



SAWRA-KUDDU
HYDRO ELECTRIC PROJECT
(111 MW)

Compliance Status Report of
Environment and Social
Safeguards

Report No.:- 05

Period: - Six month ending (30-06-2011)

ENVIRONMENT SAFEGUARDING AND MANAGEMENT REPORTING

List of abbreviations and colloquial terms used

ADB	Asian Development Bank
AY	Academic Year
Bigha	Unit for measuring land (One Bigha = about 752 sq mtr)
Biswa	Unit for measuring land (One Biswa = about 40 sq mtr)
CA	Compensatory Afforestation
CAMPA	Compensatory Afforestation Management and Planning Agency
CAT	Catchment Area Treatment
CBO	Community Based Organization
CES	Chief Environment Specialist
CMO	Chief Medical Officer
CSR	Corporate Social Responsibility
DC	Deputy Commissioner
DFO	Divisional Forest Officer
DGM	Deputy General Manager
distt.	District
DPR	Detailed Project Report
ECR	Environment Compliance Report
EIA	Environment Impact Assessment
EMP	Environment Management Plan
FRL	Full Reservoir Level
GoHP	Government of Himachal Pradesh
GoI	Government of India
HCC	Hindustan Construction Company (Ltd)
HDPE	High-Density Poly-Ethylene
HEP	Hydro-Electric Project
HFL	Highest Flood Level
HoP	Head of Project
HP	Himachal Pradesh
HPCEDIP	Himachal Pradesh Clean Energy Development Investment Programme
HPFD	Himachal Pradesh Forest Department
HPPCL	Himachal Pradesh Power Corporation Limited
HPPWD	Himachal Pradesh Public Works Department
HPSEB	Himachal Pradesh State Electricity Board
HPSFDC	Himachal Pradesh State Forest Development Corporation
ITI	Industrial Training Institute
LADA	Local Area Development Agency
LADC	Local Area Development Committee
LADF	Local Area Development Fund
LWSS	Lift Water Supply Scheme
m	Meter
MM	Mahila Mandal (Women's Group)
MoEF	Ministry of Environment & Forests
msl	Mean Sea Level
MW	Megawatt
NPV	Net Present Value
NRRP	National Rehabilitation and Resettlement Plan
PAA	Project Affected Area
PAF	Project Affected Family
Panchayat	Lower most tier (at cluster of village level) of governance in India

Parivar	Family
PAZ	Project Affected Zone
PCC	Project Construction Circle
PIO	Public Information Office
PHC	Primary Health Centre
R&R	Resettlement and Rehabilitation
RoR	Run-of-the-River
Rs.	Indian Rupees/INR
SC	Scheduled Caste
SDM	Sub Divisional Magistrate
SE	Superintending Engineer
SPCB	State Pollution Control Board
Sq kms	Square Kilometer
Sq Mtr	Square Meter
ST	Scheduled Tribe
XEN	Executive Engineer

Note: - Issues already settled have been shown underlined and retained in the report for the reference of reader. Also the points on which there has not been any status change have been shown as underlined.

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**SAWRA-KUDDU (111MW) HYDRO-ELECTRIC PROJECT -
ENVIRONMENT SAFEGUARDING AND MANAGEMENT REPORT**

The Sawra-Kuddu (111 MW) Hydro-Electric Project is being funded by the Asian Development Bank, which is covered under HPCEDIP Tranche-1.

A. IMPLEMENTATION OF SAFEGUARDING MEASURES

I	Name of Project	Sawra-Kuddu Hydro Electric Project (111 MW)
II	Name of Monitoring/ Reporting Agency and address	Internal Monitoring Report of HPPCL
III	Monitoring Period (season / month)	3rd Year (5 th Report)
IV	Report No.	HPPCL-ESMU Sawra-Kuddu-Env-Comp.Rprt-2011/ 05
V	Report for the period	Six month period ending (30-06-2011)
VI	Date of reporting	Sep'2011.


1. Forest Clearance.

Forest Clearance received vide letter No F.No.8-42/2005-FC Govt of India, Ministry of Environment & Forests) (FC Division) Paryavaran Bhawan, CGO Complex, Lodhi Road New Delhi 110 003 dated 2nd June, 2006 from Assistant Inspector General of Forest and approval for additional forest land to the tune of 0.6942ha for explosive magazine at Seema accorded vide GoI MOEF letter no. F.No.8-42/2005-FC Govt of India, Ministry of Environment & Forests) (FC Division) Paryavaran Bhawan, CGO Complex, Lodhi Road New Delhi 110 003 dated 20-01-2010.(Annexure-1)

Compliance status for the conditions included in this clearance letter is given below. Area is given in ha (hectares) and amount in Indian Rupees (Rs.). The unit used is Lakh /lac (One lakh is equal to One hundred thousand or 0.10 million) and Crore (one crore is equal to 10 million or 100 lakh).


S.N.	Measures/ stipulations	Compliance Status
1	<u>Legal status of the forest land shall remain un-changed.</u>	<u>HPPCL will not seek changes in the legal status.</u>
2	Compensatory Afforestation will be raised and maintained over degraded forest land twice in extent to the forest land proposed to be diverted, at the cost of user agency.	<u>For Compensatory Afforestation (CA) over 109.3884 ha i.e. twice the area of forestland diverted (53.2076 ha+0.6942 ha (additional area))in lieu of diversion of forestland for the Project, Rs 70.62 lac (for 53.2076 ha forest land diverted) have been deposited during March, 2006 and Rs 1.58 lac (for 0.6942 ha forest land diverted) during March, 2009 with HPFD (Himachal Pradesh Forest Department).</u> Progress report (physical and financial) as received from DFO

		<p>Rohroo is as under.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Amount received by D.F.O (Rs)</th> <th>Utilized (Rs)</th> <th>Balance (Rs)</th> </tr> </thead> <tbody> <tr> <td>2008-09</td> <td>617500</td> <td>577500</td> <td>40000</td> </tr> <tr> <td>2009-10</td> <td>649000</td> <td>353500</td> <td>295500</td> </tr> <tr> <td>2010-11</td> <td>8243350</td> <td>2328500</td> <td>6210350</td> </tr> </tbody> </table> <p>As per information supplied by DFO plantation of 42932 no trees has been shown covering the area of 39.03 ha under CAT plan works. (Annexure 2,3,4 &5)</p>	Year	Amount received by D.F.O (Rs)	Utilized (Rs)	Balance (Rs)	2008-09	617500	577500	40000	2009-10	649000	353500	295500	2010-11	8243350	2328500	6210350
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3	The entire reservoir area shall be declared as a Reserved forest under Indian Forest Act, 1927 with regulated fishing rights.	<u>The entire reservoir area will be got declared as a Reserved Forest under Indian Forest Act, 1927 with regulated fishing rights after commissioning of the project .The process of collection of revenue papers is under way.</u>																
4	<u>Felling of trees shall be done only when necessary and that too with the prior permission of the state forest department.</u>	<u>Total of 852 trees are involved with a total volume of 765.37 m³ and the cost of these trees has been paid to HPFD. These trees have been got felled through HP State Forest Corporation Limited after getting due approval from HPFD (Copy of DFO , Rohru letter No. 617/G dated 13-07-2009 and No. 2098/ G dated 31-03-2010 (enclosed as Annexure -6 and Annexure 7).</u>																
5	<u>The State Government shall deposit all the above mentioned funds with the Ad hoc body of Compensatory Afforestation Fund Management and Planning Authority (CAMPA) in Account No CA 1595 of Corporation Bank (A Government of India Enterprises) block -11, Ground floor, CGO Complex phase -I, Lodhi Road New Delhi -110003, as per the instruction communicated vide letter No 5-2/2006-FC dated 20-05-2006.</u>	<ul style="list-style-type: none"> Ø <u>A sum of Rs 2.39 Crores deposited against CAT Plan out of 7.31 Crores.</u> Ø <u>Rs 3, 67, 14,900/- during the month of March, 2006 (53.21 ha) against NPV of Forestland.</u> Ø <u>Rs 4, 85,245/- during the month of March, 2009 against NPV of additional Forestland (-0.6942ha).</u> Ø <u>Rs 70.62 lacs stands deposited during March, 2006 against CA(53.21 ha)</u> Ø <u>Rs 1.58 lacs stands deposited during March, 2009 against CA (0.6942 ha) for additional forestland.</u> Ø <u>Balance amount shall be released as and when demanded by HPFD.</u> 																
6	Demarcation of the area shall be done on the ground at the project cost by fixing 4 feet high RCC pillars showing forward and backward bearings.	<p><u>Demarcation of the area on the ground by fixing 4 feet high RCC pillars is complete. In total 175 pillars have been erected to demarcate the reservoir area.</u></p> <p>Forward & Backward Bearings have been written on the pillars.</p>																

		 <p style="text-align: center;"><i>Photograph showing RCC Pillar</i></p>
7	Green belt of adequate width shall be raised on the vacant area , at the cost of project	<p><u>Construction work is in progress and concurrent to construction it is not possible to develop green area along all the components of the project. This work will be taken up once the construction is over. However it is planned to create the Green belt as per the availability of suitable area in consultation with HPFD.</u></p> <p><u>Construction of the roads is now complete. Plantation done in an area of 2 ha. In the period under consideration 500 plants were planted. Upto date No. is 10500 in area of 12 ha.</u></p> <p>More plantations have been done in the project site in the pre-monsoon period of the year 2011(during July2011) which shall be reflected in next report.</p>
8	All steps shall be taken to prevent land slides to ensure slope stability and also to ensure that no damage to the roads, human life and flora & fauna is caused.	<p><u>All preventive measures / necessary steps have been taken on vulnerable points. Retaining walls constructed along roads at different components of project and in the vicinity of barrage area.</u></p> <p><u>In total 950 running meters of retaining walls have been constructed (4250 Cubic meter) to prevent landslides till date.</u></p>
9	The dumping area of muck disposal shall be stabilized and re-claimed and plantation of suitable species shall be carried out over dumping areas at the cost of user agency under supervision of State Forest Department. Stabilization and reclamation of such dumping sites shall be completed as soon as the excavation work is over, before the closer of the project.	<p><u>Muck Management Plan, as part of the EMP, including measures to stabilize/rehabilitate muck dumping sites has been prepared. Stabilization measures include both engineering and biological measures. While the engineering measures are being taken as per need, the biological measures will be taken up after completion of dumping with assistance and guidance of HPFD.</u></p> <p><u>So far 255 running meters of running structures (2295 cum) have been constructed. Dumping on all the approved sites is being done in addition to the one for creating college ground for Sawra Degree College Saraswati Nagar.</u></p>

10	The user agency shall ensure that muck does not roll down the slopes. All such areas where muck has rolled down the slopes shall be rehabilitated at the cost of user agency and under the supervision of State forest department.	The condition is being strictly complied with. In this period 22 no. of wire crates were erected. So far, 1067 number of wire crates, 400 square meter of concrete cladding and 150 meter of RCC wall with 02 meter height has been constructed (up to 30-06-2011).																
11	All quarry for the excavation of stones/ boulders shall be allowed till the construction works of the project are complete. After that area shall be handed back to the State Forest Department after proper reclamation and rehabilitation.	Mining from the designated quarry is yet to be started. As of now excavated material is being recycled and crushed for production of aggregates.																
12	<u>The Catchment Area Treatment Plan (CAT Plan) shall be implemented at the project cost.</u>	<p><u>Provision of Rs 731.08 lacs has been made for the implementation of CAT Plan. Rs 239.45 lac has already been deposited with Forest Department for this purpose and the balance payment of Rs. 491.63 lac will be released in a phased manner as per requirement.</u></p> <p>Progress report (physical and financial) as received from DFO Rohroo is as under.</p> <table border="1" data-bbox="730 992 1453 1330"> <thead> <tr> <th>Year</th> <th>Amount received by D.F.O (Rs)</th> <th>Utilized (Rs)</th> <th>Balance (Rs)</th> </tr> </thead> <tbody> <tr> <td>2008-09</td> <td>617500</td> <td>577500</td> <td>40000</td> </tr> <tr> <td>2009-10</td> <td>649000</td> <td>353500</td> <td>295500</td> </tr> <tr> <td>2010-11</td> <td>8243350</td> <td>2328500</td> <td>6210350</td> </tr> </tbody> </table> <p>As per information supplied by DFO plantation of 42932 no trees has been shown covering the area of 39.03 ha under CAT plan works. (Annexure 2,3,4 &5)</p>	Year	Amount received by D.F.O (Rs)	Utilized (Rs)	Balance (Rs)	2008-09	617500	577500	40000	2009-10	649000	353500	295500	2010-11	8243350	2328500	6210350
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13	All efforts should be made for protection of the environment at the cost of project.	<p><u>To protect the environment, a comprehensive EMP has been prepared which is being implemented. Besides the EMP additional steps when required would also be taken for protecting the environment.</u></p> <p>So far (30-06-2011), Rs. 7.588 million have been spent towards implementation of EMP.</p>																
14	<u>No labour camps shall be set up in the forest area nor should any habitation be allowed to come up in the forest area.</u>	<p><u>Being complied with as all the labour camps are sited away from forests. The detail of 08 labour camps are as under</u></p> <table border="1" data-bbox="730 1727 1417 1953"> <thead> <tr> <th>S No.</th> <th>Name of labour camp</th> <th>Distance from nearest forest</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>M/s Patel Engg Ltd, Hatkoti (DBID works):- i) Hatkoti-I ii) Hatkoti-II</td> <td>1.5 Km 2.00 Km</td> <td></td> </tr> <tr> <td>2</td> <td>M/s KCEL :-</td> <td></td> <td></td> </tr> </tbody> </table>	S No.	Name of labour camp	Distance from nearest forest	Remarks	1	M/s Patel Engg Ltd, Hatkoti (DBID works):- i) Hatkoti-I ii) Hatkoti-II	1.5 Km 2.00 Km		2	M/s KCEL :-						
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		From the above it is clear that no labour camp is located in the forest area.												
15	All efforts shall be made by user agency to avoid any damage to the wild life found in the area.	A Clause in this regard has been inserted in the terms and conditions for all the Contractors/Subcontractors. Periodic inspection of areas adjoining the labour camps and project work sites is being carried out to prevent such damages.												
16	Steps may be taken to minimize biotic pressure over adjoining/near by forests.	<p>So far, (30-06-2011) 34228 Kg LPG, 11848 liters diesels have been provided to community kitchen / mess at all locations by the contractor.</p>  <p style="text-align: center;"><u>Inside view of kitchen /mess at Hatkoti</u></p>  <p style="text-align: center;"><u>Inside view of Kitchen / mess at Snail</u></p> <p>As per provision in the EMP, a Green belt is being created and so far (30-06-2011) 12ha of the plantation has been done.</p>												

		<p>More plantations have been done in the project site in the pre-monsoon period of the year 2011(during July2011) which shall be reflected in next report.</p>  <p style="text-align: center;"><i><u>Plantation along project road side</u></i></p>
17	<p><u>The forest land shall not be used for any purpose other than that specified in the proposal.</u></p>	<p><u>Being observed punctually.</u></p>
18	<p><u>The forest land thus diverted shall be non-transferable. Whenever and whatever extent of the forest land is not required by the user agency, it shall be surrendered to the state Forest Department after proper rehabilitation under intimation to this Ministry.</u></p>	<p><u>Presently all the forestland diverted for the purpose of this project is being used by the Project Proponent for the project components and associated facilities/activities. However, on completion of construction, forestland diverted temporarily shall be returned to HPFD after due rehabilitation.</u></p>



Slope Stabilization Works in Hill Slopes near Snail (Project road side)



Plantation along project road side near Snail



Labour colony complex near Hatkoti {also shows satellite TV antennae set up for labour}



Labour colony complex near Chauri (Snail) {also shows satellite TV antennae set up for labour}




Shopping complex in Labour colony complex near Chauri (Snail)



2. Environment clearance


Environmental Clearance for Sawra-Kuddu (111 MW) HEP was accorded vide Additional Director GoI MoEF letter No. J-12011/13/2006-IA.I dated 17th May, 2007.

Compliance status of conditions of Environment Clearance is given in the following.

S.N.	Stipulations	Compliance Status																
1	Part A-Specific Conditions																	
i)	Catchment Area Treatment Plan as has been proposed should be completed in three years.	<p>A sum of 23.9 million has been deposited with the Forest Department.</p> <p>Progress report (physical and financial) as received from DFO Rohroo is as under.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Amount received by D.F.O (Rs)</th> <th>Utilized (Rs)</th> <th>Balance (Rs)</th> </tr> </thead> <tbody> <tr> <td>2008-09</td> <td>617500</td> <td>577500</td> <td>40000</td> </tr> <tr> <td>2009-10</td> <td>649000</td> <td>353500</td> <td>295500</td> </tr> <tr> <td>2010-11</td> <td>8243350</td> <td>2328500</td> <td>6210350</td> </tr> </tbody> </table> <p>As per information supplied by DFO plantation of 42932 no trees has been shown covering the area of 39.03 ha under CAT plan works. (Annexure 2, 3, 4 &5).</p> <p>Balance funds shall be deposited as and when demanded by forest departments.</p>	Year	Amount received by D.F.O (Rs)	Utilized (Rs)	Balance (Rs)	2008-09	617500	577500	40000	2009-10	649000	353500	295500	2010-11	8243350	2328500	6210350
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ii)	The land holding of project affected persons whose land is being acquired to be submitted to this Ministry. If any person/family whose acquired land is more than 70% of the total land holding is identified, such family/person shall be treated as fully affected person for compensation package applicable in such cases will be undertaken by PVPCL (now HPPCL).	<u>587 No Main PAF. have been identified. (Annexure-8). Matter of identification of land owners whose acquired land is more than 70% of total land holding has been taken up with district administration.</u>
iii)	A Monitoring Committee for RR should be constituted which must includes representative of project affected person from SC/ST category and a women beneficiary	R&R Plan has been finalized. In the present setup the committee administering the LADF is authorized by GoHP to monitor the progress. It is also competent to look into grievance of the PAFs.
iv)	The Commitment made during the public hearing should be fulfilled	<u>Being fulfilled. Status given separately in this report under the title ‘fulfillment of commitments of public hearing’. Under Section 3 of this Report.</u>
V)	The Biodiversity conservation and management plan as proposed in the EMP shall be followed in toto.	<u>It is being implemented.</u>
vi)	All the equipment which are likely to generate high noise level are to be fully mollified (Noise reduction measures).	<p><u>Being implemented by ensuring proper maintenance of machinery/by creating barriers/enclosures around the stationary machinery/equipment. All moving machineries and equipment are provided with silencers to avoid high noise levels. DG sets with noise suppressing jacketing installed. Timing of crushing plants curtailed as per the requests of local inhabitants.</u></p> 
vii)	<u>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.</u>	<p><u>The Muck Management Plan as part of the EMP is being implemented and all the muck sites are more than 6 m high above the HFL.</u></p> <p><u>The dumped muck is being leveled & compacted simultaneously engineering structures provided for retaining</u></p>

		<p>the same. Once the construction activities are completed, the muck duping areas will be treated with plantation.</p>  <p><i>Muck sites are more than 6 m high above the HFL.</i></p>
<p>2 Part-B- General Condition</p>		
<p>i)</p>	<p>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.</p>	<p>LPG is being provided in labour camps by the contractors and subcontractors of HPPCL to prevent tree felling for the purpose of fuel-wood.</p> <p>So far, (30-06-2011) 34228 Kg LPG, 11848 liters diesels have been provided to community kitchen / mess at all locations by the contractor. No incident of tree felling for the purpose of fuel wood has been reported.</p>
<p>ii)</p>	<p>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 labourers.</p>	<ul style="list-style-type: none"> · <u>As stated above LPG is being provided in labour camps by the contractors.</u> · <u>Pharmacist with medical aids has been put in place in labour camps by all four contracting agencies; First aid kits are provided at all the work sites.</u> · <u>Ambulances have been provided at every work site for emergency evacuation of workers if any.</u> · <u>Local government health centre has been strengthened to provide medical facility to project construction workers.</u> · <u>Satellite TV dishes have been provided.</u> 

		  <p style="text-align: center;"><u>Ambulance Facilities at work site</u></p>
iii)	All the labourers to be engaged for the construction works should be thoroughly examined by Health personnel and adequately treated before issuing them work permit.	All the Main contractors are directed to follow up instructions regarding Health personnel and adequately treated before issuing them work permit. Periodic medical checks are being done. No occupational diseases have been noticed.
iv)	<u>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 treated with suitable plantation.</u>	<u>Muck in the dumping sites is being leveled & compacted simultaneously with its disposal. Afforestation over the dump sites would be done once the muck dumping is completed.</u>
v)	<u>Financial provision should be made in the total budget of the project for implementation of above suggested safeguard measures.</u>	<u>A provision of Rs 19.36 Crore has been kept for implementation of the EMP which includes the cost of implementation of these safeguards. The costs are in-built and additional costs are being taken in the revised cost estimate of the DPR. However, it is assured by the management that adequate funds for implementation of EMP shall be made available.</u>
vi)	A multidisciplinary committee should be constituted in consultation with the Ministry	<u>Committee has been constituted by Govt. of HP.</u>

	with ecologists, environmental scientists, Conservationists and experienced administrators etc to oversee the effective implementation of the suggested safeguard measures	
Vii)	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office Chandigarh for review.	Report being submitted on regular basis.
3	Official from Regional office MOEF Chandigarh who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during the inspection.	HPPCL commits to provide full cooperation and data supply, as and when demanded. So far (30-06-11) no one has visited the project site from the concerned office. Officials of state pollution control board pay regular visits to the project and their suggestions/directions are complied with.
4	<u>The responsibility of implementation of environment safeguards rests fully with the PVPCL & Govt. HP</u>	<u>Agreed and being complied with.</u>
5	<u>In case of change in the scope of the project, project would require a fresh appraisal.</u>	<u>No change in the scope is envisaged at present.</u>
6	<u>The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provision of the Environment (protection) Act, 1986 to ensure affective implementation of the suggested safe guard measures in a time bound and satisfactory manner.</u>	<u>Safeguard measures as suggested are being implemented & additional safeguards measures if any suggested subsequently will also be implemented.</u>
7	This clearance letter is valid for a period of five years from the date of issue of this letter for commencement of construction work.	In terms of date, the letter is valid up to for 16.05.2012 for commencement of works. Construction work has already begun with in stipulated date and the MoEF has been intimated in this regard.
8	<u>A Copy of the clearance letter will be marked concerned Panchayat/local NGO's, if any, from who any suggestion/representation has been received while processing the proposal.</u>	<u>Copy of the clearance letter has been sent to concern Panchayats vide letter No. PVPCL/SE/SKCC-DB-SK C.A.T/2007-1301-13 dated 20-07-2007 (Annexure-9).</u>
9	<u>State Pollution Control Board/ Committee should display a copy of the clearance letter at the Regional Office, District Industry center and Collectors</u>	<u>The clearance letter was displayed as stated in this condition.</u>

	office/Tehsildar's office for thirty days	
10	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded Environmental Clearance and copies of the clearance letters are available with the state Pollution Control Board/ Committee and may also be seen at the Web site of the Ministry of Environment and Forest at http://www.envfor.nic.in	Insertion in the News papers was made as desired, a copy of the same is attached as (Annexure-10 and 11).

Some photographic record of environment protection works.



Water Sprinkling On the Project Roads (Hatkoti)



Water Sprinkling On the Project Roads (Snail)



Trees plantation in the labour colony complex at Snail

3. Fulfillment of commitments made in Public Hearing – I & II

S.N.	Issues raised	Commitment at the time of consultation/hearing	Compliance Status
A	First public hearing at Hatkoti on dated 15.06.2006		
1	Water sources in the project area should be inventoried by the project authorities in consultation with the IPH and concerned Gram Panchayats.	Project is committed to inventories the water sources in the project area and damage to project shall be compensated.	Inventory of water sources and house structures along with photographs in the presence of representatives of IPH Department, concerned Pardhan and Project proponent has been completed. In total there are 30 no. of water sources. Periodic monitoring of water resources being carried out in consultation with local representatives. No instance of drying up of any source received/noticed so far.
2	Provision of beautification of Hatkoti temple should be made:	This work can be covered under the LADA funds earmarked by the project proponent.	<ul style="list-style-type: none"> · <u>The work of Development /Maintenance work at Hatkoti Mandir has been awarded amounting to Rs. 16.53 lacs on dated 05-03-2010. Work is in progress.</u> · <u>Rs 10.00 lac deposited with HPPWD</u>

			<p><u>Jubbal for widening, metalling and tarring of link road to Hateshwari Temple from Sawra—Rohru road during March, 2009. The utilization certificate amounting to Rs 5.00 lac out of Rs 10.00 received from Executive Engineer Jubbal. Work is in progress.</u></p> <p>· <u>Additional 19 lacs also released (Total Rs. 24 lacs released so far) for construction of water storage tank on hill for regulating the water supply to temple Complex and for surrounding area. Works are under process.</u></p>
3	<u>LADA should comprise local people and nomination of local people should not be on political consideration.</u>	<u>There is a Provision For nomination of local people in The LADA Committee headed by the Deputy Commissioner.</u>	<u>The body has been nominated by DC Shimla in which local representative are included.</u>
4	Provision should be kept for construction of crematoria.	A provision of Rs. 20 lakhs has been kept in CAT Plan and also this aspect can be covered under LADA funds.	Funds have been allocated. Work yet to start.
5	Employment should be provided to the local people.	Since Pabbar Valley Power Corporation is a subsidiary of HPSEB, employment by it for the project shall be largely from the HPSEB. However, the major private contractors shall be bound by the provisions of minimum 70% employment as prescribed by the State Government.	Of the total people employed about 65% Himachalis have been deployed, so far (till date 30-06-2011).(Annexure-12) 1) Direct Employment:-262 No. 2) Indirect Employment:- a) Contracts:- 58 No. MPAF, PAF&PAA have been benefitted by petty contracts so far. b) 10 No. Persons from MPAF/ PAF/ PAA have given employment on outsourcing basis by HPPCL.
6	<u>Copies of EIA should also be provided to the local Panchayats in project area.</u>	<u>It was appraised that the copies of these documents would remain in the office of SDM, Rohru for public perusal even after the Public hearing.</u>	<u>The same have been distributed in all the affected Panchayats.</u>
7	Plantation along the roads should be done.	Plantation along the project roads will be provided by the Project proponent. As far as the other roads are concerned, this may be considered under LADA funds.	Of the total road length of 11.50 km, plantation along 5.50 km has been carried out So far (30-06-2011). More plantations have been done in the project site in the pre-monsoon period of the year 2011(during July2011)

			which shall be reflected in next report.
8	<u>The construction debris and muck produced should be properly managed in the designated dumping sites.</u>	<u>The EIA/EMP has been prepared and total generation of the debris has been duly estimated including the quantities to be reused for construction purpose. Dumping sites have been identified to dispose of in a proper manner in the designated dumping sites. The debris shall be properly checked by constructing adequate retaining structures ensuring that the water quality/flow or land is not affected due to disposal of debris.</u>	<u>The generated muck from the project sites is being dumped in the designated dumping sites, well protected by providing wire crates & retaining structures. For the purpose five numbers dumping sites have been identified and the muck is being dumped at these sites besides at Sawra College ground.</u>
9	<u>Social intrusion is apprehended due to migratory labour.</u>	<u>Provision of separate labour camps would be provided during construction phase.</u>	<u>Separate labour camps have been constructed near the work sites for migratory labour. Minimum distance of any camp is one Km from nearest habitation.</u>
10	<u>Migratory labour should be provided proper health and educational facilities for their children;</u>	<u>Local infrastructure in terms of health & education may be used and provision of its strengthening shall be made through LADA funds.</u>	<u>PHC Sawra strengthened with the installation of X-Ray Machine purchased by CMO, Shimla for the amounting Rs 5.00 lac released by HPPCL.</u> <u>Medical camps are also being organized in the area with the R&R training-cum-awareness camps. Infrastructure of CBSE pattern School (DAV school) at Sawra strengthened by giving one time financial assistance of Rs 10.00 lac to facilitate assured admission and concessional education to ward of Project affected families, PAA & HPPCL staff.</u> <u>5 rooms have also been provided in HPPCL colony at Chauri (Snail) to run the Primary section of CBSE pattern (branch of DAV school).</u>
11	<u>Resettlement & Rehabilitation Plan is not indicated in the report.</u>	<u>No family is getting displaced. However, people affected to some extent shall be compensated as may be determined by the competent authority.</u>	<u>Standard R&R plan has been prepared on dated 19th January'2009 and being implemented.</u>
12	<u>Noise pollution from project activities should be controlled.</u>	<u>Regular monitoring shall be done during the construction & operation phase of project. Moreover most operation would</u>	<u>Being implemented by ensuring proper maintenance of machinery/by creating barriers/enclosures around the stationary machinery/equipment. All</u>

		underground hence noise at ground level would be minimum.	moving machineries and equipment are provided with silencers to avoid high noise levels. DG sets with noise suppressing jacketing installed. Timing of crushing plants curtailed as per the requests of local inhabitants.
13	Project activities shall not hamper the smooth flow of traffic on the existing roads;	Major components of the project would on the left bank of river Pabber where traffic flow is much less than that on the right bank. However, traffic due to Project shall be regulated such that it does not cause public inconvenience.	No such inconvenience noticed, so far. However, if it takes place, regulations of project vehicles and traffic shall be done.
14	<u>Suggestions from other departments of government should also be taken.</u>	<u>Other departments are also invited for the public hearing besides the issues to be discussed at State Level EIA & M Committee.</u>	<u>Report sent to other departments, no comments received till date.</u>
15	<u>Proponent should organize visit of the people from the project areas to another project which has been operational for sometime.</u>	<u>Proponent readily agreed to the suggestion.</u>	<u>The project authorities organized visit of local people to Sanjay Jal Vidyut Pariyojana (Sanjay HEP) and Nathpa - Jakhri HEP to have interactions with local people of those affected Projects.</u>
16	<u>Construction circle should be immediately shifted to Hatkoti.</u>	<u>This would be done whenever infrastructure developed/available.</u>	<u>One construction circle has been shifted during April'2009 to Hatkoti & other to Snail (Power House Complex) during May'2009.</u>
17	Natural calamity and land subsidence may occur due to tunneling;	Project proponent clarified that most work would be underground and hence there would be minimum disturbance at surface. It was apprised that the underground tunnel cavity in fact would attenuate the lateral as well as vertical operations the vent of earth quads thus reducing the damages to the buildings due to the Project would be compensated by the Project proponent. Baseline inventories of houses/other buildings would be prepared to determine the potential damages. In addition, the existing areas prone to land subsidence would need to be strengthened/protected for the safety of project components.	<u>Some complaints have been received from local residents regarding development of cracks in their houses. Committee has been formed and looking in to the complaints. As an interim measure some compensation has been given to affected people. Final payments shall be given as soon as the committee gives its final report.</u>
18	Horticulture may be affected due to project.	There is no established evidence that project would affect the horticultural produce except for	Complaints of reduction in horticulture production have been received. Requests have been sent to horticulture

		those areas which are acquired for the project for which compensation as determined by the competent authority would be provided.	and agriculture department for formation of committee to look into complaints. If reduction is found attributable to the project construction activities adequate compensation will be paid.												
19	<u>Barrage proposed for the project should also envisage bridge on its top at least for small vehicles</u>	<u>This is not envisaged in the project design in view of the consideration related to the Project security;</u>	<u>No commitment made; hence, fulfillment not required.</u>												
First public hearing at Snail on dated 15.06.2006; ISSUES RAISED AT KUDDU NEAR SNAIL VILLAGE:															
1	Compensation to the project affected people should be adequate & Prompt besides alternative occupation for the land losers.	Compensation to the project affected people shall be determined by the competent authority and project proponent is committed to release it promptly to the Affected people.	<p>Compensation as decided by the competent authorities being disbursed. As per compensation paid so far, following rates have been applied.</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Class of land</th> <th>Rate (Rs / bigha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agriculture (Irrigated)</td> <td>6,17,392.00</td> </tr> <tr> <td>2</td> <td>Agriculture (Unirrigated)</td> <td>3,82,768.00</td> </tr> <tr> <td>3</td> <td>Barren</td> <td>1,21,072.00</td> </tr> </tbody> </table> <p>Till the period ending (30.06.2011) 223 numbers of people have filed reference appeal/petition for enhancement of the rates. Court rulings shall be binding on the HPPCL.</p> <p>1) Total no. of land losers:-587 No. 2) Total land compensation amounting to Rs 44, 59, 81,659/- paid (up to 30-06-2011).</p>	S.No.	Class of land	Rate (Rs / bigha)	1	Agriculture (Irrigated)	6,17,392.00	2	Agriculture (Unirrigated)	3,82,768.00	3	Barren	1,21,072.00
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2	<u>Project road should be extended to the Chauri village.</u>	<u>This could be covered under the LADA funds as per priorities to be fixed by the committee to be constituted</u>	<u>Road shall be extended to Chauri Village.</u>												
SECOND PUBLIC CONSULTATION held on 12.03.2008 at Hatkoti, Distt. Shimla (H.P)															
1	<u>Progress of LADC (Local Area Development Committee)</u>	<u>All the Pradhans of project affected Panchayats have been nominated as member of LADC as per the demand of Panchayat Pradhan in the first meeting. First installment of Rs. 1.92 Crore has been deposited with chairman. LADC Shimla. Further distribution of this amount to the project affected Panchayats will be done by DC Shimla-cum-Chairman LADC. Project will</u>	<p><u>Rs. 3.88 crore has been deposited with D.C. Shimla till date (31.12.2010). Utilization certificate of LADF have been sought from D.C. Shimla which is still awaited.</u></p> <p><u>Distribution of fund for development of Panchayats under LADF made by DC, Shimla (Rs. 153.92 lacs) against first installment is as under :-</u></p>												

		request the DC Shimla to hold the meeting at the earliest. <u>Explanatory Note (added in the proceeding): LADC fund is raised as per HP Hydro Power Project 2006, from the HPPs @ 1.5% of the project cost which is placed at the disposal of the Local Area Development Committee (LADC) headed by the Deputy Commissioner of the district (Administrator of the District) having representatives (Panchayat Pradhan Head of the local unit of governance) of the Project Affected Panchayats).</u>	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Name of panchayat</th> <th>Distribution of funds (lac)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sari</td> <td>24.79</td> </tr> <tr> <td>2</td> <td>Saraswatinagar</td> <td>19.54</td> </tr> <tr> <td>3</td> <td>Mandal</td> <td>12.96</td> </tr> <tr> <td>4</td> <td>Ranvi</td> <td>24.90</td> </tr> <tr> <td>5</td> <td>Kuddu</td> <td>10.77</td> </tr> <tr> <td>6</td> <td>Thana</td> <td>26.16</td> </tr> <tr> <td>7</td> <td>Jhalta</td> <td>34.27</td> </tr> <tr> <td>8</td> <td>Seema</td> <td>0.49</td> </tr> <tr> <td></td> <td>Total</td> <td>153.88</td> </tr> </tbody> </table>	S.No.	Name of panchayat	Distribution of funds (lac)	1	Sari	24.79	2	Saraswatinagar	19.54	3	Mandal	12.96	4	Ranvi	24.90	5	Kuddu	10.77	6	Thana	26.16	7	Jhalta	34.27	8	Seema	0.49		Total	153.88
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2	Rehabilitation of affected people and RR Plan	R & R (Rehabilitation & Rehabilitation) Plan was prepared as per the policy of government in force at the time and provisions as per guidelines of the ADB are incorporated, which will be re-submitted to the State Government for approval at the earliest.	R&R Plan approved by GoHP. Details of benefits released are as under. 1) <u>Grants</u> : - a) The proposal for giving Self employment to MPAF / PAF is under way. b) Scholarships amounting to Rs 4,11,600/- released to the wards of main PAF. b) I.T.I:- 36 no. Students joined in different I.T.I.s of H.P. 2) <u>Employment given so far</u> :- a) MPAF, PAF & PAA:-262 No. c) Bonafide H.P:- 311 No. d) Outsourced (MPAF): - 10No. 3) Amount released so far Rs 1,10,000/- for 02 No. C.B.O,s regarding self employment & safeguards measures being taken by HPPCL:-																														
3	<u>Downstream flow of water from barrage should be 15% where as it has been mentioned as 10% in EIA/EMP report. Why?</u>	<u>The claim was refuted as false and misleading as the downstream discharge from the barrage to be maintained by the project is 15% as per HP Hydro Power Policy and also finds mention in the EIA EMP (paragraph 4.2.1.A and Table-4.2) document</u>	<u>As Explained.</u>																														
4	<u>Downstream fisherman from Hatkoti to Snail, only one license fisherman has been mentioned in EIA report. Whereas as per his knowledge there are more 50 fisherman license</u>	<u>License holder Fisherman prior to notification under Section IV of Land Acquisition Act, will be allowed fishing in the submergence area. Strengthening the hatchery at Dhamwari (up stream of this project) is already provided for in the EIA EMP document. Deputy Commissioner Shimla has been requested to hold</u>	<u>. As Explained and Matter being monitored regularly. Fishing rights shall be transferred in the impoundment to be created due to the project. The progress of the inquiry is in progress. As soon as, any progress is noticed, the same will be incorporated in the next safeguards report due.</u> <u>First installment of Rs. 3.10 million has</u>																														

	<u>holder exists in the affected area. Why?</u>	<u>inquiry regarding the alleged licenses issued after the EIA EMP was prepared or after the section 4 notification.</u> <u>Explanatory Note (added in the proceeding): The section 4 of Land Acquisition Act pertains to the notice of intent of the government to acquire land and this presents the notice of project construction.</u>	<u>been released to HP Fisheries Department vide Sub-Divisional officer (C), Rohru letter No. RHU/RDR/2009-1835 dated 03-09-2009 for development of fisheries (enclosed as Annexure-13)</u>
5	<u>No blasting in the middle of night.</u>	<u>It is assured that blast will not be taken in the midnight particularly after 22:00 hours and before 06:00 hours at least till an appropriate depth is achieved where the impact on the surface is negligible.</u>	<u>As explained the compliance being done.</u>
6	Gram Panchayat Mandal, Ranwi, Thana are most effect Panchayats there are slide prone area as per HP Geological report. Why this fact has not been mentioned in the EIA report. What effective measures are being taken to tide over this situation?	Since the project activity is to remain confined to underground and the blasting done with delayed and staggered method, it is not likely to initiate a surface landslide. Moreover, all the necessary safety measures will be taken during the construction of the project, keeping in view geology of area.	As explained all necessary safety measures are being followed as per the requirement & geological condition. Retaining structures have been constructed at vulnerable points such as road cut surfaces and so far (till dated 30-06-2011) no land slide has occurred.
7	<u>Dumping should be done in waste land not in irrigated land, why it is so.</u>	<u>Dumping sites for the excavated muck has already been identified, which largely is located on barren land but smaller land holdings situate in between or adjacent to muck dumping sites have been included for safety. Some agricultural patches were inevitable.</u>	<u>Dumping of muck is being done in the already identified and approved sites.</u>
8	<u>Irrigation of left out land in Bharot Chak, Management should reply whether the irrigation is provided to left out land what is alternative.</u>	<u>Damaged kuhl (irrigation channel) has been restored by the Project. In future also irrigation facilities to the remaining land shall be made available, if damaged due to project construction.</u>	<u>HPPCL will continue to fulfill the commitment it has given in this regard. Since last restoration no further damage has been noticed.</u>
9	According to policy of Govt. of HP 70%	The policy provision is being complied with and moreover work	Applications of 764 No. of candidates from PAF have been submitted to Main

	employment should be given to local people. Give detail how much people employed from 7 No. Panchayat of trans Pabbar area.	on all components has not started yet. The components currently being executed required skilled workers which are not available locally. Besides, local people do not want to work on underground components for various reasons including risk to life. A list of local people employed in project would be made available at the project office and also to the SDM Rohru	Contractor for providing employment. (about 65% Himachalis have been deployed so far). So far (till 30-06-2011), a total of 235 numbers of petty contracts have been awarded to PAFs with a total contract value of Rs 7,06,62,579.00. In the project 09 No. of vehicles have been hired by HPPCL from local people and additionally 37 No. of vehicles have been hired by contracting firms from local people.
10	Since start of this project. How many times the grievances of Public have been listened.	There was public hearing on dated 15.06.2006. The R & R plan office has been opened to hear the problem of public and to bridge the gap between Public and Project Management. The name, contact details etc. are being notified by the Project Management.	The R&R office/PIO has been opened at <u>Hatkoti to better communication with the PAF/ PAA public and redressed of grievances by concerned officers of HPPCL.</u> During the period under consideration 12 no. grievances were received and all were redressed. Also during this period 14 no. additional demands was received and 5 are under process.
11	<u>Under LADC Sawra Kuddu Panchayat is being offered Rs. 40 lacs on which ground, where tunnel is passing only Rs. 8-9 lacs are being offered to those Panchayats?</u>	<u>All the Panchayat Pradhans have been nominated as Member of LADC and funds are and will be allocated by the LADC in consultation with the nominated member of Project Affected Panchayats.</u>	<u>A distribution formula has been notified by the HPPCL to address these kinds of disputes. Recently the GoHP notified the distribution method with ratio for PAA and PAZ and within PAA as also for various works vide Department of MPP & Power No. MPP-F-(10)15/2006 dated 16.09.09 (copy placed as Annexure-14). Thus, there shall be no such dispute in future.</u>
12	<u>The fund issued against CAT plan is being spent in Rohru area.</u>	<u>First installment of Rs. 50.00 lac of CAT (Catchment Area Treatment) Plan deposited by HPPCL is with Compensatory Afforestation Management and Planning Authority (CAMPA) of Govt. of India. The requirement of the fund has been sent by the Forest Department to release the payment for implementation of CAT Plan.</u> <u>The CAT plan as the name implies is meant for the catchment</u>	<u>In view of explanation given in the hearing (at the time of second consultation) no further action on this issue is required.</u>

		<u>and not only the project affected area. Normally the area draining is taken for treatment under CAT Plan. However, in this case, the same has been extended down to TRT (Tail Race Tunnel) outlet to give benefit to the project affected areas as well.</u>	
13	<u>The X-Ray machine should be given to PHC. Sawra Kuddu instead of construction of Ghat. The Mobile Health Van hired by HPPCL should be kept at the disposal of doctor of PHC (Primary Health Center).</u>	<u>Matter will be reviewed, before initiating any action in consultation with project affected Panchayats.</u>	<u>A sum of Rs 5.00 lac deposited with CMO Shimla for purchase & installation of X-ray plant in PHC Sawra and X-ray plant has been installed at PHC Sawra.</u>
14	<u>When the R & R plan will be started and house should be prepared for houseless families.</u>	<u>R & R Plan was prepared as per the policy of the government and has now been revised to align with the guidelines of the ADB, which will be re-submitted to the state government for approval.</u>	<u>The R & R plan prepared and approved by state Govt. vide letter No. Rev (PC) A (10)-7/2008 dated Shimla-2, the 19th January, 2009.</u> <u>In all, only one (01) person is becoming houseless and Rs. 4.00 lac has been given to him (in advance) and remaining payment will be released shortly.</u>
15	<u>Height of barrages has been shown as 9.20 meters instead of 13.50 meters as shown in the web site. Why so contradiction?</u>	<u>The height of barrage has been reduced to minimize submergence (including private cultivated land) and it is now 9.2 meters above riverbed level with a total height of about 13 meters</u>	<u>The height of Barrage varies at different sections depending upon the river bed profile, however FRL remains unchanged.</u>
16	<u>The total Panchayat in EIA and EMP report are 12, why it is now 8 Panchayat.</u>	<u>Change in the scope of the project reduced the number of affected Panchayats as reflected in the EIA EMP.</u>	<u>These are as per actual.</u>
17	<u>No land looser is in the LADC committee</u>	<u>Constitution of LADC is as per the HP Hydro Power Policy 2006 and it is constituted by the Deputy Commissioner concerned. In this exercise the Project Proponent has no say. However, all Panchayat Pradhans of project affected Panchayats are the member of LADC in case of Sawra Kuddu HEP.</u>	<u>The committee for LADC Constituted by DC Shimla and due representation has been given to Pardhans of affected Panchayats. However, there is no provision to give representation to each land loser in the LADC.</u>


18	<p>What is the policy for land looser who has left only 2.5 Bigha and what programme for them, the land should be given in addition to compensation, so that horticulture can be boosted.</p>	<p>It is partly addressed at 8 (iv) above and people left with less than 5 Bighas of land would be declared landless provision for which is covered under R&R plan</p>	<p>As per R & R plan, the losers of land are being given Rs. 75,000/- as resettlement grant in addition to land compensation.</p>
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BAILY BRIDGE AT ADIT-II SITE (This also helps local people connect with a road facility)

4. ADB Stipulations/safeguarding measures (not covered above)

SN	Product Activity/Stage	Parameter to be monitored	Compliance Status
	Construction		
1	<u>Equipment layout and installation</u>	<u>Construction techniques and machinery</u>	<u>The machinery being used for the project work is fully mollified and produces less noise pollution & Vibrations. The scientific blasting is being done.</u>
2	<u>Temporary blockage of drainage</u>	<u>Temporary fill placement (m³)</u>	<u>No such impact encountered and anticipated.</u>
3	Power House/ tunnel construction	Seasonal start and finish major earthworks/ machine installed (Ph, BOD/COD. Suspended solids, other).	No significant water spillage in to nallahs /river is there, from the construction activities. The results of water quality tests as conducted by pollution control board are given in (Annexure-15) and are well within the limits stipulated by IS Codes.
4	Storage of Chemicals and materials, explosives	Location of hazardous material storage; spill report (type of material spilled, amount (Kg of m ³) and action taken to control and clean up spill).	Materials are securely stored to avoid any contamination of land, water & air. Explosive materials are stored in the Licensed Magazines. No hazardous chemicals stored at the working site.
5	Encroachment into farmland	Usage of existing utilities, Status of existing facilities, Status of facilities (earth work in m ³), Implementation of Crop compensation (amount paid, dates, etc.)	Existing sites/facilities are adequate and no encroachment into farm land is required. No crops are being damaged.
6	Nuisance to nearby properties	Contract Clauses, Design basis and layout, Reinstatement of land status (area affected, m ²), Implementation of Tree/ Crop compensation (amount paid).	Being ensured through implementation of contract provisions and no nuisance to nearby properties is being caused.
7	Flooding hazards due to construction impediments of natural drainage	Contract Clauses (e.g., suspended solids and BOD/COD in receiving water)	The excavated muck from excavations is being dumped in designated dumping sites duly compacted and protected by providing stone wire crate walls/retaining walls to prevent its slippage in to natural drainage system. The water quality parameters are being monitored regularly. (Annexure-15)

8	Equipment submerged under flood	Store room level to be above HFL (elevation difference in meters).	It is being ensured that the plant and equipments are stored 6 m above HFL.
			
9	Inadequate construction stage monitoring	Training schedules, Respective contract checklists and remedial actions taken thereof, Compliance report related to environmental aspects for the contract.	Training to HPPCL personnel related with environmental monitoring is being given /organized from time to time.





View of the submergence area and proposed barrage site


5. Other measures



SN	Safeguarding measures	Compliance status
1.	No additional condition imposed	Compliance not required
At present there is nothing to report under this item.		


B) Status of Implementation of Environment Management Plan

The abstract of various provisions in the approved EMP of Sawra-Kuddu HEP along with their implementation status is tabulated below.

S.N.	Sub-Plan/ Activity	Cost (Rs Million)	Implementation Status including physical & financial
1	Construction of sewage treatment Plant in the project Colony	2.400	<p>Construction of colonies in project area is complete and Septic tanks in both the colonies are functional. Work for construction of STP in both the colonies is underway.</p>  <p><i>Construction of sewage treatment Plant in the project Colony (Hatkoti) is under way.</i></p>
2	Solid waste collection and disposal system	2.340	<p>Receptors have been provided in the project colonies and labour camps. 7 (Seven) people deployed from project affected families (outsourced) to take the waste out of the receptors and dispose at the designated places.</p>
3	Sewage disposal for Labour campus	1.500	<p>Septic tanks have been provided in the Labour camp by respective contractors.</p> 

4	Cost of substitution of fuel wood for work force	1.580	LPG is being provided to labour camps for cooking and for heating free of cost by the contractors.
5	Muck management and rehabilitation of disposal site	33.74	<u>Seven muck dumping sites have been identified involving an area of about 13.16 ha. Presently five dumping sites i.e Mungra-Nadal, Katinda (Jakhi), Bharot, Rajkot (high level), Hiuna , and College ground dumping sites are being operated to dump the excavated material, during dumping process the dumped material is being rammed and compacted with sprinkling of water.</u> Against the total expected 12, 28,440cum of muck, 1186742 cum has been generated so far (30.06.2011), 667385 cum has been proposed for utilization by the project, no permission has been granted for lifting of muck free of cost by others and 519356 cum has been dumped at the designated dumping sites. 5000 cum of muck has been utilized for repair of main highway. Also there is demand for more muck from highway department of the state.
6	Mining area rehabilitation including maintenance for seven years.	4.03	Mining is yet to start in the project designated mines. At present excavated material is being recycled for production of aggregates for use in the project.
7	<u>Compensatory afforestation including maintenance for 7 years</u>	<u>4.265</u>	<u>For compensatory afforestation in lieu of diversion of forest land to Project, Rs 7.062 million has been deposited during March, 2006 and Rs 0.158 million during March, 2009 (Total Rs. 7.22 million) with HPFD for the area (109.3884 ha.), to be afforested.</u>
8	Health delivery system	1.200	Each site has been provided with First Aid Boxes. Pharmacists have been deputed by construction companies for routine checkups. Also local health centre has been strengthened by providing grants to the tune of 0.5 million to cater for additional load of labour force in the area. Ambulance service is available with all the contracting firms & in PHC to meet with any emergency. 

			
9	Control of Air Pollution	1.500	<p>All the three crushers, has been installed. One is near Adit-III, 2nd near Chauri Colony at Snail & 3rd at Barrage site (Hatkoti). All are equipped with washing arrangements hence no dust is created.</p> <p>To control dust on approach roads/work sites, regular water sprinkling i.e. 3 times a day is being ensured. For underground works workers are provided with masks by the contractor.</p>
10	Environmental Measures in project transport lines	1.000	<p>Regular water sprinkling i.e. 3 times a day is being carried out on the project roads by the contractors to arrest emission of dust and plantation of trees is being done alongside the roads with the help of HPFD including maintenance of trees.</p> <p>Contracts worth Rs. 0.809 million have been awarded for water sprinkling along the project roads. 10,500 Plants have been planted along the project roads. More plantations has been done in monsoon season and shall be reflected in next report.</p>  <p style="text-align: center;"><i><u>Water sprinkling on project road side</u></i></p>
11	Noise control measures	0.200	Most of the project work is underground yet over ground operations mainly stone crushers have been provided with CGI Sheet barriers as

			<p>per parameters already set by Industries Department. To reduce the noise from Machinery it is being ensured that Mufflers are provided and exhaust are kept in good conditions during operation. For labour working in underground works ear plugs are being provided by the contractors.</p> 																
12	<u>Sustenance and development of fisheries including O&M</u>	<u>13.000</u>	<u>The existing fishing hatchery at Dhamwari will be strengthened and also fish farming will be started in Reservoir of the project as it comes up. In the process 1st installment of Rs 3.100 million has been released to HP Fisheries Department for providing alternate water supply to Dhamwari Trout Farm. Utilization certificate is still awaited.</u>																
13	Green belt development	1.300	Green belt has been identified along the rim of reservoir area and along the project roads. 10,500 Plants have already been planted so far along the project roads. More plantations shall be done in the coming monsoon season.																
14	Management of dust from transport activities	2.000	Water sprinkling i.e. 3 times a day is being carried out to arrest the dust. The up to date expenditure is 0.8 million.																
15	Road side plantation	2.000	10500 trees have been planted alongside the roads with the help of forest department. Maintenance of the trees has also been entrusted to them. More plantations is planned for the coming monsoon season.																
16	Cost of implementation of CAT plan including maintenance for seven years.	73.108	<p>Rs. 23.9 millions have been released so far (30.06.2011). Progress report (physical and financial) as received from DFO Rohroo is as under.</p> <table border="1" data-bbox="671 1532 1398 1868"> <thead> <tr> <th>Year</th> <th>Amount received by D.F.O (Rs)</th> <th>Utilized (Rs)</th> <th>Balance (Rs)</th> </tr> </thead> <tbody> <tr> <td>2008-09</td> <td>617500</td> <td>577500</td> <td>40000</td> </tr> <tr> <td>2009-10</td> <td>649000</td> <td>353500</td> <td>295500</td> </tr> <tr> <td>2010-11</td> <td>8243350</td> <td>2328500</td> <td>6210350</td> </tr> </tbody> </table> <p>As per information supplied by DFO plantation of 42932 no trees has been shown covering the area of 39.03 ha under CAT plan works. (Annexure 2,3,4 &5)</p>	Year	Amount received by D.F.O (Rs)	Utilized (Rs)	Balance (Rs)	2008-09	617500	577500	40000	2009-10	649000	353500	295500	2010-11	8243350	2328500	6210350
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17	<u>NPV paid to Ameliorate environment</u>	<u>36.715</u>	<u>NPV for forestland diverted for Sawra-Kuddu HEP has been paid to HPFD. Further plans for utilizing this fund for amelioration of the environment is to be prepared and executed by HPFD.</u>
18	Impact mitigation on cultural site	0.300	<u>Cultural sites wherever required will be protected and strengthened .Estimate for Rs. 6.0 lacs has been sanctioned for the construction of Devta Mahasu Temple at Chauri Colony in PH-Complex.</u>
19	<u>Environment Monitoring programme</u>	<u>7.182</u>	<u>Estimate for EMP monitoring (for five years during construction stage & three years operation stage) received from PCB Shimla. Rs 1.535 million deposited for first year monitoring. The work is being Carried out through PCB Shimla.</u>
20	<u>O& M Cost</u>	<u>4.223</u>	<u>Will be implemented in phased manner and funds would be made available from time to time.</u>

C. Implementation of Social and R&R Measures.

Detailed status is given below.

- **Resettlement & Rehabilitation (R&R) Plan:** HPPCL has prepared a very advanced R&R Plan, which has been approved by GoHP, Department of Revenue vide Notification No. Rev(PC) A (10)-7/2008 dated 19.01.09. It incorporates provisions from HP Hydro-Power Policy 2007, NRRP 2007 and ADB Social Safeguards. Salient features are given in **Annexure-16**
- **Local Area Development Fund (LADF):** HPPCL is contributing to LADF in Shimla district as per provision of HP Hydro Power Policy. The status of LADF total amount and amount released for Sawra-Kuddu **HEP** is tabulated below.

Total LADF (Rs in crores)	Released (Rs in crores)	Remarks
9.72	3.88	Two Installments released. Released about 40 % of total amount.

- **Free Electricity:** As envisaged under R&R Plan of HPPCL each PAF will be given 100 units of electricity free of charge per month for a period of 10 years from the date of commissioning of the project.
- **Schemes:** HPPCL has formulated and is implementing a number of schemes, as part of the CSR, which also contributes towards better rehabilitation of PAFs. A write-up on these schemes is attached as **Annexure--17**. However, target and achievements under each in respect of Sawra-Kuddu HEP are listed below.

1. Scheme for skill up-gradation of local youth – sponsoring candidates from Project Affected Families in ITI for a chosen trade:

Name of the Project	No. of candidates nominated in AY 2008-09	No. of candidates nominated in AY 2009-10	No. of candidates nominated in AY 2010-11	No. of candidates nominated in AY 2011-12
Sawra-Kuddu HEP	3	6	11	16

2. **Merit and Support Scholarship Scheme for wards of PAFs:-** This scheme has been initiated during the Academic Year 2009-10 and detail of scholarship been awarded to wards of PAFs as enumerated below along with the targets for the year 2010-11.

SN	Grade of the School for which Scholarship is proposed	Merit & Support Scholarship Scheme		
		Rate of Scholarship	Scholarship awarded during (2009-2010)	Scholarship awarded during the year 2010-11
1	Matriculation (from 6 th standard up to 10 th standard)	Rs. 500/- pm	10	12
2	Plus two (11 th & 12 th standard)	Rs. 700/- pm	6	8
3	Vocational Training (ITI)*	Rs. 1000/- pm	3	2
4	Diploma in Engineering/ Pharmacy/Computer	Rs. 1500/- pm	3	2
5	Degree in Engineering / Medicine	Rs. 2000/- pm	1	1
Total		-	23	25

3. Training-cum-Awareness Camps:

Achievements and targets in respect of Sawra-Kuddu HEP are tabulated below.

Name of Project	Camps Organized during (2008-09)	Camps organized during (2009-10)	Camps organized during year (2010-11)	Camps organized during year (2011-12) upto 30.06.2011
Sawra-Kuddu HEP	0	05	04	02

4. **Scheme for involving Community Based Organizations:** The scheme has been started last year (2009) and 2 CBO's (Mahila Mandal Sari and Bharot) have been selected from PAA. Out of total financial assistance of One Lac, 3rd installment of Rs 20,000/- has been released to both the MMs making total disbursement as Rs 50000 to MM Sari and Rs 60000/- to MM Bharot. For the year (2010-11) the proposed target under this scheme was involvement of 1 more CBO which has been achieved.

5. Other activities:

HPPCL sponsors annual sports event for each project separate for men and for women: Under this scheme in Sawra-Kuddu HEP during 2009-10 two tournaments were organized as listed below:-

- a) Men tournament held w.e.f 27-02-2011 to 28-02-2011 at Sari) for Volleyball
- b) A race competition was organized on dt 26.03.2011 at Dhadi Rawat.
- c) Competition for school students: During the period under consideration two School competitions were organized upto 30.06.2011 on painting and cultural activities in Dhadi Rawat and Mandal Schools on dated 26.03.2011 and 4.06.2011 respectively.
- d) **Self Employment Scheme:** The Scheme has been formulated by HPPCL during 2009 and is being implemented. Under this financial assistance has been given to 5 persons.
- e) **Annual Varshik Mela:** Annual varshik mela was organized at Hatkoti on 31-03-2010. Free medical checkup was organized and medicines worth Rs 50000 were disbursed. Team from Horticulture University Solan apprised the local people about benefits of organic manure and process of production of same. Literature on good practices in Horticulture was also distributed. Medicinal plants and seeds of flowers were also distributed. Debates on environment protection, female foeticide and energy conservation was held. Cultural programmes were also held. Prizes were given to participants and in total expenditure worth Rs 2.5 lac was incurred.

During the period under consideration two no. camps were organized on horticulture and career counseling on 17.01.2011 and 25. 02.2011 at Ranvi & Hatkoti respectively.

- f) In addition to above following R&R measures have also been implemented.

SN	Measures	Progress status
1	<u>Each Project Affected Family will be suitably and adequately compensated to ensure replacement of the assets lost or acquired.</u>	Total land compensation amounting to Rs 44, 59, 81,659/- paid (up to 30-06-2011).
2	The local population of the Project Affected Area will be provided guidance and counseling education through scholarships, sponsorships guidance for better living conditions and better livelihood including training in the area of common occupations like Agriculture, Horticulture etc.	i) <u>16 no Candidates (MPAF) sponsored for ITI Training during 2011.</u> · Scholarship scheme. Total amount of Rs 4.11 lac Scholarship released to 36 no children's of PAF's families during till date. 1) Organizing Training –cum awareness camps in project affected area:- · A Camp organized on dated 17-01-2011 regarding horticulture at Ranwi. · A camp on career counselling organized on

		dt 25.02.2011 at Hatkoti.
3	<u>General Development of the project area by building or improving infrastructure such as roads, footpaths, bridges, water supply, irrigation through public participation and community development works etc.</u>	<u>Project is funding LADF through which such works are being carried out. Besides, HPPCL is also directly carrying out a number of works as part of its CSR.</u>
4	<u>Creating opportunities of employment for local people through self employment schemes or indirect employment in project activities.</u>	<u>Shopping complex in the colony at Snail is under construction where shops are to be allotted to PAFs. In addition to this under self employment scheme it is proposed that financial assistance amounting to Rs. 50,000 will be imparted to 5 PAFs for financial year (2010-11).</u>
5	Maintaining a friendly contact with the public through regular meetings, Public Information Centre, printed material, PAF identity card, functions etc.	Identity Cards prepared & distributed to affected persons in different Panchayats. Public information centre made functional at Hatkoti. 2 no R&R coordinators from among the MPAF/PAF have been engaged for proper contact with general public. Also R&R staff remains in regular contact with public.
6	Providing direct help to the people in extreme hardship.	Will be implemented if such situation arises.
7	<u>Under CSR scheme:</u>	<ul style="list-style-type: none"> i. <u>Rs 5.00 lac provided to Director Health for X-Ray Plant for PHC at Saraswatinagar.</u> ii. <u>Rs 10.00 lac out of Rs 10.00 lac released to upgrade DAV School for better infrastructure and balance amount will be released shortly.</u> iii. <u>Development of park at Hatkoti:- Work amounting to Rs 16.21 lacs awarded on dated 05-03-2010</u> iv. <u>For widening of approach road to temple Hatkoti: - Rs 10.00 lac released on dated 06-03-2009. Utilization certificate for an amount of Rs 5.00 lac received out of Rs. 10.00 lac released.</u> v. <u>For construction of water Storage tank on hill top at Hatkoti Rs 24 lacs is being released to I&PH Department on this account.</u> vi. <u>5 no rooms provided to CBSE pattern school (DVA School Management) in HPPCL Colony at Chauri(Snail) for</u>

		<p><u>school facility to be provided for words of MPAF/PAF/PAA & HPPCL staff.</u></p> <p><u>In pursuance of Social welfare / development works under CSR various construction works in the project area amounting to Rs. 2.33 crores were also awarded to MPAF/PAF/PAA/PAZ contractors till date.</u></p>
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8.0	Direct & Indirect Employment by Project.	<ul style="list-style-type: none"> · Employment: - Application of PAF candidates is being submitted to main contractor firms & other contractors for providing employment. Overall 65% of Himachalis presently working in Sawra Kuddu HEP (111 MW). · In the project 09 No. of vehicles have been hired by HPPCL from local people and additionally 37 No. of vehicles have been hired by contracting firms from local people. · 235 nos petty contracts of Infrastructure works of the project work worth Rs 70.066 million were awarded to MPAF/PAF/PAA contractors till date. Apart from this, the main contracting firms have also awarded 50 nos. various infrastructure works to contractor of MPAF/PAF/PAA/PAZ
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D. Staffing Position

Following is the staff position for Environment Management in the project and Social and R&R management in Sawra-Kuddu HEP.

S.N.	Reporting Aspect	Staff posted
1	Environment Management staff	Additional charge to a Sr. Manager & Assistant Engineer (Civil) for environment related works
2	Social and R&R Management	Additional charge to a Sr. Manager & Assistant Engineer Two Junior Officer (R&R); two Coordinator (R&R), besides one ministerial staff has also been provided to R&R cell.

E) Annexure