

KISHANGANGA POWER STATION (330 MW)
SIX MONTHLY PROGRESS REPORT ON ENVIRONMENTAL ASPECTS

(Progress for the period ending March, 2026)

1.	Name of the Project	Kishanganga Power Station (330 MW)																		
2.	Type of the Project	Hydroelectric project																		
3.	Clearance Letter(s) OM No. & Date a) Environment clearance b) Forest clearance	J-12011/36/2003-IA-I dated 09.03.2006. Order No. 219-FST of 2008 dated 27.05.2008 (Forest Department, Govt. of J&K)																		
4.	Locations a) District(s) b) State (s) c) Latitude d) Longitude	Bandipora Jammu & Kashmir 34°39'00''N (dam site) 74°45'08''E (dam site)																		
5.	Address for Correspondence a) Address of concerned Project Head (with pin code and telephone / fax nos.) b) Address of concerned HOD in Corporate Office (with pin code & telephone/ fax no.)	Head of Power Station, Kishanganga Power Station, NHPC Office cum Residential Complex Karalpura, Bandipora, J&K - 193 502. Tele: 01957-225008; Fax: 01957-225011 Executive Director, Environment & DM Division, NHPC Office Complex, Sector-33, Faridabad-121 003 Email: envdivmgn-co@nhpc.nic.in																		
6.	Details of Environmental Management Plans:	Following Environmental Management plans are being implemented at the project: 1. Biodiversity Conservation Plan 2. Catchment Area Treatment 3. Fisheries Development 4. Public Health Delivery System 5. Solid Waste Management 6. Energy Conservation Measures 7. Relocation & Rehabilitation of Dumping sites 8. Landscaping & Restoration of Construction areas 9. Creation of Green Belt around reservoir 10. Disaster Management Plan 11. Resettlement & Rehabilitation Plan																		
7.	Break -up of the Project area (land details) a) Submergence area (forest & non-forest) b) Others	Submergence area (in ha): <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">i.</td><td style="width: 85%;">Forest land</td><td style="width: 10%; text-align: right;">70.00</td></tr> <tr> <td>ii.</td><td>Non-forest land</td><td style="text-align: right;">214.05</td></tr> <tr> <td>A</td><td>Sub-total</td><td style="text-align: right;">284.05</td></tr> <tr> <td colspan="3">Others:</td></tr> <tr> <td>i.</td><td>Forest land</td><td style="text-align: right;">55.00</td></tr> <tr> <td>ii.</td><td>Non-forest land</td><td style="text-align: right;">42.56</td></tr> </table>	i.	Forest land	70.00	ii.	Non-forest land	214.05	A	Sub-total	284.05	Others:			i.	Forest land	55.00	ii.	Non-forest land	42.56
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		(b) Additional non-forest land acquired at Bandipora 3 Marla (c) Additional forest land at Gurez 0.9574 ha Grand Total (a+b_c)= 382.57 ha																																								
8.	Breakup of the Project affected population with enumeration of those losing houses / dwelling unit only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans. a) SC /ST /Adivasis b) Others	Details of Project Affected Families (PAFs): <table><tr><th rowspan="2">Location</th><th colspan="3">Categories</th></tr><tr><th>Fully Affected</th><th>Partially Affected</th><th>Total PAFs</th></tr><tr><td>Powerhouse area (Bandipora)</td><td>05</td><td>166</td><td>171</td></tr><tr><td>Dam area (Gurez)</td><td>143 + 15</td><td>487</td><td>645</td></tr><tr><td>Sub total</td><td>163</td><td>653</td><td>816</td></tr></table> Category-wise classification: <table><tr><th>Location</th><th>Gen.</th><th>SC</th><th>ST</th><th>OBC</th><th>RBA</th><th>Total</th></tr><tr><td>Power house</td><td>114</td><td>02</td><td>53</td><td>01</td><td>01</td><td>171</td></tr><tr><td>Dam area</td><td>-</td><td>-</td><td>645</td><td>-</td><td>-</td><td>645</td></tr></table> (RBA- Reserved Backward Area)	Location	Categories			Fully Affected	Partially Affected	Total PAFs	Powerhouse area (Bandipora)	05	166	171	Dam area (Gurez)	143 + 15	487	645	Sub total	163	653	816	Location	Gen.	SC	ST	OBC	RBA	Total	Power house	114	02	53	01	01	171	Dam area	-	-	645	-	-	645
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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 environmental management plans. d) Actual expenditure incurred on the Environmental Management Plans so far.	₹ 3642.04 Cr. at Sep-2007 PL (CCEA approved). ₹ 5658.82 Cr. at completion cost (Including Dam Toe Power House of 2.4MW) ₹ 5854.37 crores upto March, 2026. ₹ 59.06 crores (EMP) + ₹ 171.22 crores (R&R plan) + 4.42 crores = ₹ 234. 72 crores <table><tr><th>S. No</th><th>EMP</th><th>Funds Allocated (₹ in lakhs)</th><th>Expenditure up to March, 2026 (₹ in lakhs)</th></tr><tr><td>1.</td><td>Biodiversity Conservation Plan</td><td>102.06</td><td>27.50</td></tr><tr><td>2.</td><td>Catchment Area Treatment</td><td>1024.0</td><td>1024.00</td></tr><tr><td>3.</td><td>Fisheries Development</td><td>630.78</td><td>505.00</td></tr><tr><td>4.</td><td>Public Health Delivery System</td><td>186.27</td><td>154.79</td></tr><tr><td>5.</td><td>Solid Waste Management</td><td>91.40</td><td>8.998</td></tr><tr><td>6.</td><td>Energy Conservation Measures</td><td>63.79</td><td>54.05</td></tr><tr><td>7.</td><td>Relocation & Rehabilitation of Dumping sites</td><td>1770.66</td><td>1693.69</td></tr><tr><td>8.</td><td>Landscaping & Restoration of Construction areas</td><td>191.37</td><td>18.26</td></tr></table>	S. No	EMP	Funds Allocated (₹ in lakhs)	Expenditure up to March, 2026 (₹ in lakhs)	1.	Biodiversity Conservation Plan	102.06	27.50	2.	Catchment Area Treatment	1024.0	1024.00	3.	Fisheries Development	630.78	505.00	4.	Public Health Delivery System	186.27	154.79	5.	Solid Waste Management	91.40	8.998	6.	Energy Conservation Measures	63.79	54.05	7.	Relocation & Rehabilitation of Dumping sites	1770.66	1693.69	8.	Landscaping & Restoration of Construction areas	191.37	18.26				
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	9.	Creation of Green Belt around reservoir	58.69	58.69
	10.	Disaster Management Plan	154.12	0.00
	Sub-Total (a)		4273.14	3544.978
	11.	Resettlement & Rehabilitation Plan	17122.00	16335.46
		Financial Assistance to Retrenched Land Owners (Revised on 24/11/17)	442.75	399.93
	Sub-Total (b)		17564.75	16735.39
	12	Compensatory afforestation	95.69	75.00
	13	Compensation for forest land	327.58	257.00
	14	NPV of forest land	1198.23	939.00
	15.	NPA,CA etc of forest land acquired at Gurez on 31.03.2022	12.27	12.27
	Sub-Total (c)		1633.77	1283.27
	Grand-Total (a+b+c)		23471.66	21563.64
10.	Forest Land requirements		Forest clearance for 125 ha forest land was accorded by Forest Department vide order dated 27.05.2008. In- principal Forest Clearance for 0.9574 ha forest land in Gurez by Govt. of J&K on 31.03.2021. This land is devoid of forest cover. Power Station continue pursuing district Administration for FRA Certificate. Total trees involved: 11215 nos. Approval for clear felling = 1460 nos. trees + 842 nos.saplings Clear felling undertaken = 1402 nos. trees	
a) Status of approval for diversion of forest land for non-forestry use.				
b) The status of clear felling in forestland				
11.	Status of construction		Jan. 2009 (Actual) May 2018 (Actual)	
a) Date of commencement				
b) Date of completion				
12.	Reasons for the delay. If, project is Yet to be started.		Not Applicable	
13.	Details of site visits		1st visit and meeting of Multidisciplinary Environmental Monitoring Committee (MDMC) held on 1st June 2011. 2nd visit and meeting of MDMC held on 16-17 Nov. 2012. 3rd visit and meeting of MDMC held on 11-12 Dec 2013. 4th visit and meeting of MDMC held on 10-13 Aug. 2015. 5th visit and meeting of MDMC held on 26-29 Oct. 2017. 6th visit and meeting of MDMC held on 6-7th June, 2023. Visit by representative of Northern Regional Office of MOEF&CC, Chandigarh with EMC visits. Consent to operate order under Section 25/26 of the Water	
a) By Monitoring Committee				
b) By Regional Office				

		(prevention & control pollution) Act, 1974 and under section 21 of the Air (prevention & control pollution) Act, 1981, as applied in J& K Govt Portal for Kishanganga Hydroelectric project, NHPC Office Complex, Kralpora, Bandipora issued by J&K PCC on 21.02.2024 till August-2024 for RED category as per revised classification of industrial sector. Renewal applied and fee also paid for 3 years. Renewal is under advance stage of approval.
		1. Review meeting by Principal Secretary Govt of J&K held on 11.09.2019, 02.11.2019 and 07.01.2020 for various ongoing development works including R&R issue of KGHEP. 2. Site inspection was conducted by officials of J&K State Pollution Control Board on September 2023. 3. Review meeting by District Development Commissioner Bandipora, Govt of J&K held on 18.01.2021 for various R&R and other ongoing Development works.

Status of Compliance of conditions stipulated by MOEF, Govt. of India in Environmental Clearance letter no. J- 12011/36/2003-IA-1 dated 09.03.2006.

S.No.	Condition as per EC letter	Compliance											
Part – A: <u>Specific conditions</u>													
i.	Only one village would now get affected. The exact number of families and population getting affected may be communicated to this Ministry after conducting a fresh socio economic survey of the project affected village. The affected families should be rehabilitated as per R & R plan proposed in the EMP report. A monitoring committee shall be set up for monitoring and implementation of R & R plan. The committee should include a woman Representative from the project affected persons.	MOEF&CC vide letter dated 23.10.2007 accepted socio- economic survey report along with R&R plan prepared by University of Kashmir with a financial implication of Rs. 30.66 crore. However, after series of meetings with various stakeholders, concerned MLAs, the R&R plan was revised to Rs. 253.75 crore and approved by Deputy Commissioner, Bandipora on 03.09.2011. Accordingly, amount of Rs. 6491.58 lakh was released to District Administration, Bandipora for implementation of local area development works, etc. However, as directed by Standing Committee to review the R&R issues held on 19.02.2015, R&R plan was remodeled based on already approved R&R plan for Ratle HEP and was approved by J&K State Govt. Cabinet vide Order dated 09.12.2015 with total financial implication of Rs 152.72 Crores which was revised and approved by J&K Cabinet approved on 22.12.2016 with total cost of Rs. 171.22 crore. As per verification, payment was disbursed to 143 fully displaced PAFs, out of which 125 PAFs opted for cash and 18 PAFs opted for land & cash. Displaced families were successfully evacuated from the submergence area and reservoir filling was done as per Indus Water Treaty. Verification of 05 displaced families was completed at Bandipora and payment was disbursed to them. The R&R Plan was reviewed/ revisited by Empowered Committee in its meeting held on 16.05.2018, wherein following decisions were taken: i) Inclusion of 76 left out families in the list of PAFs ii) Payment of R&R benefits to additional 46 partially affected families in Gurez has been sanctioned. iii) Provision of 05 marla land for displaced families of Badwan Village Gurez. Enhancement in the provision of Solar Street lights for Rs 2 Cr. The revised number of PAFs for the project is under: <table><tr><th rowspan="2">Location</th><th colspan="3">Category</th></tr><tr><th>Fully affected</th><th>Partially affected</th><th>Total PAF's</th></tr><tr><td>Powerhouse area</td><td>05</td><td>166</td><td>171</td></tr></table>	Location	Category			Fully affected	Partially affected	Total PAF's	Powerhouse area	05	166	171
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		(Bandipora)			
		Dam area (Gurez)	158	487	645
		Total	163	653	816
		Review meetings on R&R issues held dated 19.10.2019, 02.11.2019 and 07.01.2020 wherein works related to R&R of KGHEP including were discussed with DDC, Bandipora.			
ii.	Catchment Area Treatment Plan as has been proposed should be completed in six years.	The CAT plan is being implemented through J&K State Forest Dept. An amount of ₹679.94 lakhs was earmarked for CAT Plan in EMP report. However, the CAT plan was revised by J&K State Forest Department with a financial implication of ₹ 1024 lakhs. MOEF&CC vide letter dated 12.01.2016 conveyed NOC for cost escalation of CAT plan. An amount of Rs 18.00 Lakh has been released to J&K Forest Deptt. As seventh installment on 29.08.2022. Thus, the total amount deposited with J&K Forest Department for execution of CAT plan is Rs 997.43 + GST 26.55 lakhs. The physical & financial progress of CAT works till date is as under:			
		Funds released by the Project	Funds utilized by Forest Dept.	Details of Engineering works done	Area covered by plantation& no of plants planted
		Rs. 997.43 Lakhs	Rs. 992.8 Lakhs	DRSM Works: 233532 cum. Crate works: 2843 Nos. Catch Water drain: 1110 rmtr. Brushwood Check dam: 197 nos	Total Area covered : 563 ha Nos. of plants planted: 437300 nos Patch sowing: 82000 nos. Nursery developed;; 3 ha
iii.	The solatium for the project affected families be increased from 15% to 30% in line with the Government of India guidelines.	As per J&K Land Acquisition Act, 1990, 15% Jabrana has been paid to the project affected families as a part of compensation of their land/property.			
iv.	Once the construction of dam is completed the downstream water	This condition is now replaced by MoEF&CC vide letter dated 01.10.2012 as following- "The minimum			

	flow will be reduced. To check mosquito breeding, a minimum rate of flow of water at 60 cm/sec should be maintained. Specific measures to alleviate the problem of malarial mosquito breeding will have to be made as a part of this Project.	environmental flow of not less than 4.25 cumecs shall be released to downstream of the dam for sustenance of aquatic life". However as per order of International Court of Arbitration (ICA), environmental flow of 9 cumecs is being released for which a pipe of 1300 mm dia. has been provided in the Dam body.
v.	Project authorities should take measures for the biodiversity conservation & multiplication of Endangered medicinal plants found in the project area	As per the EMP, an amount of ₹102.06 lakh was allocated for the Biodiversity Conservation Plan. The first installment of ₹27.50 lakh was released to the Wildlife Department, Govt. of J&K, and has been fully utilized. The Assistant Director, Wildlife, through letters dated 25.09.2023 and 27.10.2023, requested the release of the remaining funds for preparation of the DPR and implementation of project activities. To further streamline fund allocation, clarification was sought by PCCF regarding the distribution of the remaining funds between the Wildlife Warden, Sopore, and the Project Officer, CAT. The clarification was subsequently received from the office of the PCCF vide letter dated 06.08.2025. The remaining funds will be released to the Project Officer, CAT, upon submission of the Project DPR. Additionally, the Wildlife Warden has been requested to furnish the necessary account details to facilitate the disbursement of funds.
vi.	Fishery Development Plan as proposed should be Implemented in consultation with the State Fishery Department.	An amount of Rs. 57.33 lakh was earmarked for the Fisheries Development Plan under the EMP report. Of this, Rs. 25 lakh was released to the Fisheries Department, Govt. of J&K in January 2011 for the development of the Fish Farm at Gurez, and the department subsequently submitted a utilization certificate for Rs. 24.48 lakhs. The J&K State Fisheries Department, through its letter dated 10.02.2014, submitted a revised Fisheries Development Plan amounting to Rs. 630.78 lakh, for which Administrative Approval was accorded by the J&K Government vide order dated 23.08.2017. A meeting was held on 13.10.2017 with the Director (Fisheries) and other officials of the Fisheries Department to finalize the schedule of work and codal formalities. It was decided that the balance amount of Rs. 605.78 lakh would be released in four quarterly instalments, subject to submission of utilization certificates. Accordingly, Rs. 150 lakh was released by NHPC on

		09.02.2018 to the Director, Fisheries, Govt. of J&K for executing various components of the approved plan. The Assistant Director, Fisheries, Bandipora submitted the utilization certificate for Rs. 150 lakh vide letter dated 17.04.2019. A site visit was conducted on 04.03.2020 along with the Executive Engineer (R&B), Govt. of J&K, wherein it was noted that the Fisheries Department had completed the development works at Bandipora. To undertake the remaining fisheries works of KGPS, Rs. 230 lakh was released to the Director, Fisheries on 19.02.2021. As on 16.02.2023, a total of Rs. 405 lakh had been released to the Fisheries Department, of which Rs. 287.89 lakh had been utilized. Further, Rs. 100 lakh was released on 25.03.2023 for the remaining fisheries works at Gurez. The Assistant Director, Fisheries, District Bandipora, via letter dated 06.10.2023, has requested the release of the remaining funds amounting to Rs. 125.78 lakh for the establishment of a trout hatchery in Gurez. The funds shall be released on receipt of the Utilization Certificate from the Fisheries Department.
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Part B: General Conditions.

i.	Adequate free fuel arrangement should be made for the laborers force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented	Project stands commissioned. Condition was complied during construction phase.
ii.	Fuel depot may be opened at the site to provide the Fuel (kerosene/ wood/LPG).	Project stands commissioned. Condition was complied with.
iii.	All the laborers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them Work permit.	Condition was complied with. The Project stands commissioned.
iv.	Restoration of construction area including dumping site for excavated materials should be ensure by leveling, filling up of burrow Pits, landscaping etc. The area should be properly treated with suitable Plantation.	The muck generated due to construction works at various sites was dumped at earmarked and approved dumping sites with proper protection measures such as crates walls, etc. to avoid any spillage of muck from the Sites. Restoration works at TBM muck disposal site was taken up by State Soil Conservation Dept. Soil Conservation Officer (Bandipora) and site was Stabilized. In this connection, NHPC on 23.07.2018 has requested Principal Chief Conservator of Forest,

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		GoJK to take up the matter reg. for early restorations of muck dumping sites. DFO (CAT) inspected the site and submitted DPR for relocation & rehabilitation of Dumping sites to NHPC on 21.06.2019. Administrative approval for execution of work was accorded by the Competent Authority on 04.11.2019 and DFO (CAT) has been requested to start the works by NHPC. CF, on 07.01.2020 issued administrative approval for the e-tendering process for the execution of work. Accordingly, Project Officer (CAT) floated tenders on 14.08.2020 informed NHPC that bidder for executing work in Gurez and Muck disposal site, Bandipora has been finalized. TBM site & Kanzalwan site work has been completed. J&K Forest Department has also requested for joint visit of Kanzalwan site.
v.	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard Measures.	Financial provision is kept in Budget.
vi.	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.	A multidisciplinary committee has been constituted to oversee the implementation of environmental safeguard measures at the project.
vii.	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Six monthly monitoring reports are being regularly submitted to MoEF & CC, New Delhi and its Regional Office, Chandigarh.

Other environment safeguard measures:

1. Creation of Green Belt Development around Reservoir:

Forest Department has submitted proposal for execution of work of Creation of Green Belt Development around Reservoir vide letter dated 14.09.2019. Administrative Approval for execution of work was accorded by the Competent Authority on 30.10.2019. As per the requisition submitted by PO, CAT, an installment of Rs 25 Lakhs plus GST was released for the execution of the work and stands utilized.

2. Solid Waste Disposal:

A Sewage Treatment Plant with a capacity of 20 kl/day was installed at the Project Township for the treatment of domestic sewage. Additionally, three more STPs are under construction at the Project Campus, with two having capacities of 100KLD each

and one with a capacity of 50KLD; these are in an advanced stage of construction. The proposal was awarded on 15.09.2022 and is currently in an advanced stage. Furthermore, a system for the collection and disposal of domestic solid waste has been developed. The domestic waste generated is collected by the Municipal Committee, Bandipora, and disposed of at designated disposal sites by them.

3. Monitoring of ambient air, water quality and noise level:

Consent to Operate (Fresh) under Section 25/26 of the Water (Prevention & Control Pollution) Act, 1974, and under section 21 of the Air (Prevention & Control Pollution) Act, 1981, as amended, was renewed until Aug-24 by the J&K Pollution Control Committee. According to the Act, the Power Station is required to comply with the Water Act, Air Act, and Noise Pollution (Regulation and Control) Rules 2000, respectively. Under the Act, the unit holder must have the emission/effluent samples analyzed from the laboratory of the J&K PCC or laboratories approved by the J&K PCC every six months to check the efficacy of Pollution Control Devices (PCDs) installed in the unit.

The letter of award for "Carrying out various Environmental Monitoring Testing at NHPC office cum residential Complex of colony Power House Complex Kralpora Dam site Gurez and Dawar Colony KGPS" has been awarded Newcon consultants and laboratories, Ghaziabad for various testing twice in a year. Agency collected the sample and submitted report in December, 2025 and will collect test samples again in June, 2026.

4. Plantation Drive at Power Station:

Around 500 saplings were planted in Township Area/ Switchyard Area/ Dawar Colony Gurez of KGPS from October, 2025 to March, 2026.
