-233709 Fax: 01985- 233689  b) Executive Director (Env. & Div. Management), NHPC Office Complex, Sector-33, Faridabad-121 003 Tel: 0129 – 2254038 Email id : envdivmgn-co@nhpc.nic.in																																				
<b>6</b>	Details of Environment Management Plans	<p>Following Environment Management Plans have been implemented at the project:</p> <table border="1"> <thead> <tr> <th>S. No.</th><th>EMP</th><th>Cost (Rs. Lakhs)</th></tr> </thead> <tbody> <tr><td>1</td><td>Resettlement and Rehabilitation</td><td>192.85</td></tr> <tr><td>2</td><td>Afforestation</td><td>17.12</td></tr> <tr><td>3</td><td>CAT Plan</td><td>173.30</td></tr> <tr><td>4</td><td>Biodiversity Conservation Plan</td><td>68.60</td></tr> <tr><td>5</td><td>Reservoir Rim Treatment, Greenbelt &amp; Landscaping</td><td>78.60</td></tr> <tr><td>6</td><td>Restoration of Borrow Pits &amp; Quarry sites</td><td>25.00</td></tr> <tr><td>7</td><td>Muck Disposal Plan</td><td>55.00</td></tr> <tr><td>8</td><td>Sewage &amp; Solid Waste Management</td><td>27.00</td></tr> <tr><td>9</td><td>Fisheries Development</td><td>94.70</td></tr> <tr><td>10</td><td>Fuel Arrangements</td><td>20.00</td></tr> <tr><td>11</td><td>Health &amp; Hygiene</td><td>55.40</td></tr> </tbody> </table>	S. No.	EMP	Cost (Rs. Lakhs)	1	Resettlement and Rehabilitation	192.85	2	Afforestation	17.12	3	CAT Plan	173.30	4	Biodiversity Conservation Plan	68.60	5	Reservoir Rim Treatment, Greenbelt & Landscaping	78.60	6	Restoration of Borrow Pits & Quarry sites	25.00	7	Muck Disposal Plan	55.00	8	Sewage & Solid Waste Management	27.00	9	Fisheries Development	94.70	10	Fuel Arrangements	20.00	11	Health & Hygiene	55.40
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7.	<b>Break – up of the Project area (Land details):</b> a) Submergence area (Forest and Non forest)  b) Others        c) Total	<table><tr><td><b>Submergence</b></td><td><b>Land acquired (ha)</b></td></tr><tr><td>Forest</td><td>-</td></tr><tr><td>Govt.</td><td>2.18</td></tr><tr><td>Pvt.</td><td>2.63</td></tr><tr><td><b>Total (a)</b></td><td><b>4.81</b></td></tr><tr><td><b>Others</b></td><td><b>Land acquired (ha)</b></td></tr><tr><td>Forest</td><td>-</td></tr><tr><td>Govt.</td><td>44.57</td></tr><tr><td>Pvt.</td><td>15.94</td></tr><tr><td>JKPDC transferred land</td><td>3.99</td></tr><tr><td>Land from PDD through lease deed for 99 yrs.</td><td>0.4375</td></tr><tr><td><b>Total (b)</b></td><td><b>64.9375</b></td></tr><tr><td colspan="2"><b>Grand total (a+b) = 69.7475 ha</b></td></tr></table>				<b>Submergence</b>	<b>Land acquired (ha)</b>	Forest	-	Govt.	2.18	Pvt.	2.63	<b>Total (a)</b>	<b>4.81</b>	<b>Others</b>	<b>Land acquired (ha)</b>	Forest	-	Govt.	44.57	Pvt.	15.94	JKPDC transferred land	3.99	Land from PDD through lease deed for 99 yrs.	0.4375	<b>Total (b)</b>	<b>64.9375</b>	<b>Grand total (a+b) = 69.7475 ha</b>	
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8.	Break-up of the Project affected families with enumeration of those losing house/dwelling units only, agriculture land only, both dwelling units and agricultural land and landless labourers/artisans. a) SC/ST/Adivasis b) Others	<table><tr><td><b>S.No.</b></td><td><b>Category</b></td><td><b>No.</b></td></tr><tr><td>1</td><td>Houseless &amp; Landless</td><td>Nil</td></tr><tr><td>2</td><td>Loosing Land partially</td><td>130</td></tr><tr><td>3</td><td>Loosing land completely</td><td>02</td></tr><tr><td>4</td><td>Loosing house</td><td>Nil</td></tr><tr><td>5</td><td>Partially affected PAFs</td><td>33</td></tr><tr><td></td><td><b>Grand total</b></td><td><b>165</b></td></tr></table> 165 Families Nil				<b>S.No.</b>	<b>Category</b>	<b>No.</b>	1	Houseless & Landless	Nil	2	Loosing Land partially	130	3	Loosing land completely	02	4	Loosing house	Nil	5	Partially affected PAFs	33		<b>Grand total</b>	<b>165</b>					
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9.	<b>Financial details:</b> a) Project cost as originally planned and subsequent revised estimates and the years of price reference: b) Allocations made for Environmental Management Plans (Rs.in Lac) c) Actual expenditure incurred on the Project so far. d) Actual expenditure incurred on the Environmental Management plans so far	<p>Rs.893.76 Crore (Including IDC &amp; FC of Rs.33.26 Cr) at July 2010 PL. CCEA approved sanctioned cost Rs.621.26 Crore including IDC &amp; FC (Dec 2005 Price Level).</p> <p>Rs.715.00 Lakhs (Revised cost vetted by CEA / CWC)</p> <p>Rs.868.87 Crore</p> <table><tr><td>S. No.</td><td>EMP</td><td>Cost (Rs. Lakh)</td><td>Exp. incurred (Rs. Lakh)</td></tr><tr><td>1</td><td>Resettlement &amp; Rehabilitation</td><td>192.85</td><td>244.47</td></tr><tr><td>2</td><td>Afforestation</td><td>17.12</td><td>28.01</td></tr><tr><td>3</td><td>CAT Plan</td><td>173.3</td><td>365.627</td></tr><tr><td>4</td><td>Biodiversity</td><td>68.60</td><td>-</td></tr></table>				S. No.	EMP	Cost (Rs. Lakh)	Exp. incurred (Rs. Lakh)	1	Resettlement & Rehabilitation	192.85	244.47	2	Afforestation	17.12	28.01	3	CAT Plan	173.3	365.627	4	Biodiversity	68.60	-						
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			Conservation Plan		
		5	Reservoir Rim Treatment, Greenbelt & Landscaping	78.60	38.38
		6	Restoration of Borrow Pits & Quarry sites	25.00	-
		7	Muck Disposal Plan	55.00	11.70
		8	Sewage & Solid Waste Management	27.00	10.50
		9	Fisheries Development	94.70	180.00
		10	Fuel Arrangements	20.00	16.09
		11	Health & Hygiene	55.40	19.96
		12	Disaster Management Plan	33.00	-
		13	Environment Monitoring Programme	30.00	04.11
		Total cost as per EMP		<b>870.57</b>	918.847
		Revised cost vetted by CEA/CWC		<b>715.00</b>	
<b>10.</b>	<b>Forest land requirements:</b>	Nil			
	a) Status of approval for diversion of forest land for non-forestry use.	Project does not involve any forest land. No objection to this effect was issued by J&K State Govt. on 24.06.2004.			
	b) The status clear felling in forestland.	Not applicable.			
<b>11.</b>	<b>Status of construction:</b>				
	a) Date of commencement	Actual : Nov. 2005			
	b) Date of completion	Actual : Jan. 2013			
<b>12.</b>	Reasons for the delay. If the project is yet to be start.	Not applicable			
<b>13.</b>	Details of site visits				
	a) By monitoring committee	1 <sup>st</sup> Monitoring committee meeting: 22.08.2007 2 <sup>nd</sup> Monitoring committee meeting: 10.12.2013 3 <sup>rd</sup> Monitoring committee meeting: 22.05.2018			
	b) By Regional Office	Representatives from RO, Chandigarh MoEF&CC, GoI have attended all Monitoring committee meetings.			
<b>14</b>	Brief note on the status of compliance of the conditions stipulated by MoEF	Enclosed as <b><i>Annex-I</i></b>			

**Annex-I****Status of Compliance of conditions stipulated by MOEF, Govt. of India in Environmental Clearance letter No. J-12011/61/2001-IA-I dated 17.11.2005.****Part – A: Specific conditions**

<b>S.No.</b>	<b>Specific Condition</b>	<b>Compliance Status</b>
<b>i</b>	All CAT programme works would have to start with the pre-construction activities and <i>pari passu</i> to the construction works.	Under CAT programme an amount of Rs.365.627 lakh was released to J&K Forest Department, Kargil for taking up of CAT works and the same utilized by J&K Forest Department. As per fund utilization report submitted by Divisional Forest Officer, Kargil, vide letter dated 23.04.2020 an amount of Rs. 50 lakh was released to Forest Department for the year 2019-20 against which Rs. 44.95 lakh has been utilized till 30.09.2021. Project vide letter dated 09.11.2022 & 07.06.2023 requested Forest Deptt. for utilization certificate of balance amount. The consolidated report for total fund utilized towards CAT plan is still awaited. DFO, Kargil vide letter dated 27.03.2024 has informed the Project that balance works shall be undertaken during FY 2024-25.
<b>ii</b>	Controlled blasting with very low charge and mild explosives should be used under close supervision. The quantity of explosive per delay to be used should be informed within one month from the date of issue of this letter.	Project is commissioned and no blasting operation is being carried out now.
<b>iii</b>	For conservation of Bio-diversity of the area, the conservation plan as suggested in the EMP (page 4.1. to 4.10) should be implemented in toto.	A Special Cell was constituted vide PCCF's order dated 26-08-2013. First meeting of the Special cell was held on 10.12.2013 at Srinagar wherein the process of implementation was discussed. A meeting was held on 04.08.2014 which was chaired by Dr. Surendra Kumar, Director (S) MoEF&CC, wherein the issue regarding location discussed and it was decided that the issue should be resolved by mutual discussion and consent. The matter was discussed with DFO, Kargil and he has assured that issue will be resolved shortly. NHPC vide letter dated 30.04.2018, 01.04.2022 & 12.11.2022 has requested DFO, Kargil to submit the estimate and proposal for biodiversity park so that the required funds may be arranged for the same. The matter is being pursued with DFO, Kargil to submit proposal for development of biodiversity park. DFO, Kargil vide letter dated 12.06.2023 directed Range Officer, Sankoo to submit a proposal for Bio Diversity Park. However, proposal is still awaited from DFO, Kargil.
<b>iv</b>	The unused excavated material should be dumped only at the three identified sites near Adit I,	Muck had been disposed-off at the specified dumping areas as per EMP. Alfa alfa seeds were sown in the dumping site near Adit-II through Department of

	II and village Chutak. The excavated materials shall be dumped along the Adit I, Adit II and village Chutak. The excavated materials shall be dumped the along the slopes. The slopes should be developed into benches and terraces.	Forests, Kargil. Dumping site near the powerhouse has been developed into a park.
v	About 93 families of 8 villages will be affected by acquisition of land/tress etc. for construction of the project, out of which only 2 families will be rendered landless. The R&R package to be provided to the project affected persons should not be less than NPRR-2003.	Complied with. There is no displacement due to construction of the Project. However, the number of partially affected families has increased from 93 to 165. The Govt. of J&K accorded approval for implementation of R&R plan at the cost of Rs. 192.85 lakhs against which an amount of Rs. 244.47 lakhs has been utilized due to increase in number of PAFs.

**Part-B: General Conditions:**

S.No.	General Condition	Compliance Status
i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Condition was complied with. The Project is commissioned and no labourers stay permanently at site.
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	There is a fuel depot of State Government in the vicinity of the project. Adequate medical as well as recreational facilities were provided to the labourers during construction phase. No labourers stay permanently at site.
iii	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Project is commissioned. Condition was complied with.
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.	The muck disposal sites have been restored and stabilized.
v	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures	Condition was complied with and provision was kept in the Project DPR for implementation of the suggested safeguard measures.
vi	A monitoring committee for	Condition was complied with. R&R committee was

	implementation of R&R should be constituted which must include a SC/ST representative from project affected persons and a woman beneficiary	constituted by Dy. Commissioner, Kargil vide order dated 17.10.2007.
<b>vii</b>	A Multidisciplinary committee should be constituted with representatives from various disciplines of forestry, ecology, wildlife, soil conservation, NGO etc. to oversee the effective implementation of the suggested safeguard measures	Condition was complied with. Multidisciplinary committee was constituted vide order dated 14.08.2007
<b>viii</b>	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review	Six-monthly progress reports are being regularly submitted to MoEF&CC and its Regional Office.

#### **Status of other Environment Management Plans:**

- i. **Fisheries Development:** For fisheries development a provision of Rs.94.70 lakh was kept under EMP. Thereafter, the plan was revised by Fisheries Department, Govt. of J&K, to Rs.180 lakhs. NHPC had released an amount of Rs.180 lakhs to Fishery Deptt. The Fishery Department acquired 27 kanal 04 marla of Govt. land adjacent to the existing fish farm in Damsana Purtichery village on lease for 40 years for construction of fish farm for the project. Fund utilization certificate for Rs.179.99 lakhs has been received till August 2019 from Fishery Dept. Leh.
- ii. **Sewage and Solid waste disposal:** Septic tanks with soak pits have been provided in all colonies. Dustbins have been provided in colonies/camps and manpower have been engaged for collection and safe disposal of solid waste. STPs at Residential/ Office and Power House Sites are expected to be commissioned in FY 2024-25.
- iii. **Afforestation:** For afforestation works around the project area an expenditure of Rs. 23.65 lakhs has been utilized against allocated cost of Rs. 28.01 lakhs. Further, approx. 7.57 ha barren land in the vicinity of the Project area was planted with fruit bearing trees under afforestation scheme. Voluntary plantation are also conducted from time to time at the Power Station.

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