Six Monthly Progress Report on

Compliance of conditions stipulated in Environment Clearance of Rangit -IV HEP, Sikkim
(Period Oct 2023 to March 2024)

1.	Name of the project	Rangit -IV HEP (3X40 MW), Sikkim			
2.	Type of project	Hydro-Electric Project			
3.	Clearance letter (s).				
	OM No. & Dates				
	a) Environment Clearance	(a)No.J.12011	(a)No.J.12011/11/2007-IA-I, dated -16/05/2007		
	b) Forest Clearance	(b)			
		Date	File No.		Forest Land
					(ha)
		26.12.2007	3-SKC072/2007		24.7523
		09.01.2012	3-SKC072/2007		0.2
		06.11.2023	FP/SK/HYD/IR	RIG/402342/2022/178	1.2721
				Total(ha)	26.2244
4.	Locations				
	a)District	South and We	est		
	b)State	Sikkim			
	c)Latitude	27° 13'10"N			
	d)Longitude	88° 13' 10"E			
5.	Address for	Executive Dir			
	Correspondence	Jal Power cor	1		
	a)Address of concerned	Rangit-IV HE			
	Project Head (with pin	Sikkim-737121			
	code, telephone/fax)	Email: rangit ²	4@nhpc.nic.in		
	b) Address of concerned	Executive Director			
	HOD in corporate Office	(Environment & Diversity Management Division), Corporate			
	(with pin code &	Office, NHPC Ltd.,			
	telephone/fax no.)	Sector - 33, Faridabad, Haryana - 121 003.			
		Phone : 0129	,		
		Email: envdiv	mgn-co@nhpc.n	ic.in	
6.	Detail of Environmental ManagementPlans	As per Annex	ure-I		
7.	Break-up of the Project	(i) Forestland	d details		
	area (Land details)	(a) Surface			
	a) Submergence area	Land		8.4658 ha	
	(forest & non-forest)	Roads		1.4280 ha	
		Quarry area		0.2080 ha	
		Submergence area 11.3740 ha			
	(b)Others	(b) Undergro	und land=3.2765	На	
		(c) Additional forest land: 0.200 Ha & 1.2721 Ha			
		(c) / Idditiona	. 10100t mild. 0.20	00 114 CC 1.2/21 114	

		(ii)Private land	
		(a) Private land under mutation = 8.061 ha	
		(b) Private land under lease by JPCL = 0.3040 ha	
8.	Breakup of the project	Project Affected Families : 42	
0.	affected population with	Number of Rural Families : 42	
	enumeration of those	Number of Urban Families : Nil	
	losing houses/ dwelling	Trumber of Croun Funnies . Tru	
	units only, agricultural		
	land only, both dwelling		
	units and agricultural land		
	and land less laborers /		
	artisans		
	a) SC/ST/Tribals	(a) SC-05, ST-15	
	<i>y</i>		
	b) Others	(b) 22	
		(After considering recent inclusion of Tamang and Subba	
	TI 1.15 . II	communities in ST)	
9.	Financial Details.	() D 020 20 G	
	a) Project cost as	(a) Rs. 938.29 Crores at Oct'2019 PL including IDC &FC and	
	originally planned.	bid amount of Original allocation of Rs. 165 Crores.	
	b) Actual expenditure	(b) 1006.93 Cr. (31 March 2024) by JPCL after take over by	
	incurred on the project so	NHPC including JPCL's acquisition cost on accrual basis.	
	far.	7	
	c) Allocation made for the	(c) Original allocation was Rs.10.525 crores which was revised	
	EMP.	to Rs. 11.62 Crores.	
	10.4 179		
	d) Actual Expenditure		
	incurred as on the	(d) Rs. 9.84 Crores (As per Annexure-I).	
	Environmental		
1.0	management so far.		
10	Forest land requirements	(a) (i) M FE 2 CC (i) 1 (i) N 2 SWC 072/2007 SH /2410	
	a) Status of approval for	(i) MoEF&CC, vide letter No 3-SKC 072/2007-SHI/2410-	
	diversion of forest land	21, dated 26 th Dec. 2007 has approved diversion of	
	for non-forestry use.	24.7523 ha of forestland;	
		(ii) Additional forestland of 0.20 ha vide Letter No. 3 SKC072/2007-SHI/2861-62 dated 9 th January 2012.	
		(iii) Additional 1.2721 ha forestland vide letter No.	
		FP/SK/HYD/IRRIG/402342/2022/178 dated 06 th Nov	
		2023	
	b) The status of clear	(b) Data Not available as the previous Project proponent	
	felling in forestland.	had not provided data during handing over of project to	
		the present proponent (M/s JPCL, a wholly owned	
11	Status of construction	subsidiary of NHPC) in March 2021. (a)Date of Start 1 st July, 2008 by Jal Power Corporation	
11	a)Date of commencement	Limited (JPCL), the previous proponent.	
	(Actual and Planned)	Date of Re-start of Project: 30.03.2021 by Jal Power	
	(Actual and Flaimed)	Date of Re-start of Froject. 50.05.2021 by Jan 10wel	

		Corporation Limited (A wholly Owned Subsidiary of NHPC Ltd.) i.e. date of investment Approval by Govt. of India.
	b) Date of completion (actual and /or planned)	(b) Planned: May, 2025
. 12	Reasons for delay, if the project is yet to be started	The project was started by Jal Power Corporation Limited in July 2008. However, the construction of the project was stuck up since November 2013 due to financial crisis. Subsequently the corporate creditors invoked CIRP through NCLT. Subsequent to approval of Resolution Plan by Hon'ble National Company Law Tribunal (NCLT), NHPC Ltd. has acquired the JPCL as a going concern on 31.03.2021. Now, the balance construction works of Rangit-IV H.E. Project is being carried out by Jal Power Corporation Limited (A wholly Owned Subsidiary of NHPC Ltd.)
13	Details of the site visits: a) By Monitoring Committee	(a) A Monitoring Committee was constituted by Additional Director (IA), MoEF, New Delhi vide letter dated 14.01.2009 and four meetings had been conducted. Last meeting was held on 30 th January 2013. However, due to stoppage/stuck up of the project further monitoring committee meetings could not be conducted by the then Project Proponent.
		A new Multidisciplinary Monitoring Committee has been formed by MOEF&CC(New Delhi) vide letter No. F.no.J-12011/11/2007-IA.I(R) dated 23.09.2022 in pursuance to the taking over of M/s JPCL by NHPC Ltd. on 31.03.2021.
	b) By Regional Office	(b) No. of visit: 08 (Last visit was held on 30.01.2013 during the period of previous Proponent i.e. M/s JPCL)
14	Brief note on the status of compliance of the conditions stipulated by MoEF.	Brief note on compliance status of conditions is mentioned at <i>Annexure-II</i> .

- Note: Environment Clearance (EC) letter dated 16.05.2007 was issued to M/S JPCL (the previous Project Proponent) which had submitted the last six monthly report to MOEF&CC vide letter dated JPCL:JT:ADMN:2014 Dtd. 12.01.2015 addressed to MOEF, Shillong.
- NHPC had taken over the M/s JPCL on 31.03.2021. Consequent upon the taking over of M/s JPCL by NHPC, MOEF&CC vide its letter dated 23.02.2022 clarified that the conditions stipulated in EC shall now be complied by M/s JPCL (a wholly owned subsidiary of NHPC Ltd.).
- Accordingly, M/s JPCL (a wholly owned subsidiary of NHPC Ltd.) has started submission of six monthly report vide letter dated 31.05.2022 (ending March, 2022). The six monthly report also contains the data/expenditure/compliance aspect related to EC as reported by the then project proponent (M/s JPCL) in the last six monthly report dated 12.01.2015 submitted to the ministry.

	Details of expenditure incurred	on Environm	ental Management Plans of Rangit-	Annexure-1 IV HEP
Sl. No	Items	Estimated Cost (Rs. Lakh)	Expenditure (in Rs.) incurred by the M/S JPCL, the previous Project Proponent up to 30.03.2021.	Expenditure (in Rs.) after takeover of JPCL by NHPC Ltd. (Exp. till March, 2024)
1	Sanitary facilities in laboure camps	10.0	4,94,343.00	16,33,768.00*
2	Solid Waste Collection and Disposal system	29.9	8,08,572.00	72,300.00*
3	Management of impacts due to construction of roads	142.9	66,47,365.00	
4	Restoration of Quarry sites	16.1		
5	Restoration and Landscaping of Construction sites of Quarry sites	3.0	19,000.00	
6	Green belt Development	3.1	5,40,732.00	
7	Compensatory Afforestation	52.8	67,57,337.00	5,93,095.00
8	Public Health Delivery System	105.1	21,88,804.00	19,57,776.00*
9	Construction of settling tanks at construction sites	5.0	4,61,725.00	
10	Sustenance of Riverine Fisheries	75.0		
11	Catchment Area Treatment Plan	346.59	2, 00,00,000 (Deposited to Forest Environment & Wildlife Management Deptt. Government of Sikkim	
12	Reservoir Rim Treatment Plan	41.0		
13	Forest Protection Plan	52.2	Being implemented by contractors	1,10,06,899.00*
14	Wildlife Conservation Plan		As per MoEF vide letter no. 3-SKC 072/2007-SHI/2419 dated 26th Dec 2007(point-v), the proposed special wildlife conservation plan appears redundant, hence not required.	
15	Resettlement and Rehabilitation Plan	50.0	43,99,000.00	
16	Muck Management Plan	142.5	3,17,90,471.00	
17	Purchase of instruments.	7.5	1,83,928.00	
18	O&M cost	53.2		

19	Environmental Monitoring during construction phase.	26.5	15,12,901.00	23,13,880.00#
20	Renewal of consent from State			50,60,000.00
	Pollution Control board w.e.f.			
	2014-15 to 2023-24			
	Sub Total(Rs)	1162.39	7,58,04,178.00	2,26,37,718.00
	Gran	nd Total(Rs)	9,84,41,896.00	
	(Total expenditure since start of c	onstruction	Say, Rs 984.41 Lal	ch
	of Project)			

Note:

^{*} Expenditure incurred by major contractors of Rangit-IV HEP, as per Annexure –IIA, IIB, IIC, IID and IIE.

[#] Expenditure incurred by both Rangit-IV HE Project establishment (Rs. 21,97,060/-) and major contractors of Rangit-IV HEP(Rs. 1,16,820/- as per Annexure –IIC).

	Annexure-II			
Part- <i>A</i>	A: Specific Conditions:			
Sl. No.	Conditions stipulated in EC letter dated 16.05.2007, Rangit-IV	Status of Compliance (as on March 2024).		
i	Catchment Area Treatment Plan has been proposed should be completed in three years.	 The previous project proponent had deposited Rs. Two Crore to Forest Environment & Wildlife Management Department, Government of Sikkim. The budget provision for CAT Plan in the Environment Management Plan was Rs 206.4 lakh during the year 2007-08. The estimated provision was scheduled for four years for implementation of engineering and bioengineering works and three years of maintenance cost. Govt. of Sikkim vide letter no. 1225/GOS/FEWMD dated 28.03.12 had revised the amount of CAT plan to Rs. 346.59 lakhs (three crore forty six lakhs and fifty nine thousand) as per the revised labour wages and escalation in cost of other construction material. CAT works are being executed by Land Use & Environment Division, South Sikkim and West Sikkim. Matter is being pursued to get the latest progress report. 		
ii	If a Wildlife and/or National Parks exist with 10 Km from the radius of the project site, clearance under the Wildlife (Protection) Act, 1972 should be obtained.	No Wildlife or National Parks exist within 10 Km from the radius of Project site, hence no clearance from the Indian Board for Wildlife (IBWL) is taken in reference to MOEF&CC letter No 26.12.2007 (point-v, Forest Clearance).		
iii	The Project Affected Persons (PAPs) should be Rehabilitated and Resettled as per R&R package of NPRR-2003.	The R & R package was approved by Government of Sikkim and full payments have been made to the concerned District Collectors (West & South Sikkim) for disbursement to all the beneficiaries by erstwhile JPCL.		

iv	A Monitoring Committee for R&R should be constituted which must include representative of Project Affected Persons from SC/ST and a women beneficiary.	A Monitoring committee for finalization of R & R package was constituted and finalized by Government of Sikkim and full payment has been made to all the beneficiaries.
V	All the equipment which are likely to generate high noise levels are to be fully mollified. (Noise Reduction Measures)	All the possible noise generating machineries are being maintained regularly and contractors have been strictly directed to have timely maintenance of all their equipment's which are likely to generate high noise. All the Diesel Generators (DGs) working at the sites are having an acoustic enclosure to control the noise generating from DGs which confers with the norms of State Pollution Control Board, Sikkim.
vi	Consolidation and Compilation of the muck should be carried-out in the muck dump sites and the dump sites should be above high flood level. Suitable retaining walls are constructed to develop terraces so as to support the muck on vertical slope and for optimum space utilization. The loose muck should be compacted layer wise. The muck disposal area will be developed in a series of terraces of Boulder crate wall and masonry wall to protect the area/muck from flood water during monsoon.	All the dumping areas located in both Forest and Private land are approved by Government of Sikkim. Detailed standard Engineering specifications have been adopted by way of construction of Gabion walls. The work is being done strictly as per the area requirement for optimum disposal of muck. The crate walls constructed at all the dumping sites are well above the high flood level to prevent the area/muck from flood water during monsoon. Terrace construction/bench development at dumping area nos. 1, 6 & 7 is completed by erstwhile JPCL (previous project proponent). A suitable terrace has been constructed for laying the impervious fertile soil for necessary plantation work.
vii	The dam will act as a barrier to the free movement of Migratory fish species. A hatchery should be developed for stocking, as proposed in the Environment Management Plan.	Regarding implementation of Fish Management Plan, the then project proponent (M/s JPCL) had consulted with the Central Inland Cold Water Fisheries Research Institute, Bhimtal, Uttrakhand for providing necessary consultancy services regarding the implementation of Fish Management plan. However, the response of institute is awaited. Subsequent to the taken over of M/s JPCL by NHPC, matter related to implementation of Fish Management Plan under EMP of Project was taken up with Directorate of Fisheries, Government of Sikkim. The

		officials from Directorate of Fisheries, Government of Sikkim had visited the area around Project in the month of Nov. 2023 to finalize a site for development of hatchery. Accordingly, a site in VillSikkip, Distt-Soreng has been identified for development of hatchery with the objective of sustenance of endemic fisheries. In this regard, a proposal for construction of Fish farm at Sikkip(Reshi), District Soreng) with Financial
		Implication of Rs. 1.65 Cr. has been submitted by Directorate of Fisheries, Government of Sikkim to Project (JPCL (a Subsidiary of NHPC). The proposal is under review by Project.
Part-E	3: General Conditions :	
i	Adequate free fuel arrangements should be made for the labour force engaged in the construction work at project so that indiscriminate felling of trees is prevented.	Presently, mess facility is being provided by the contractor to their work forces. The details of expenditure on account of free fuel and electricity are attached at Annexure-IIA .
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.	the local market as and when required. Medical facilities are provided by the contractors to the
iii	All the laboures to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Health screening and check-ups of laborers are carried out before engaging them in works. Medical facility is being provided to the laborers. Vaccination of the laborers for COVID-19 has been carried out by JPCL/Contractors.
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.	Environment friendly measures are undertaken for dumping of Muck at designated dumping yards. Dumping areas are being provided with adequate retaining structures such as crate walls, RRM wall etc. as per requirement. After dumping the areas are being leveled. Since the works have commenced recently, the nallahs and river sections as per site requirement shall be provided with adequate protection measures such as

V	Adequate financial provisions should be made in the total budget	crate wall and concrete plugs. All precautionary measures will be taken as per the statutory requirements with progress of works. The status of muck disposal is attached at Annexure-IIF. Financial provisions has been made in total budget of the project for implementation of the above suggested safeguard measures.
	of the project for implementation of the above suggested safeguard measures.	sateguard measures.
vi	A Multidisciplinary Monitoring committee in consultation with the Ministry should be constituted with Ecologist, Environment Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	A monitoring committee was constituted by Additional Director (IA), MoEF, New Delhi vide letter dated 14.01.2009 and four meetings were conducted. However, due to stoppage up of the project further monitoring committee meeting could not be conducted. A new Multidisciplinary Monitoring Committee has been formed vide letter no. F.No.J-12011/11/2007-IA.I(R) dated 23.09.2022 in pursuance to the taking over of M/s JPCL by NHPC Ltd in March 2021.
vii	Six monthly monitoring reports should be submitted to the ministry and its Regional Office, Shillong for review.	The last report was submitted by previous project Proponent (M/s JPCL) vide letter dated 12.01.2015. After taken over of M/s JPCL by NHPC Ltd. on 31.03.2021 and in compliance to the MOEF&CC letter dated 23.02.2022 regarding Environment Clearance, the last report was submitted to Ministry and its integrated R.O of MOEF&CC at Kolkata vide letter No. NH/EDM/219/610 dated 28.11.2023 to email ID: iro.kolkata-mefcc@gov.in and yogendra78@nic.in to MOEF&CC, New Delhi.

Annexure-IIA

Expenditure incurred on Community kitchen & Free Fuel by Major Contractors Under Forest Protection Plan of EMP of Rangit-IV HE Project

Details: Major contractors of Project have established community kitchens/mess facilities for labors and providing free fuel (LPG and electricity) to labors engaged by them. Expenditure incurred on these facilities by Major contractors after taking over of JPCL by NHPC is given in the following table.

Sr. No.	Name of the Contractor	Amount (Rs) (from start of construction to 30/09/2023)	Amount incurred (Rs.) (from 01/10/2023 to 31/03/2024)
1.	M/s Fitwell Constructions	3,23,679/-	2,26,500/-
2.	M/s Rithwik-HIPL Joint Venture	71,29,076/-	25,09,434/-
3.	M/s PES Engineers Pvt. Limited	5,22,615/-	2,95,595/-
	Total (Rs.)	79,75,370/-	30,31,529/-

Total Cumulative Expenditure by Major Contractors after taking over of JPCL by NHPC- Rs.1,10,06,899.00/-

Annexure-IIB

Expenditure incurred on Medical and Health Facilities to public i.e. Labors/locals etc.by Major Contractors

Details: Major contractors of Project i.e. M/s Rithwik-HIPL JV has established a Health care unit at Project colony equipped at Sikkip with one doctor, one pharmacist, one no. of oxygen cylinder & three ambulances to provide free treatment of labors/site force. M/s Fitwell Construction has provided first aid kits at their sites. Expenditure incurred on these facilities by Major contractors after taking over of JPCL by NHPC is given in the following table.

Sr. No.	Name of the Contractor	Amount (Rs) (from start of construction to 30/09/2023)	Amount incurred on Medical and Health Facilities (Rs) (from 01/10/2023 to 31/03/2024)
1.	M/s Fitwell Constructions	6,000/-	2000/-
2.	M/s Rithwik-HIPL Joint Venture	15,36,041/-	3,53,939/-
3.	M/s PES Engineers Pvt. Limited	50,345/-	9451/-
	Total (Rs)	15,92,386/-	3,65,390/-

Total Cumulative Expenditure by Major Contractors after taking over of JPCL by NHPC - Rs.19,57,776.00/-

Annexure-IIC

Expenditure incurred on Environment Monitoring (Air, Water & Noise quality) by Major Contractors

Details: Air, Water, Noise quality monitoring is being conducted by the major Civil contractor of Project from MoEF & NABL Certified laboratory. Expenditure incurred on Air, Water Quality testing etc. by Major Civil contractor after taking over of JPCL by NHPC is given in the following table-

Sr. No.	Name of the Contractor	Amount (Rs) (from start of construction to 30/09/2023)	Amount incurred on Environment Monitoring (Rs) (from 01/10/2023 to 31/03/2024)
1.	M/s Rithwik-HIPL Joint Venture	58,410/-	58,410/-
	Total (Rs.)	58,410/-	58,410/-

Total Cumulative Expenditure by Major Contractors after taking over of JPCL by NHPC - Rs.1,16,820/-

Annexure-IID

Details of Sanitary facilities in labor camps by Major Contractors

Details: All major contractors of Projects are providing treated potable water to labors. Septic tanks have also been provided in all the labor camps. Expenditure incurred on these facilities by Major contractors after taking over of JPCL by NHPC is given in the following table.

Sr. No.	Name of the Contractor	Amount (Rs) (from start of construction to 30/09/2023)	Amount incurred on Sanitary facilities in labor camps. (Rs) (from 01/10/2023 to 31/03/2024)
1.	M/s Fitwell Constructions	33,000/-	6,000/-
2.	M/s Rithwik-HIPL Joint Venture	13,63,200/-	1,92,000/-
3.	M/s PES Engineers Pvt. Limited	39,568/-	Nil
Total (Rs.)		14,35,768/-	1,98,000/-

Total Cumulative Expenditure by Major Contractors after taking over of JPCL by NHPC - Rs.16,33,768.00/-