

Six monthly Monitoring Report on
Compliance of conditions stipulated in Environment Clearance of Rangit -IV HEP, Sikkim
(Period April-2022 to Sept 2022)

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(EC) b)Forest Clearance	No.J.12011/11/2007-IA-I, dated -16/05/2007 No.3-SKC072/2007-SHI/2419-21,dated 26/12/2007 & No. 3-SKC072/2007-SHI/2861-62 dated 9 th January 2012(Additional land)
4.	Locations a)District b)State c)Latitude d)Longitude	South and West Sikkim 27 ⁰ 13'10"N 88 ⁰ 13' 10"E
5.	Address for Correspondence a)Address of concerned Project Head (with pin code, telephone/fax) b) Address of concerned HOD in corporate Office (with pin code & telephone/fax no.)	Group General Manager(C) Jal Power corporation Ltd Rangit-IV HEP, Sikkim-737121 Email: rangit4@nhpc.nic.in Executive Director (Environment & Diversity Management Division), Corporate Office, NHPC Ltd., Sector - 33, Faridabad, Haryana - 121 003. Phone : 0129 - 2278014, Email: envdivmgn-co@nhpc.nic.in
6.	Detail of Environmental Management Plans	<i>As per Annexure-I</i>
7.	Break-up of the project area (land details) a) Forest land b)Non-Forest land	a)(1)Surface (i) Land =8.4658 Ha. (ii)Roads=1.4280 Ha (iii)Quarry area=0.2080 Ha (iv)Submergence area=11.3740 Ha a)(2)Underground land=3.2765 Ha a)(3)Additional forest land: 0.200 Ha b) Non-Forest land: 21.2335 Ha
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	Project affected Families : 42 Number of Rural Families :42 Number of Urban Families :Nil

	landless labourers/artisans. SC /ST /Tribals/Others	
9.	<p>Financial Details.</p> <p>a) Project cost as originally planned.</p> <p>b) Allocation made for the EMP.</p> <p>c) Actual Expenditure incurred as on the Environmental management so far.</p>	<p>(a)Rs. 938.29 Crores at Oct'2019 PL including IDC &FC and bid amount of Original allocation of Rs. 165 Crores.</p> <p>(b)Original allocation was Rs.10.525 crores which was revised to Rs. 11.62 Crores.</p> <p>(c) Rs.8.21 Crores, As per <i>Annexure I</i></p>
10.	<p>Forest land requirements</p> <p>a) Status of approval for diversion of forest land for non-forestry use.</p> <p>b) The status of clear felling in forestland.</p>	<p>(a)MoEF&CC, vide letter No 3-SKC 072/2007-SHI/2410-21, dated 26th Dec 07 has approved diversion of 24.7523 ha of forestland and 0.2 ha of additional land vide No. 3 SKC072/2007-SHI/2861-62 dated 9th January 2012.</p> <p>(b) Data Not available</p>
11.	<p>Status of construction</p> <p>a)Date of commencement (Actual and Planned)</p> <p>b) Date of completion (actual and /or planned)</p>	<p>Date of Start 1st July, 2008 by Jal Power Corporation Limited.</p> <p>Date of Re-start of Project : 30.03.2021 by Jal Power Corporation Limited (A wholly Owned Subsidiary of NHPC Ltd.) i.e. date of investment Approval by Govt. of India.</p> <p>Planned: May 2024 (i.e. 38 months after taking over by NHPC Limited)</p>
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 2012 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 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.	<p>Details of the site visits:</p> <p>a) By Monitoring Committee</p>	A Monitoring Committee was constituted by Additional Director (IA), MoEF, New Delhi vide letter dated 14.01.2009 and four meetings had been

	b) By Regional Office	<p>conducted. Last meeting was held on 30th January 2013. However, due to stuck up of the project further monitoring committee meetings could not be conducted.</p> <p>A new Multidisciplinary Monitoring Committee has been formed vide letter no. F.no.J-12011/11/2007-IA.I(R) dated 23.09.2022.</p> <p>Total Numbers of visit conducted : 08 (Last visit was held on 30.01.2013)</p>
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: EC Letter dated 16.5.2007 was issued to M/s JPCL (Previous project proponent) and last six monthly report was submitted vide letter :JT:ADMN:2014 Dtd. 12.01.2015. NHPC acquired the M/S JPCL on 30.3.2021 and as per MOEF&CC letter dated 23.2.2022 the EC conditions shall remain unchanged. Accordingly, the present six monthly report has been prepared based on the earlier six monthly report (Dt 12.01.2015).

Annexure-I**Details of expenditure incurred on Environmental Management Plans(EMP) of Rangit-IV HEP**

Sl. No	EMP	Estimated Cost (Rs. Lakh)	Expenditure(in Rs) (up to 30.03.2021 by M/s JPCL, prior to takeover by NHPC Ltd.)	Expenditure(in Rs) (after takeover by NHPC Ltd.)
1	Sanitary facilities in labour camps.	10.0	4,94,343.00	---
2	Solid Waste Collection and Disposal system.	29.9	8,08,572.00	---
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	---
8	Public Health Delivery System.	105.1	21,88,804.00	---
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.	---
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	18,00,000.00
20	Renewal of Consent from State Pollution Control board w.e.f. 2014-15 to 2022-23		---	45,45,000.00
	Sub Total(Rs)	1162.39	7,58,04,178.00	63,45,000.00
	Grand Total (Rs)		8,21,49,178.00	

Part-A: Specific Conditions:

Sl. No.	Conditions stipulated in EC letter dated 16.05.2007, Rangit-IV	Status of Compliance by Rangit-IV HEP (as on September 2022).
i	Catchment Area Treatment Plan has been proposed should be completed in three years.	<ul style="list-style-type: none"> The previous project proponent had deposited Rs. Two Crore to Forest Environment & Wildlife Management Department, Government of Sikkim. The Original CAT Plan provision in the Environment Management Plan was 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 has revised the amount of CAT Plan to Rs. 346.59 lakhs 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 has been 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.	For the implementation of Fish Management Plan, JPCL had consulted with the Central Inland Cold water Fisheries Research Institute, Bhimtal, Uttarakhand for providing necessary consultancy services regarding the implementation of Fish Management plan. The response from their end is awaited. In addition, Fisheries Department, Government of Sikkim has also been approached for necessary advice from their end.

Part-B: 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.
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.	Fuel (LPG) is being procured by the Contractors from the local market as and when required. Contractor's camps are being equipped with recreation facilities etc. Medical facilities are provided by the contractors to the laborers.
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 crate wall and concrete plugs. All precautionary measures will be taken as per the statutory requirements with progress of works.
v	Adequate financial provisions should be made in the total budget of the project for implementation of the above suggested safeguard measures.	Financial provisions has been made in total budget of the project for implementation of the above suggested safeguard 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.	<p>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 stuck up of the project further monitoring committee meeting could not be conducted.</p> <p>A new Multidisciplinary Monitoring Committee has been formed vide letter no. F.No.J-12011/11/2007-IA.I(R) dated 23.09.2022.</p>
vii	Six monthly monitoring reports should be submitted to the ministry and its Regional Office, Shillong for review.	<p>The previous project Proponent (M/sJPCL) had submitted its last report vide letter No JT:ADMN:2014 Dtd. 12.01.2015 to Shillong.</p> <p>After taken over of Project by NHPC Ltd. on 30.03.2021 and in pursuance with MOEF&CC letter dated 23.02.2022, the last six monthly report was submitted to Ministry and its integrated R.O of MOEF&CC at Kolkata vide letter No. NH/Env &DM/219/69 dated 31.05.2022 as an attachment with email ID: yogendra78@nic.in and iro.kolkata-mefcc@gov.in, respectively.</p>
