

Six Monthly Progress Report on compliance of conditions stipulated in Environment  
Clearance of Teesta Low Dam-III PS (132 MW), Rambhi, West Bengal

(for the period Oct 2022 to March 2023)

1.	Project Type	Hydroelectric Project														
2.	Name of the project	Teesta Low Dam Project, Stage-III (132 MW)														
3.	Clearance letter (s). OM No. & Dates a) Environment clearance b) Forest clearance	a) Letter No. J-12011/44/2002-IA-I dated 16.07.2003. b) Details of forest clearance: <table><tr><td>MoEF letter No.</td><td>Date</td><td>Forest Land (in ha)</td></tr><tr><td>F No. 8-34/2003-FC</td><td>7.04.2004</td><td>302.49</td></tr><tr><td>F No.5-WBB033/2009-BHU</td><td>3.03.2010</td><td>7.595</td></tr><tr><td>F No.5-WBCO23/2010-BHU</td><td>2.06.2011</td><td>1.7154</td></tr></table>			MoEF letter No.	Date	Forest Land (in ha)	F No. 8-34/2003-FC	7.04.2004	302.49	F No.5-WBB033/2009-BHU	3.03.2010	7.595	F No.5-WBCO23/2010-BHU	2.06.2011	1.7154
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4.	Location  a) District(s) b) State (s) c) Latitude d) Longitude	Teesta Low Dam-III Power Station  Darjeeling West Bengal 27° 00' 00" N 88° 27' 30" E														
5.	Address of Correspondence: a) Address of concerned Project Head (with pin code & telephone/ fax nos.)  b) Address of concerned HOD in Corporate office.(with pin code & telephone/ fax no.	Group General Manager (Elect.), Teesta Low Dam-III Power Station NHPC Ltd., Rambhi , P.O. - Reang, Distt. –Darjeeling, 734 321 (West Bengal). Telephone: 03552 – 261006, Mobile: 9046158206  Executive Director (Environment & Diversity Management Division), Corporate Office, NHPC Ltd., Sector - 33, Faridabad, Haryana - 121 003. Telephone : 0129-2254674 E-mail: envdivmgn-co@nhpc.nic.in														
6.	Details of environmental management plan:	Environmental Management Plans (EMP) are listed at Annexure-I.														
7.	Break-up of the Project area: a) Forest Land  b) Others (Non-forest)	<table><tr><td>Forest land for submergence</td><td>172.90 ha</td></tr><tr><td>Forest land for other project activities</td><td>138.90 ha</td></tr><tr><td>a) Total Forest Land</td><td>311.80 ha</td></tr><tr><td>b) Non-forest (Govt. land)</td><td>25.70 ha</td></tr><tr><td>Total Land</td><td>337.50 ha</td></tr></table>			Forest land for submergence	172.90 ha	Forest land for other project activities	138.90 ha	a) Total Forest Land	311.80 ha	b) Non-forest (Govt. land)	25.70 ha	Total Land	337.50 ha		
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8.	Breakup 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. SC /ST /Tribals/Others	Details of PAFs are as under: 1. i).Fully Affected Families: 09 SC/ST: 02 Others: 07 ii).Partially affected families:27 SC/ST: 11 Others: 16  2. Additional nos. of families declared as PAF : 84 SC/ST: 05 Others: 79
9.	Financial details a) Project cost as originally planned and subsequent revised estimates and the years of price reference: b) Actual expenditure incurred on the project so far: c) Allocations made for EMPs: d) Actual expenditure incurred on the EMPs so far:	a) As per DPR, Total Project cost: Rs.768.92 crore (Dec. 2002 P.L.) (as approved by CCEA)  b) Actual expenditure on Project: Rs.1917.45 crores (revised completion cost). c) Total allocated amount for EMP: Rs.1773.71 lakh (Dec., 2002 PL) CCEA approved cost including R&R Plan. d) Total expenditure on EMP: Rs. 9221.31 lakh (detail is enclosed as Annex-I)
10.	Forest Land requirements: a) Status of approval for diversion of forest land for non-forestry use. b) The status of clear felling in forest land	a) 302.49 ha, 7.595 ha and 1.7154 ha forest land were diverted vide letter dt. 07.04.2004, 02.06.2011 & 03.03.2010 respectively. b) Trees standing in the diverted forest area have been felled by the West Bengal State Forest Department as per requirement of the different project components and reservoir area.
11.	Status of construction a) Date of commencement (actual and / or planned) b) Date of completion (actual and/or planned).	a) 01.05.2004  b) 19.05.2013
12.	Reasons for the delay. If the project is yet to start:	Not Applicable
13.	Details of site visit a) By monitoring committee  b) By regional Office	a) 1st, 2nd, 3rd, 4th, 5th, 6th, 7 <sup>th</sup> , 8 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> Environment Monitoring Committee meetings were held on 10.08.2005, 13-14.04.2006, 15-16.01.2008, 11-12.12.2008, 20.4.2010, 22.9.2011, 12.9.2015, 15.1.2018, 25.11.2019 and 18.06.2021 (virtual) respectively.  b) Deputy Director, RO-Bhubaneshwar, MoEF&CC visited the project site during EMC meeting on 15.01.2018. Scientist 'B' from RO-Bhubaneshwar, MoEF&CC visited Project during EMC meeting on 25.11.2019.

14.	Brief note on the status of compliance of the conditions stipulated by MOEF	Status of compliance of the conditions stipulated by MoEF&CC is given in Annex-II.
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Details of allocations Vs expenditure incurred on Environmental Management Plans (EMPs) for  
Teesta Low Dam-III Power Station

*(till March 2023)*

SI No.	EMP	Allocation as per EMP (Aug 2003PL)	Revised completion cost (June 2013 PL) (Rs. In lakh)	Expenditure (Rs. In lakhs)
1	Compensatory Afforestation	614.7	565.16	565.16
2	CAT Plan	479.43	914.29	914.29
3	Wild Life Management Plan	40	40	37
4	Green Belt Development	18.51	47	52.36
5	Restoration Plan for Dumping Sites Disposal Plan	83.33	29.13	27.33
6	Restoration of Borrow areas, Quarry and construction sites	7.96	17.5	15.83
7	Reservoir Rim Treatment	125	3665.03	3219.28
8	*Fuel Provision (contractor clause)	11.68	0	0
9	*Health Management	40	0.87	0.87
10	Air Quality Management Plan	2	2.31	12.07
11	Water Quality Management Plan	2	8	
12	*Solid waste Management(contractors clause)	46.08	9	3.49
13	Landscaping& Beautification plan	8.14	12	10.39
14	Socio-economic upliftment of area	81.4	261.36	840.40
15	Disaster Management Plan	61.21	25	107.20
16	Env. Monitoring Programme	75	40.6	33.80
17	Net Present Value	--	1929.4	1929.40
18	Cost of falling & operation of trees and cleaning of reservoir area	--	44.11	44.11
	Sub Total:	1696.44	7610.76	7812.44
	B-land:			
19	R & R Plan	77.27	1127.27	1408.33
	Grand-Total:	1773.71	8738.03	9221.31
*Expenditure on this account was incurred by the contractors as per contract agreement.				

A brief note on status of compliances of conditions as stipulated in Environment Clearance Letter

S.No.	Conditions stipulated in EC	Compliances by the TLD-III Power Station
	<b>Part A: Specific Conditions</b>	
i.	9 families of the 2 villages of Geil Khola & 29th Mile, comprising total 51 persons will be affected. Out of total, 31 persons are fully affected and 19 persons partially affected. The affected families should be rehabilitated as per R & R plan proposed & submitted this ministry.	<p>As per EIA EMP Report, total 36 families were identified as Project Affected Families (PAFs) who got affected due to formation of reservoir out of which 27 families affected due to losing land and 9 families losing their homestead land &amp; house and compensation was paid to all 36 nos. of PAFs.</p> <p>Further, in view of impoundment of the reservoir and operation of Power Station, a Compensation Committee was constituted by the Gorkha Territorial Administration (GTA) vide memo no. 58 (24)/II-8/PHE/GTA dated 20.02.2014 for families residing along the rim of reservoir.</p> <p>The above Committee identified a list of Total 84 nos. PAFs located across three villages viz. 29th Mile, Geil Khola and Teesta Bazar along rim of reservoir on right bank of river Teesta.</p> <p>Details of Compensation area as below:</p> <ol style="list-style-type: none"> <li>In the 1<sup>st</sup> phase, an amount of Rs. 106.65 lakhs was sanctioned for 13 nos. of PAFs at 29<sup>th</sup> Mile. Out of which a total of Rs. 93.44 lakh has been disbursed to 11 PAFs as per consent of District Administration and GTA, whereas 02 PAF refused to accept the compensation determined by the committee.</li> <li>In the 2nd Phase, an amount Rs. 837.75 lakhs was sanctioned for balance 71 Nos. of PAFs. Out of which a total of Rs. 744.98 lakh was disbursed to 68 PAF's (62 PAF's received full amount while 6 PAF's received 50% amount) till date as per consent of District Administration and GTA. The balance 50% amount of compensation will be disbursed to 6 nos. of PAFs subject to dismantling of their home shed. 03 nos. of PAFs have refused to accept the compensation determined by committee for which notices have been issued to them.</li> </ol>

		<ul style="list-style-type: none"> <li>As such, out of 84 nos. of PAFs, 73 have received full compensation, 6 have received 50 % compensation while 5 have denied the compensation.</li> </ul>
ii.	<p><b>Catchment Area Treatment Plan:</b> The area of 12022.43 ha identified as very highly degraded and highly degraded catchment area should be completed in five years.</p>	<p>An amount of Rs. 914.29 lakh was released by TLD-III power station for implementation of CAT plan. Out of which Rs. 341.00 deposited to the Govt. of West Bengal and Rs.573.29 deposited to the Govt. of Sikkim. Out of which, Rs. 305.98 lakh has been utilized under CAT plan by the Forest Deptt. of West Bengal and Rs. 412.82 lakh has been utilized under CAT plan by the Forest Deptt. of Sikkim. Total fund of Rs. 718.8 lakh has been utilized by West Bengal and Sikkim Forest Departments for the work till date.</p> <p>Various engineering measures such as sausage walls, crate walls, catch water drains, stepped drains, stone masonry plum wall, palisade wall, belly benching, etc. have been carried-out by the concerned State Forest Dept. under CAT Plan. Plantation and other biological activities have also being undertaken under biological measures as per the approved CAT working plan. Project is continuously pursuing with the State Forest Deptt. for early completion of the balance CAT works.</p>
iii	<p><b>Biodiversity Conservation Plan:</b> the proposed Orchidarium near the barrage should include a provision for conservation of rare orchids that are likely to get submerged. Conservation of rare orchids as proposed should be carried out in consultation with the Department of Forest, Govt. of West Bengal and North Bengal University.</p>	<p>An Orchidarium and Arboretum has been established through Darjeeling Forest Division over an area of 06 ha forest land at Reang Block near TLD-IIIPS. Wild orchids were collected from the surrounding areas and transferred into Orchidarium for conservation in consultation with the Forest Deptt. and North Bengal University. An amount of Rs. 58.45 was deposited on behalf of both TLD-III&amp;IV to West Bengal Forest Department. Out of which Rs. 30 lakh has been utilized by Darjeeling Forest Division till date. Project is continuously pursuing with the State Forest Department for early completion of the balance works.</p>
iv	<p>The basic data of Ambient Air Quality, Noise Quality, Ground water Quality, Biochemical Oxygen Demand and Coliform count of surface water should be monitored periodically and reports submitted.</p>	<p>The parameters are being monitored periodically by the Project through WBPCB approved laboratories.</p>
	Part –B General Conditions	

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.	Project is under operation stage since Sept., 2013 and all major construction works were completed at site and presently no labour camp is located at Power Station. However, the condition related to fuel arrangement was duly complied during construction stage.
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.	Project was commissioned in 2013, as such no labour camp is present at project site. Free medical facilities are being provided to local villagers as well as others in the project dispensary.
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.	<p>The project was commissioned in 2013, as such no labour population residing at the project site now. Necessary health care facilities were provided by the Project as well as major contractors to the labour and staff engaged at work site during construction phase.</p> <p>Presently, free medical facilities are also being provided to local villagers as well as laborers in the project dispensary run by the NHPC. Free medical check-ups camps, vaccination camp and awareness camps are being organized by the project on regular basis for providing easy and accessible medical facility to the people residing in and around the project area. Free medicines are made available from OPD to all needy ones from nearby villages. Dispensary runs the OPD &amp; Emergency Services with 4 Beds for day care of patients. Fully equipped Ambulance services are available 24x7 for the patients. Dispensary is also equipped with modern facilities for checking health of mother and child in antenatal cases (pregnant women). OPD is regularly conducted in Deorali, a model village of TLD III PS with free medicines. Also, Project has provided medical equipment &amp; Ambulance to the local Govt. PHC at Rambhi for improvement of overall health conditions of the local communities.</p>
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Muck generated during excavation and construction of project was dumped at designated dumping area. As per the disposal and restoration plan, necessary protection measures were provided at muck disposal area. Biological measure in the form of Plantation of local species of bushes and tree were also carried out at dumping sites.

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v	Financial provision should be made in the total budget of the project for implementation of the above suggested measures.	Fund provision was duly made in the total budget of Project for implementation of above safeguard measures.
vi	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.	The multidisciplinary environment monitoring committee (EMC) was constituted on 31.05.2002. The 10 <sup>th</sup> meeting of the multidisciplinary monitoring committee was conducted on 18.06.2021. The committee reviewed the implementation of Environment Management Plans alongwith EC conditions.
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Bhubaneswar for review.	Six monthly monitoring report is being submitted to MOEF& CC regularly. The last six monthly report was submitted vide letter No NH/Env/95/244 Dated 30/11/2022 to email ID: <a href="mailto:iro.kolkata-mefcc@gov.in">iro.kolkata-mefcc@gov.in</a> and <a href="mailto:yogendra78@nic.in">yogendra78@nic.in</a> .