



Six Monthly Progress on Environmental Aspects

Progress for the period ending November 2012

1.	Name of the Project	Kishanganga HE Project (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 09.3.2006. Forest Department, Govt. of J&K, order No. 219-FST of 2008 dated 27.05.2008
4.	Locations a) District(s) b) State (s) c) Latitude d) Longitude	Dam site: 100m u/s of Malik Kadal in Gurez valley. Powerhouse site: near village Kralpora. 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 pincode & telephone/ fax no.)	General Manager, Kishanganga HE Project, NHPC Ltd. Village- Karalpora, Tehsil & Distt.-Bandipora, J&K - 193 502. Tele: 01957-225008; Fax: 01957-225011 Executive Director (Planning), Corporate Planning Division, NHPC Office Complex, Sector-33, Faridabad-121 003 Tel / Fax: 0129-2271425

6.	Details of Environmental Management Plans:	<p>Following Environmental Management plans are being implemented at the project:</p> <p>S. No EMP</p> <ol style="list-style-type: none"> 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. Rehabilitation of Dumping sites 8. Landscaping & restoration of construction areas 9. Creation of Green Belt around reservoir 10. Disaster Management Plan 11. Revised Resettlement & Rehabilitation Plan 																																												
7.	<p>Break -up of the Project area (land details)</p> <p>a) Submergence area (forest & non-forest)</p> <p>b) Others</p>	<p>Submergence area (in ha):</p> <table border="0" style="width: 100%;"> <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> </table> <p>Others:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 5%;">i.</td> <td style="width: 85%;">Forest land</td> <td style="width: 10%; text-align: right;">55.00</td> </tr> <tr> <td>ii.</td> <td>Non-forest land</td> <td style="text-align: right;">40.02</td> </tr> <tr> <td>B</td> <td>Sub-total</td> <td style="text-align: right;">95.02</td> </tr> <tr> <td colspan="2">Grand Total:</td> <td style="text-align: right;">379.07 ha</td> </tr> </table>	i.	Forest land	70.00	ii.	Non-forest land	214.05	A	Sub-total	284.05	i.	Forest land	55.00	ii.	Non-forest land	40.02	B	Sub-total	95.02	Grand Total:		379.07 ha																							
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8.	<p>Break up 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.</p> <p>a) SC /ST /Adivasis</p> <p>b) Others</p>	<p>Details of Project Affected Families (PAFs):</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="3">Categories</th> </tr> <tr> <th>Families losing house & land</th> <th>Families losing house</th> <th>Families losing land</th> </tr> </thead> <tbody> <tr> <td>Powerhouse area: Chak & Kralpora</td> <td style="text-align: center;">05</td> <td style="text-align: center;">-</td> <td style="text-align: center;">160</td> </tr> <tr> <td>Dam area villages: Badwan , Wampora, Khandiyal, Khapuri</td> <td style="text-align: center;">130</td> <td style="text-align: center;">50</td> <td style="text-align: center;">262</td> </tr> <tr> <td>Sub-total</td> <td style="text-align: center;">135</td> <td style="text-align: center;">50</td> <td style="text-align: center;">422</td> </tr> <tr> <td>Total no. of PAFs*</td> <td colspan="3" style="text-align: center;">607</td> </tr> </tbody> </table> <p>Category-wise classification:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Location</th> <th>Gen.</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>RBA</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Power house</td> <td style="text-align: center;">114</td> <td style="text-align: center;">2</td> <td style="text-align: center;">47</td> <td style="text-align: center;">01</td> <td style="text-align: center;">01</td> <td style="text-align: center;">165</td> </tr> <tr> <td>Dam area</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">442</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">442</td> </tr> </tbody> </table> <p>(RBA- Reserved Backward Area)</p> <p>Note: * Figures have been compiled from data submitted by Collectorate Land Acquisition, Bandipora. Figures are tentative. Committee has been formulated by D.C. Bandipora for finalisation of PAFs under various categories.</p>	Location	Categories			Families losing house & land	Families losing house	Families losing land	Powerhouse area: Chak & Kralpora	05	-	160	Dam area villages: Badwan , Wampora, Khandiyal, Khapuri	130	50	262	Sub-total	135	50	422	Total no. of PAFs*	607			Location	Gen.	SC	ST	OBC	RBA	Total	Power house	114	2	47	01	01	165	Dam area	-	-	442	-	-	442
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9.	<p>Financial details</p> <p>a) Project cost as originally planned and subsequent revised estimates and the years of price reference.</p> <p>b) Actual expenditure incurred on the project so far.</p> <p>c) Allocations made for environmental management plans.</p> <p>d) Actual expenditure incurred on the environmental management plans so far.</p>	<p>Rs. 3642.04 crores at September 2007 PL.</p> <p>Rs. 1835.65 crores upto Nov. 2012.</p> <p>Rs. 49.77 crores + Rs. 253.75 crores (revised R&R plan) = Rs. 303.52 crores</p> <table border="1" data-bbox="743 472 1485 1591"> <thead> <tr> <th>S. No</th> <th>EMP</th> <th>Funds allocated (Rs. in lakhs)</th> <th>Expenditure incurred (Rs. in lakhs)</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation Plan</td><td>102.06</td><td>-</td></tr> <tr><td>2.</td><td>Catchment Area Treatment</td><td>679.94</td><td>396.35</td></tr> <tr><td>3.</td><td>Fisheries Development</td><td>57.33</td><td>25.00</td></tr> <tr><td>4.</td><td>Public Health Delivery System</td><td>186.27</td><td>-</td></tr> <tr><td>5.</td><td>Solid Waste Management</td><td>91.40</td><td>-</td></tr> <tr><td>6.</td><td>Energy Conservation Measures</td><td>63.79</td><td>261*</td></tr> <tr><td>7.</td><td>Rehabilitation of Dumping sites</td><td>1770.66</td><td>-</td></tr> <tr><td>8.</td><td>Landscaping & Restoration of Construction areas</td><td>191.37</td><td>-</td></tr> <tr><td>9.</td><td>Creation of Green Belt around reservoir</td><td>58.69</td><td>-</td></tr> <tr><td>10.</td><td>Disaster Management Plan</td><td>154.12</td><td>-</td></tr> <tr><td></td><td>sub-total (a)</td><td>3355.63</td><td>421.35</td></tr> <tr><td>11.</td><td>Resettlement & Rehabilitation Plan</td><td>25375</td><td>5373</td></tr> <tr><td></td><td>sub-total (b)</td><td></td><td></td></tr> <tr><td>A.</td><td>sub-total (a + b)</td><td>28730.63</td><td>5794.35</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td>12.</td><td>Compensatory afforestation</td><td>95.69</td><td>75</td></tr> <tr><td>13.</td><td>Compensation for forest land</td><td>327.58</td><td>257</td></tr> <tr><td>14.</td><td>NPV of forest land</td><td>1198.23</td><td>939</td></tr> <tr><td>B.</td><td>Grand-Total (A+B)</td><td>30352</td><td></td></tr> </tbody> </table> <p>*Free fuel to labourers is being supplied by the engaged Contractors, therefore, it is not included in the expenditure made under EMP.</p>	S. No	EMP	Funds allocated (Rs. in lakhs)	Expenditure incurred (Rs. in lakhs)	1.	Biodiversity Conservation Plan	102.06	-	2.	Catchment Area Treatment	679.94	396.35	3.	Fisheries Development	57.33	25.00	4.	Public Health Delivery System	186.27	-	5.	Solid Waste Management	91.40	-	6.	Energy Conservation Measures	63.79	261*	7.	Rehabilitation of Dumping sites	1770.66	-	8.	Landscaping & Restoration of Construction areas	191.37	-	9.	Creation of Green Belt around reservoir	58.69	-	10.	Disaster Management Plan	154.12	-		sub-total (a)	3355.63	421.35	11.	Resettlement & Rehabilitation Plan	25375	5373		sub-total (b)			A.	sub-total (a + b)	28730.63	5794.35					12.	Compensatory afforestation	95.69	75	13.	Compensation for forest land	327.58	257	14.	NPV of forest land	1198.23	939	B.	Grand-Total (A+B)	30352	
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10.	<p>Forest Land requirements</p> <p>a) Status of approval for diversion of forest land for non -forestry use.</p>	<p>Forest clearance for 125 ha forest land has been accorded by Forest Department, Govt. of J&K, vide order No. 219-FST of 2008 dated 27-05-2008.</p>																																																																																

	b) The status of clear felling in forest land	Dam area: Data under compilation. Powerhouse area: Approval for clear felling – 1326 nos. Clear felling undertaken – 588 nos. (Process for demarking of the left out trees/ poles has been initiated).
11.	Status of construction a) Date of commencement (Actual and / or planned) b) Date of completion (actual / planned)	22.01.2009 (Actual) 21.01.2016 (Planned)
12.	Reasons for the delay. If the project is yet to be started.	Not Applicable
13.	Details of site visits a) By Monitoring Committee b) By Regional Office	1 st visit and meeting of the Multidisciplinary Monitoring Committee held on 1 st June 2011. 2 nd visit and meeting of the Multidisciplinary Monitoring Committee held on 16-17 Nov. 2012. Visit by Director, Northern Regional Office of MOEF, Chandigarh on 1 st June 2011 and on 16-17 Nov. 2012.
14.	Brief note on the status of compliance of the conditions stipulated by MOEF	Details are enclosed as Annex-A .

Brief report on implementation of the various Environment Management Plans

1. Catchment Area Treatment (CAT) Plan

An amount of Rs. 679.94 lakhs was earmarked for CAT Plan in the EMP report. However, the CAT plan has been revised by the concerned Divisional Forest Officer (DFO), J&K and the cost has been enhanced to Rs. 1024 lakhs. The plan stands deliberated in the 2nd Multidisciplinary Environmental Monitoring Committee (EMC) meeting wherein Forest Deptt. has explained that the revision in the financial implication of plan is due to escalation in labour and item rates and there has been no revision in the physical targets as mentioned in the EMP report. The Project has released the first installment of Rs. 396 lakhs for two year plan, in Oct. 2012. It has also been assured by the Forest Deptt. that some works pertaining to development of nurseries etc. shall be undertaken in the current financial year.

2. Biodiversity Conservation Plan

An amount of Rs. 102.06 lakhs has been earmarked for Biodiversity Conservation plan as per EMP. However, the plan has been revised by J&K State Wildlife Dept. with financial implication enhanced to Rs. 200 lakhs. The revised plan stands deliberated in the 2nd Multidisciplinary EMC meeting wherein the Committee has recommended for revision of cost and labour wages escalation to be incorporated in the revised plan. Further, Wild Life Warden (also a member of EMC) was requested to submit the Annual Work Programme for two years, duly approved by NHPC, for releasing of funds from sanctioned cost.

3. Fisheries Development Plan

An amount of Rs. 57.33 lakhs was earmarked for Fisheries Development Plan in the EMP report. J&K State Fisheries Deptt. has submitted a revised plan for development of fisheries at Gurez / Bandipora with an estimated cost of about Rs. 7.05 crores, which is quite on higher side. The revised plan stands deliberated in the 2nd Multidisciplinary EMC meeting, wherein Jt. Director, Fisheries Deptt. has agreed to submit the revised plan within one month for consideration. An amount of Rs. 25 lakhs has already been released to Fisheries Deptt., Govt. of J&K in Jan. 2011 for works related to development of Fish farm at Gurez. Fisheries Deptt. shall submit the utilisation certificate of the funds already released by the project and shall start works in the current season.

4. Free Fuel Supply

Free fuel in the form of LPG cylinders is being used by the Contractors engaged at various project sites. The quantity supplied till Oct. 2012 and the expenditure incurred for same are as follows:

Year / period	Quantity of LPG cylinders supplied	Expenditure incurred
From commencement of work till Oct. 2012	18,270 nos.	Rs. 2.61 crores

5. Muck Disposal

The muck generated due to construction works at various sites, is being dumped, at the earmarked and approved dumping sites. Further, as per the requirement and location, some of the muck is reused for soling and metalling of access roads to different project sites and for

construction of wire crates/ gabion walls. The restoration work of the muck disposal sites is being taken-up at few locations simultaneously, to avoid spillage of the muck into adjoining agricultural land / nallah course.

6. Health and Hygiene

The project contractor is conducting regular medical check-ups of engaged labour force. No reports/ symptoms of any type of contagious disease are recorded by doctors engaged by contractor.

7. Solid Waste Disposal

Labour/ worker force engaged by the Contractor are accommodated at various newly constructed labour camps within the project area. Disposal of the domestic waste is carried out in collaboration with the Bandipora Municipal Committee at the earmarked site whereas the sewage system has been developed indigenously within labour camps. Further, at various project sites, urinals and toilets have been provided and arrangements have been made to ensure good hygienic conditions by the engaged contractor.

8. Blasting operation/ Ventilation

Controlled blasting is being done under the guidance of explosive expert. All the safety instructions / guidelines and procedure are strictly followed at all sites.

9. Monitoring of ambient air, water quality and noise level

Regular monitoring of the ambient air quality, water quality and noise levels at different project sites is ensured and the results are within permissible limit. Water sprinkling through water tankers on regular basis at various dust prone sites is undertaken. Employees are provided with Personal Protective Equipments viz. dust masks, helmets etc. at requisite places.

10. Resettlement and Rehabilitation plan

R&R plan prepared earlier by University of Kashmir, Srinagar with a financial implication of Rs 30.66crores, has been revised to Rs 253.75crores by the District Administration, Bandipora after series of meetings with various stakeholders, concerned MLAs. The same has been approved by Deputy Commissioner, Bandipora vide letter dated 03.09.2011. NHPC Board has also approved the revised R&R Plan costing Rs 253.75crores. Funds released to District Administration, Bandipora under R&R plan is as follows:

S. No.	Purpose	Amount released (Rs. in lakhs)	Remarks
1.	Development of water supply scheme for the villages adjoining the powerhouse area (Kralpora)	50	Status of work done along with utilization certificate is to be submitted by District Authorities.
2.	Acquisition of land for resettlement colony	4500	
3.	Development of infrastructural works (repair of HT/LT network and construction of maternity Hospital)	823	
	Total	Rs. 5373 lakhs	