



## Six Monthly Progress Report on Environmental Aspects

*Progress for the period ending Sept.2012*

1.	Name of the Project	<b>Uri - II HE Project (240 MW)</b>
2.	Type of the Project	Hydro-electric project
3.	Clearance Letter(s) OM No. & Date a) Environment clearance b) Forest clearance	J-12011/14/2004-IA-I dated 13.08.2004 No forest land is required for the construction of the project. NOC in this regard has been issued by J&K State Government vide letter No. PCCF/FC/292/1514-17 dated 29.07.2003.
4.	Locations a) District(s) b) State (s) c) Latitude d) Longitude	Baramulla Jammu & Kashmir 34° 5' 34" N to 34° 6' 27" N 73° 56' 23" E to 74° 1' 52" E
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.)	General Manager, Uri-II HE Project, Office cum Residential Complex, Nowpora Baramulla (J&K)-193 123 Tel : 01956-210200 Fax : 01956-254203  Executive Director (Planning), Corporate Planning Division, NHPC Office Complex, Sector-33, Faridabad-121 003 Tel / Fax: 0129-2271425
6.	Details of environmental management plans	Following Environmental Management plans are being implemented at the project: <ul style="list-style-type: none"> <li>• Catchment Area Treatment plan</li> <li>• Biodiversity Conservation</li> <li>• Fisheries Development</li> <li>• Health Care</li> <li>• Energy Conservation measures</li> <li>• Muck Disposal</li> <li>• Restoration of construction areas</li> </ul>

		<ul style="list-style-type: none"> <li>• Green Belt development</li> <li>• Solid Waste Management</li> <li>• Disaster Management plan</li> <li>• Environmental studies/ monitoring programme</li> <li>• Resettlement &amp; Rehabilitation plan</li> </ul>																																										
7.	<p>Break -up of the Project area (land details)</p> <p>a) Submergence area (forest &amp; non-forest)</p> <p>b) Others</p>	<p>a) Land required for submergence:</p> <table border="1"> <thead> <tr> <th>Category</th> <th>As per EIA (in ha)</th> <th>Land acquired till date (in ha)</th> </tr> </thead> <tbody> <tr> <td>Forest</td> <td>-</td> <td>-</td> </tr> <tr> <td>Govt.</td> <td>50</td> <td>9.641</td> </tr> <tr> <td>Pvt.</td> <td>25</td> <td>41.352</td> </tr> <tr> <td><b>Total (i)</b></td> <td><b>75</b></td> <td><b>50.993</b></td> </tr> </tbody> </table> <p>b) Land required for other project components:</p> <table border="1"> <thead> <tr> <th>Category</th> <th>As per EIA (in ha)</th> <th>Land acquired till date (in ha)</th> </tr> </thead> <tbody> <tr> <td>Forest</td> <td>-</td> <td>-</td> </tr> <tr> <td>Govt.</td> <td>73</td> <td>44.537</td> </tr> <tr> <td>Pvt.</td> <td>58</td> <td>82.695</td> </tr> <tr> <td><b>Total (ii)</b></td> <td><b>131</b></td> <td><b>127.232</b></td> </tr> </tbody> </table> <p><b>Grand Total (i+ii)    206                    178.225</b></p>	Category	As per EIA (in ha)	Land acquired till date (in ha)	Forest	-	-	Govt.	50	9.641	Pvt.	25	41.352	<b>Total (i)</b>	<b>75</b>	<b>50.993</b>	Category	As per EIA (in ha)	Land acquired till date (in ha)	Forest	-	-	Govt.	73	44.537	Pvt.	58	82.695	<b>Total (ii)</b>	<b>131</b>	<b>127.232</b>												
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8.	<p>Break up of the Project affected families 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>As per the data prepared by the Revenue Authorities, J&amp;K Government based on the revenue details, the PAF details are as under:</p> <p>No. of displaced families : 173  No. of partially affected families: 348  Total no. of affected families : 521</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Category</th> <th>No. of families</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Houseless Grant</td> <td>173</td> </tr> <tr> <td>2</td> <td>Landless Grant</td> <td>79</td> </tr> <tr> <td>3</td> <td>Eligible Persons family Grant</td> <td></td> </tr> <tr> <td></td> <td>a). Families left with &lt; 50% land</td> <td>56</td> </tr> <tr> <td></td> <td>b). Families left with &gt; 50% land</td> <td>265</td> </tr> <tr> <td>4.</td> <td>Transportation Grant</td> <td>173</td> </tr> <tr> <td></td> <td><b>Sub Total (2+3)</b></td> <td><b>400</b></td> </tr> <tr> <td>5.</td> <td>Eligible Persons family Grant</td> <td></td> </tr> <tr> <td></td> <td>Families left with &gt; 50% land</td> <td></td> </tr> <tr> <td></td> <td>State land</td> <td>34</td> </tr> <tr> <td></td> <td>Custodian land</td> <td>87</td> </tr> <tr> <td></td> <td><b>Sub total</b></td> <td><b>121</b></td> </tr> <tr> <td></td> <td><b>Grand Total</b></td> <td><b>521</b></td> </tr> </tbody> </table>	S.No.	Category	No. of families	1	Houseless Grant	173	2	Landless Grant	79	3	Eligible Persons family Grant			a). Families left with < 50% land	56		b). Families left with > 50% land	265	4.	Transportation Grant	173		<b>Sub Total (2+3)</b>	<b>400</b>	5.	Eligible Persons family Grant			Families left with > 50% land			State land	34		Custodian land	87		<b>Sub total</b>	<b>121</b>		<b>Grand Total</b>	<b>521</b>
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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) Allocations made for environmental management plans.</p> <p>c) Actual expenditure incurred on the Project so far.</p> <p>d) Actual expenditure incurred on the environmental management plans so far.</p>	<p>Rs. 2080.82 crores including IDC of Rs. 279.86 crores at September 2011 PL.</p> <p>Rs. 2371 lakhs as per EMP.</p> <p>Rs. 1822.54 crores (till Sept. 2012)</p> <p>For details refer <b>Annex-I</b>.</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 forest land</p>	<p>No forest land is required for construction of the project. NOC in this regard has been issued by the State Government vide letter No. PCCF/FC/292/1514-17 dated 29.07.2003.</p> <p>Not Applicable.</p>
11.	<p>Status of construction</p> <p>a) Date of commencement (Actual and / or planned)</p> <p>b) Date of completion (actual and / or planned)</p>	<p>September 2005 (Actual)</p> <p>March 2013 (Planned)</p>
12.	<p>Reasons for the delay. If the project is yet to be started.</p>	<p>Not Applicable</p>
13.	<p>Details of site visits</p> <p>a) By Monitoring Committee</p> <p>b) By Regional Office</p>	<p>Ist Multidisciplinary committee visit - 24 April - 26 April 2007</p> <p>2<sup>nd</sup> Multidisciplinary committee visit - 04 May -06 May 2008</p> <p>3<sup>rd</sup> Multidisciplinary committee visit - 29<sup>th</sup> July –31<sup>st</sup> July 2009</p> <p>4<sup>th</sup> Multidisciplinary committee visit - 30<sup>th</sup> May –01<sup>st</sup> June 2011.</p> <p>--</p>
14.	<p>Brief note on the status of compliance of the conditions stipulated by MOEF.</p>	<p>Refer <b>Annex-II</b>.</p>

**Annex-I**

**Following Environmental Management Plans are being implemented at Uri-II HE Project (for the period ending Sept. 2012)**

<b>S. No.</b>	<b>EMP</b>	<b>Provision as per EMP (Rs. in lakhs)</b>	<b>Expenditure incurred (Rs. in lakhs) till Sept. 2012</b>
1.	Catchment Area Treatment	1009.35	1028.79
2.	Biodiversity Conservation	50.92	50
3.	Fisheries Development	211.60	50
4.	Health Care	174.24	162.60*
5.	Energy Conservation	75.00	17.74 + 200.90*
6.	Muck Disposal	200.00	33.00 + 267.69*
7.	Restoration of borrow, dumping, construction areas	100.00	50
8.	Green Belt Development	75.00	45
9.	Solid Waste Management	90.00	154.46*
10.	Disaster Management Plan	110.00	0
11.	Environmental studies/ monitoring programme	125.00	261.90*
	Sub-total (a)	2221.11	2322.08
12.	Resettlement & Rehabilitation	149.93	375.00**
	Sub-total (b)		
	<b>Grand-Total (a + b)</b>	<b>2371.04</b>	<b>2697.08</b>

\* Expenditure incurred under civil works package.

\*\* Due to increase in the acquisition of private land, the nos. of project affected families has been increased. An amount of Rs. 375 lakhs has been deposited with the Collector (Land Acquisition) for further disbursement of R&R grant to PAFs.

**Status of Compliance of conditions stipulated by MoEF, Govt. of India in Environmental Clearance letter No. J-12011/14/2004-IA-I dated 13.08.2004 for the period ending Sept. 2012.**

**PART A : SPECIFIC CONDITIONS**

- (i) *Project authorities shall implement the Biodiversity Conservation Plan through the State Agencies for which a sum of Rs. 50.92 lakhs has been earmarked. The plan will suggest measures for in-situ conservation of floristic and faunastic diversity in the two areas, namely Buniyar Nala sub-watershed and the Salamabad sub-watershed.*

**Compliance:** The biodiversity conservation plan has been implemented through the State Govt. No major works has been executed during the period. An expenditure of Rs.50.00 lakhs has been incurred under biodiversity conservation plan.

- (ii) *A representative from the affected families shall be included in the project's Environmental Monitoring Committee.*

**Compliance:** This has been complied with.

- (iii) *Catchment area treatment plan as has been proposed should be completed in 6 years. The treatment will include various biological and engineering measures.*

**Compliance:** The plan is being executed through J&K Forest Dept. The entire sanctioned cost of Rs. 1113.92 lakhs has been deposited with J&K Forest Department for implementation of CAT Plan. J&K Forest Department has submitted utilization of Rs 1087.25 lakhs. The implementation of balance CAT works is under progress. However, J&K Forest Deptt. has extended the CAT Plan works for one year and submitted a proposal of Rs. 370 lakhs. Cost of CAT plan has been increased beyond the sanctioned cost and accordingly, the case is being processed for approval of Competent Authority for release of additional fund. The progress of CAT works is as follows:

S. No.	Particulars	Unit	Target (Rs. in lakhs)		Progress till March 2011		Progress during 12-13		Total Expenditure till Sept.2012 (Rs. in lakhs)	
			Qty.	Fin.	Qty.	Fin.	Qty.	Fin.	Qty.	Fin.
<b>A-</b>	<b>Engineering Works</b>									
1	Check Dams									
a	Brush wood	No.	870	22.50	1044	36.47	-	-	1044	36.47
b	DRSM	No.	1140	113.36	1056	143.59	3850	14.08	4906	157.67
c	Wire crate	No./MT	1680	229.97	166.6	114.04	15	19.37	181.58	133.41
d	EBCD	Cum	6110	15.1	3348	28.85	-	-	3348	28.85
2	Diversion	M	4950	113.27	4822	139.73	500	17.50	5322	157.23

	Drains									
3	Construction of hut		1	32.00	-	5.43	-	-	-	5.43
	<b>Sub-total (a)</b>			<b>526.2</b>						<b>519.06</b>
<b>B-</b>	<b>Biological Measures</b>									
1	Nursery development/ maintenance	ha	4	25.07	5	44.82	-	-	5	44.82
2	Afforestation/ Plantation	ha	1525	195.91	1426	288.09	-	4.67	-	292.76
3	Fodder Plantation			66.89	1320	57.88	-	-	1320	57.88
4	Horticulture	Ha/no.	570	9.15	29770	6.19	-	-	29770	6.19
5	Fencing charges	ha	3600	213.86	1426	72.05	-	-	1426	72.05
	Misc.	LS	-	76.64	-	94.46	-	-	-	94.46
	<b>Sub-total(b)</b>			<b>587.52</b>						<b>568.16</b>
	<b>Grand-Total</b>			<b>1113.72</b>						<b>1087.22</b>

## PART B: GENERAL CONDITINS

- (iv) *Clearance of NCSDP of Central Water Commission should be obtained for earthquake parameters. Seismic stations shall be installed to record and monitor seismic forces before impounding and maintained / monitored during the after impoundment.*

**Compliance:** Clearance has been obtained from NCSDP of Central Water Commission for earthquake parameters. The action for installation of accelerographs at dam site is being taken-up.

- (v) *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.*

**Compliance:** The provision for distribution of subsidized fuel for cooking purpose has already been incorporated in the contract agreement and necessary instruction has been given to the contractor, to comply with the provision. The contractor is providing LPG to labourers free of cost. Details of LPG cylinders supplied and expenditure incurred till Sept. 2012 are as follows:

No. of LPG Cylinders Consumed/ supplied	Expenditure Incurred
(i) 14.2 Kg. Cylinder = 5414 Nos. (ii) 19 Kg Cylinder = 6267 Nos. (iii) 5 Kg Cylinder = 22 Nos. Expenditure (i)+(ii)+(iii) = Rs. 96.82 lacs Supply of electricity through DG sets: Rs. 104.09 lacs (approx.)	Rs. 200.90 lacs

Further, the project has distributed 475 free LPG connections to the land oustees under energy conservation measures at a cost of Rs. 17.77 lakhs. An expenditure of Rs. 218 lakhs have been incurred on supply of fuel and electricity to labourers and LPG connection to outsees.

- (vi) *Fuel depot may be opened at the site to provide the fuel (Kerosene / LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.*

**Compliance:** Fuel depot in the vicinity of the project is used to obtain fuel. The facilities of project dispensaries are also being extended to project labourers and locals. The contractor has established its own dispensary at the working site. Total expenditure incurred for construction of dispensary, salary of Doctor, Paramedical Staff, periodical medical check-ups, vaccination and cost of medicines / surgical items etc as reported by the contractor till Sept. 2012 is Rs. 162.06 lakhs.

- (vii) *Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly afforested with suitable plantation.*

**Compliance:** The excavation works in the project are now nearing completion. Special care for proper disposal of muck is being taken. The muck is being dumped at already earmarked sites for muck disposal. Wire crates/gabion structures are being provided for stabilization of muck dumping slopes. About 103,443.80 cum of gabions have been constructed, against which, an expenditure of Rs. 267.69 lakhs has been incurred. The reclamation aspects and the vegetation of slopes shall be undertaken at later stages, when the excavation activities are completed. As desired by the Committee, stabilization of slope work has been assigned to J&K State Soil Conservation Deptt. Development of park on S-4 dumping site was taken up through the State Forest department and stands completed.

- (viii) *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.*

**Compliance:** A multidisciplinary monitoring committee has been constituted vide office order no. NH/Uri-II/CE/2006/06 dated 04/06.05.06 and so far has conducted four site visits followed by meetings.

- (ix) *Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.*

**Compliance:** Necessary provision has been kept in the DPR and accordingly expenditure is being incurred.

- (x) *Six monthly progress report be submitted to the Ministry and its Regional Office Chandigarh for review.*

**Compliance:** The last six monthly report was submitted to the Ministry and its Regional Office, Chandigarh vide letter no. NH/PD/Env.92/2043 dated 13.7.2012.

## **OTHER ENVIRONMENT SAFEGUARD MEASURES:**

### **1. Resettlement & Rehabilitation:**

The Govt. of J&K had accorded the approval for R&R plan for Rs. 149 lakhs and against which an amount of Rs. 100 lakhs was deposited with the Collector (Land Acquisition) for further disbursement. Collector (Land Acquisition) has disbursed Rs. 80.08 lakhs for houseless grant @ Rs. 80,000/- and transportation grant @ Rs. 8000/-, respectively to 91 PAFs falling under houseless category.

Due to increase in the acquisition of private land, the nos. of project affected families has also been increased from 131 (as per EIA/EMP) to 521. The list of land oustees whose 100%, more than 50% or less than 50% land has been acquired and who are eligible to receive R&R grant has been received from the Revenue Authorities, Govt. of J&K. Project has taken approval for enhancement of fund required for disbursement of compensation to increased in number of eligible PAPs/ PAFs from Board. The Deputy Commissioner has also conveyed the approval for the same. Based on the demand of the Collector (Land Acquisition), an amount of Rs. 375 lakhs has been deposited with the Collector. The Collector (Land Acquisition) has disbursed R&R grant amounting to Rs. 32.40 lakhs to 81 no. of land oustees.

Training programme for project affected people on computer awareness, handicrafts and mobile phone repairing has been undertaken through the NGO "SAVE". 40 and 30 nos. of students from PAFs participated in the training programme for handicrafts and mobile phone repairing, respectively.

A water supply scheme has been implemented for PAP of Village Sadwania Dardkote & Nowpora at a cost of Rs. 1.25 lakhs. Foot path has been constructed at a cost of 8.0 lakhs and 2 nos. of mosques in village Dardkote & Ramgai has been constructed at a cost of Rs. 10.35 lakhs. Some other works shall be executed shortly.

### **2. Fisheries Development:**

The project has deposited an amount of Rs. 50 lakhs with Commissioner Secretary (Forests & Fisheries) in order to facilitate commencement of the plan. The project has handed over the land to the Fisheries Department for fish farm and also has provided a small house for establishing an office at the site. Release of additional fund required for implementation of the plan is under progress. The progress / status of fisheries development is as under:



- a. Intake structure is at the verge of completion.
- b. Protection of intake structure in Jabla nallah by providing wire crate is under progress.
- c. Construction of foundation/ base for open channel of 2400 ft. at the verge of completion and balance work is under progress.
- d. Completion of fish pond is completed except outfall of water from pond to river.

### **3. Sewage and Solid waste disposal**

For sewage disposal, septic tanks with soak pits have been provided in all the colonies. Dustbins have been provided in colonies / camps, and, for collection and safe disposal of solid waste, labourers have been engaged. An expenditure of Rs. 154.46 lakhs has been incurred by the contractor on the construction of septic tanks/soak pits, dustbins, collection of waste through labourers and for construction of sedimentation tanks at tunnel faces.

### **4. Blasting Operation/Ventilation/ control of fine dust:**

Contractor is ensuring controlled blasting/pre-splitting. Licensed blasters undertake the blasting operations. Due care is being taken by site in-charge for implementation of the blasting operation under controlled regime. Barriers have been erected and warning (through sirens) is given to workers at site & to the public before blasting. Delay detonators are being used in underground excavation to control the ground vibrations. Contractor has installed high power ventilation fans for expelling the noxious gases and personnel are not allowed inside the blast area for stipulated time after the blast. The contractor has incurred an expenditure of Rs. 0.81 lakhs on air sampling (noxious gases) and providing of warning signboards etc. at blasting sites. The water quality studies of Uri-II HEP on river Jhelum has been carried out through J&K State Pollution Control Board, Rajbagh, Srinagar. Total expenditure incurred is Rs. 1.08 lakhs. Besides this, the contractor has installed sprinkler systems, which are being used at Crushing plant areas and 5 nos. water tankers are engaged for sprinkling of water on various roads. Workers are being provided with nose masks, ear plugs etc. for keeping them safe from fine dust & sound. Total expenditure incurred is Rs. 259.45 lakhs.

### **5. Plantations/ Environmental related activities:**

Project has organised World Biodiversity Day, Environmental Day in association with SAVE, NGO. The total expenditure incurred is Rs.0.56 lacs.

### **6. Green Belt Development:**

The project has assigned the work of Rim Reservoir Treatment & creation of Green Belt around the reservoir to Soil Conservation Department, J&K Govt. Project has given approval to the proposal to the plan for a cost of Rs. 96.96 lakhs. Soil Department has taken up the preliminary works on ground. The Project has released Rs. 45 lakhs and Soil conservation department has submitted utilization for the same. Release of balance fund is under progress.