



Himachal Pradesh Power Corporation Limited

(A State Govt. Undertaking)

Corporate Identity Number (CIN) :- U40101HP2006SGC030591

Sawra Kuddu HEP (111MW), HPPCL, Hatkoti, Tehsil Jubbal, Distt. Shimla H.P.-171206

No: HPPCL/GM-SKHEP/Env/2018-19-3904-97

Dated :- 1-12-2018

To

Dr.S.C.Katiyar,
Scientist 'D', Govt. of India,
Ministry of Environment Forest & Climate Change,
Regional Office, Pearson road, FRI campus,
Dehradun-248006.

Subject: - Submission of Six Monthly Environment Safeguards Compliance status report for the reporting period 01-04-2018 to 30-09-2018.

Sir,

Enclosed please find herewith Six Monthly Environment Safeguards Compliance status report for the reporting period ending 01-04-2018 to 30-09-2018 in respect of Sawra Kuddu HEP (111MW).

This is for your information please.

Yours faithfully,

DA: As Above.

DM
General Manager,
Sawra Kuddu HEP,
HPPCL, Hatkoti.

Copy to the following along with enclosure for information please:-

1. The Chief Environment Specialist, Himfed Bhawan, HPPCL, Near BCS, New Shimla-9.
2. The Dy. General Manager (HRT), Sawra Kuddu HEP, HPPCL, Hatkoti.
3. The Sr. Manager(IT), HPPCL, Himfed Bhawan, HPPCL, Near BCS, New Shimla-9 for uploading of report on HPPCL website w.r.t. Chief Environment Specialist office letter No. HPPCL/ESMU-2/IKHEP/Vol-V/2016-1327-32 Dated 22-03-2016. **DA: CD containing Soft Copy of Report.**

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SAWRA-KUDDU
HYDRO ELECTRIC PROJECT
(111 MW)

**Compliance Status Report of
Environment Safeguards**

Six monthly Environment Compliance

Reporting Period: w.e.f. 01-04-2018 to 30-09-2018

Submission: - December, 2018.

List of abbreviations and colloquial terms used

ADB	Asian Development Bank
AY	Academic Year
Bigha	Unit for measuring land (One Bigha = about 752sqmtr)
Biswa	Unit for measuring land (One Biswa = about 40 sqmtr)
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
Sqkms	Square Kilometer
SqMtr	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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A. Environment Safeguards implementation report in respect of Sawra-Kuddu HEP (111MW) for the period w.e.f. 01-04-2017 to 30-09-2018.

S. No.	Environment Safeguards Conditions	Action Taken/Reply
1.	Component wise Construction Status of the project and Commissioning Schedule.	Attached as annexure-1 (a, b & c).
2.	Physical and financial progress of CAT Works during the reporting period.	<p>Till Now a sum of 6.62 Crore has been deposited with the forest department. Balance funds shall be deposited as and when demanded by forest department.</p> <p>As per information supplied by DFO plantation of 42932 no trees have been shown covering the area of 39.03 ha under CAT plan works.</p> <p>Upto date financial progress is Rs. 4,44,64,092/- only.</p> <p>The Physical/Financial progress for the quarter ending June'18 & Sept.'18 has been received showing financial progress of Rs.Nil & Rs. 2.14 Lacs respectively (Attached as Annexure-2 & 3).</p>
3.	Physical and financial progress on implementation of resettlement and rehabilitation Measures.	Attached as annexure-4.
4.	Upto date information on the project in 13 point data sheet (A copy may be downloaded from the website http://nrodmoef.gov.in).	Attached as annexure-5.
5.	Latest monitoring reports in respect of ambient air quality, noise level, ground water quality, biological/ chemical oxygen demand (BOD/COD) and coliform count of surface water, etc., carried out by HPSPCB.	Attached as annexure-6.
6.	Comprehensive physical and financial progress about disbursement of medical facilities to the workers.	<p>Package wise detail of physical and financial progress about disbursement of medical facilities to the workers is attached as annexure-7.</p> <p>Pharmacist with medical aid has been deployed in labour camps by HPPCL and the contracting agencies for regular check-up of the workmen as well as project staff. First aid kits are also provided at all the work sites. Ambulances have been provided at</p>

		<p>every work site for emergency evacuation of the workers, if any. Local Govt. Health centre has been strengthened to provide medical facility to project construction workers.</p> <p>The doctors and local representatives suggested that the laboratory shall be opened at the Primary Health Centre (PHC) at Sawra. These equipments were procured from PMFMC account amounting to Rs.3.0 lacs. The procurement of these lab equipments has been done and put to use for general public at primary health centre Sawra.</p>
7.	Upto date detail about the quantum of crate work/ wire crate works/ breast wall etc. at different dumping sites.	<p>In total 1025.50 running meters of retaining walls have been constructed (4927 Cubic meter) to prevent landslides till date (i.e. 30-09-2018).</p> <p>This is a continuous process and wherever need is felt retaining structures are erected to keep the slopes stable.</p>
8.	Information on the dumping sites which have been fully utilized and now stopped for further dumping. In such cases the rehabilitation work should be completed and the sites should be returned to the Forest Department. Action taken so far in this regard may be intimated.	<p>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 into natural drainage system. Muck has been allowed to be lifted for utilization by other Govt./ Non-Government agencies and there are chances that in near future whole of the muck would get recycled and sites restored to their original shape.</p>
9.	Upto date figures for allocation of funds for different Environment Management Plan along with utilization of funds.	Upto date expenditure detail has been attached as Annexure-8 .
10.	Upto date physical and financial progress on afforestation including location area covered by plantation and number of plants planted till date.	<p>Compensatory afforestation over an area of (108.00 + 1.3884+ 0.6944) i.e. 110.08 Ha. Compensatory afforestation over 108.0 Ha. area of land was done till year 2007-08. Additional area of 2.088 ha was brought under CA during quarter ending 31-03-2014. Till date utilization of Rs.22,46,400/- has been shown by HP forest department. Upto date Rs. 72.87 lacs have been deposited with HP forest department on this account.</p>
11.	Physical and financial progress on fisheries development.	<p>1st instalment of Rs. 31.0 lacs have been released to HP fisheries Department for providing alternate water supply to Dhamwari Trout Farm. Rs. 7.344 Lacs has been utilized upto the year 2009-10 as per</p>


		<p>the utilization certificate given by Fishery Department.</p> <p>As per the information provided by the department the funds are further allocated to other agency for executing the work. Progress is awaited.</p> <p>As and when more funds would be demanded by Fishery Department, same would be provided.</p>
12.	The information on number of labours engaged by different contractors, quantity of free fuel supplied and expenditure incurred in the following Performa for the period w.e.f. 01-04-2018 to 30-09-2018.	The information is annexed as annexure-9 .
13.	The information on number of labourers medically got checked by different contractors, expenditure incurred on medicines and other medical facilities in the following Performa for the period w.e.f. 01-04-2018 to 30-09-2018.	The information is annexed as annexure-7 .
14.	Detail of social welfare measures and other schemes being run for the locals and project affected people.	The information is annexed as annexure-4 .
15.	Newspaper cutting of the advertisement about environment clearance given in the newspapers.	Insertion in the Newspapers was made as desired. (Annexure-10)
16.	Measures being taken to release at least 15% of water downstream during lean season period.	The discharge shall be monitored/ maintained during the operation phase of the project. The provision of fish ladder has been included in the design of the diversion barrage structures. In addition, an environment flow pipe of dia 600 mm has also been embedded in the structure. Discharge shall be regulated as per norms during operation phase.

B. 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 (**Annexure 11**).

Compliance status of conditions of Environment Clearance is given in the following: -

S. No	Stipulations	Compliance Status																																																																																																																																					
1	Part A-Specific Conditions																																																																																																																																						
i)	<p>Catchment Area Treatment Plan as has been proposed should be completed in three years.</p> <table><tr><td>Treatment Measure</td><td>Y-I</td><td>Y-II</td><td>Y-III</td><td>Y-IV</td><td>Y-V</td><td>Total</td></tr><tr><td colspan="7">(i) Biological Treatment</td></tr><tr><td>Social forestry</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>300 Ha</td></tr><tr><td>Fuel wood and fodder grass</td><td>91 Ha</td><td>91 Ha</td><td>91 Ha</td><td>91 Ha</td><td>91 Ha</td><td>455 Ha</td></tr><tr><td>NTPP</td><td>50 Ha</td><td>50 Ha</td><td>50 Ha</td><td>50 Ha</td><td>50 Ha</td><td>250 Ha</td></tr><tr><td>Nursery Developem ent</td><td>2 No.</td><td>--</td><td>--</td><td>--</td><td>--</td><td>2 No.</td></tr><tr><td>Pasture Developm ent</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>60 Ha</td><td>300 Ha</td></tr><tr><td colspan="7">(ii)Engineering Treatment</td></tr><tr><td>Wire crates</td><td>40</td><td>40</td><td>40</td><td>40</td><td>40</td><td>200</td></tr><tr><td>Vegetative Spurs</td><td>80</td><td>80</td><td>80</td><td>80</td><td>80</td><td>400</td></tr><tr><td>Contour Trenching</td><td>20 Ha</td><td>20 Ha</td><td>20 Ha</td><td>20 Ha</td><td>20 Ha</td><td>100 Ha</td></tr><tr><td>Bench Terracing</td><td>25 Ha</td><td>25 Ha</td><td>25 Ha</td><td>25 Ha</td><td>25 Ha</td><td>125 Ha</td></tr><tr><td>Catch water drains</td><td>100 Ha</td><td>100 Ha</td><td>100 Ha</td><td>100 Ha</td><td>100 Ha</td><td>500 Ha</td></tr><tr><td>R-wall & Check dams</td><td>97 Ha</td><td>97 Ha</td><td>97 Ha</td><td>97 Ha</td><td>97 Ha</td><td>485 Ha</td></tr></table>	Treatment Measure	Y-I	Y-II	Y-III	Y-IV	Y-V	Total	(i) Biological Treatment							Social forestry	60 Ha	60 Ha	60 Ha	60 Ha	60 Ha	300 Ha	Fuel wood and fodder grass	91 Ha	91 Ha	91 Ha	91 Ha	91 Ha	455 Ha	NTPP	50 Ha	50 Ha	50 Ha	50 Ha	50 Ha	250 Ha	Nursery Developem ent	2 No.	--	--	--	--	2 No.	Pasture Developm ent	60 Ha	60 Ha	60 Ha	60 Ha	60 Ha	300 Ha	(ii)Engineering Treatment							Wire crates	40	40	40	40	40	200	Vegetative Spurs	80	80	80	80	80	400	Contour Trenching	20 Ha	20 Ha	20 Ha	20 Ha	20 Ha	100 Ha	Bench Terracing	25 Ha	25 Ha	25 Ha	25 Ha	25 Ha	125 Ha	Catch water drains	100 Ha	100 Ha	100 Ha	100 Ha	100 Ha	500 Ha	R-wall & Check dams	97 Ha	97 Ha	97 Ha	97 Ha	97 Ha	485 Ha	<p>Till Now a sum of 66.2 million has been deposited with the forest department. Balance funds shall be deposited as and when demanded by forest department.</p> <p>The physical/financial progress for the quarter ending June.'18 & Sept.'18 has been received showing financial progress of Rs.NIL & Rs2.14 Lacs respectively. Upto date financial progress is 4,44,64,092/- only.</p> <p>The summarized detail of the physical / financial progress from the above progress received from HPFD, is as below: -</p> <table><tr><th>Sr. No.</th><th>Component</th><th>Phy. Progress during reporting Qtr.</th><th>Units</th><th>Fin. Progress (Rs.)</th></tr><tr><td colspan="5">Maintenance of afforestation</td></tr><tr><td>1</td><td>4th year maint. of afforestation</td><td>6</td><td>Ha</td><td>10800</td></tr><tr><td>2</td><td>5th year maint. of afforestation</td><td>30</td><td>Ha</td><td>54000</td></tr><tr><td>3</td><td>5th year maint. of Timber Plantation</td><td>80</td><td>Ha</td><td>144000</td></tr><tr><td>4</td><td>5th year maint. of Fodder plantation</td><td>3</td><td>Ha</td><td>5400</td></tr><tr><td colspan="3">Total expenditure during the reporting period upto 30.09.2018</td><td colspan="2">2,14,200/-</td></tr></table>	Sr. No.	Component	Phy. Progress during reporting Qtr.	Units	Fin. Progress (Rs.)	Maintenance of afforestation					1	4 th year maint. of afforestation	6	Ha	10800	2	5 th year maint. of afforestation	30	Ha	54000	3	5 th year maint. of Timber Plantation	80	Ha	144000	4	5 th year maint. of Fodder plantation	3	Ha	5400	Total expenditure during the reporting period upto 30.09.2018			2,14,200/-	
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ii)	<p>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).</p>	<p>753 No Main MPAF i.e. 1418 Legal Title Holders have been identified.</p> <p>As per the standard R&R policy people with left out land of less than 5 bigha (0.38 Hec.) are treated as land less. 31 nos. of people coming under this definition had submitted the affidavits which were got verified from the revenue department and grants disbursed to persons found eligible. Subsequently advertisements were issued in newspapers and also letters written to local panchayats to intimate people regarding the policy provisions. The payments to the tune of 45.23 lacs to 189 Nos. MPAF has been released so far. Some new applications have been received which are being processed for verification from revenue department.</p>																																																																																																																																					

iii)	A Monitoring Committee for RR should be constituted which must include representative of project affected person from SC/ST category and a women beneficiary.	R&R Plan has been finalised. 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	Being fulfilled. Status given separately in this report under the title 'fulfilment of commitments of public hearing' under this Report.
v)	The Biodiversity conservation and management plan as proposed in the EMP shall be followed in Toto.	Mentioned in Environment Clearance but not proposed in EMP. Description of study of flora and fauna is available in EMP. There is no significant wildlife in the area. For aquatic fauna provision of fish ladder has been made in the Barrage. As per policy of the State Govt. 15% discharge of lean season will be ensured in the river at any given time. Since majority of structures are underground hence flora is not getting affected. Hence Biodiversity Plan is not prepared. In any case inspection for poaching of wildlife species is being carried out.
vi)	All the equipments which are likely to generate high noise levels are to be fully mollified (Noise reduction measures).	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.
	 <p style="text-align: center;">DG sets with noise suppressing jacketing & installed in Sheds</p>	
vii)	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.	<p>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.</p> <p>The dumped muck is being levelled & compacted simultaneously engineering structures provided for retaining the same. Once the construction activities are completed, the muck dumping areas will be treated with plantation.</p> <p>Muck is also being utilized by other Government/Non-Government agencies and there are chances that in near future whole of the muck would get re-cycled and sites restored to their original shape.</p>

2	Part-B- General Condition	
i)	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>LPG is being provided in labour camps by the contractors and subcontractors of HPPCL to prevent tree felling for the purpose of fuel-wood. Wood is not being used as fuel for cooking food. Community/common kitchens are being run by contractors where food is cooked for staff and workers. So far, (up-to30-09-2018) 1,68,064Kgs. of LPG, 1,54,492liters of diesel has 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 observed.</p>
ii)	Fuel depot may be opened at the site to provide the fuel (Kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to labourers.	<p>As stated above LPG is being provided in labour camps by the contractors. 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.</p> <ul style="list-style-type: none"> During this reporting period 259 Nos. of workers have been checked and medicines have been disbursed by the contracting agencies to the workers. Two Nos. of ambulances have also been deployed at site. Total expenditure on this account during this reporting period comes out to be Rs.1,01,986/-only. HPPCL dispensary at Power house site has been made functional and a pharmacist deployed to check labourer and local public. <div data-bbox="874 1144 1461 1742" data-label="Image"> </div> <p>HPPCL Dispensary at Power House site, Snail</p> <ul style="list-style-type: none"> Ambulances have been provided at every work site for emergency evacuation of workers if any. Local government health centre has been strengthened to provide medical facility to project construction workers. Satellite TV dishes have been provided.

		  <p>Ambulance and dispensary Facilities at work site</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.	<p>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.</p> <p>The workers working at crushers and batching plants (who are more exposed to dust and cement) are being observed periodically for any occupational diseases. During this reporting period 259 Nos. of workers have been checked and medicines have been disbursed by the contracting agencies to the workers. Two Nos. of ambulances have also been deployed at site. Total expenditure on this account during this reporting period comes out to be Rs.1,01,986/- only.</p>
iv)	Restoration of construction area including dumping site of excavated materials should be ensured by levelling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	<p>Muck in the dumping sites is being levelled & compacted simultaneously with its disposal. Afforestation over the dump sites would be done once the muck dumping is completed.</p> <p>Muck has been allowed to be lifted for utilization by other Government/Non-Government agencies and there are chances that in near future whole of the muck would get re-cycled and sites restored to their original shape.</p>

v)	Financial provision should be made in the total budget of the project for implementation of above suggested safeguard measures.	<p>A provision of Rs 19.36 Crore has been kept for implementation of the EMP which includes the cost of implementation of these safeguards.</p> <p>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.</p> <p>So far (30-09-2018), Rs. 217.73 million have been spent against Rs. 193.583 million i.e. the total cost of implementation of EMP.</p>
vi)	A multidisciplinary committee should be constituted in consultation with the Ministry with ecologists, environmental scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	The committee has already been constituted to oversee the effective implementation of suggested safeguards measures. However, in addition to this the Project Implementation Committee constituted at project level is also looking after the various Environmental aspects.
vii)	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office Dehradun for review.	Report is 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 their inspection.	<p>HPPCL commits to provide full cooperation and data supply, as and when demanded. Officials of state pollution control board pay regular visits to the project and their suggestions/directions are complied with.</p> <p>All the information sought by regional office is being provided in time bound manner.</p>
4	The responsibility of implementation of environment safeguards rests fully with the PVPCL & Govt. HP.	Agreed and being complied with.
5	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in scope as per the EIA notification'2006 vide clause 7(ii) as there is no change in project parameters. This situation is also cleared by the MoEFCC vide their affidavit in National Green Tribunal dated 28 th October, 2015.
6	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 safeguard measures in a time bound and satisfactory manner.	Safeguard measures as suggested are being implemented & additional safeguards measures if any suggested subsequently will also be implemented.
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 MoEFCC has been intimated in this regard.

8	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.	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.
9	State Pollution Control Board/ Committee should display a copy of the clearance letter at the Regional Office, District Industry centre and Collectors office/Tehsildar's office for thirty days.	The clearance letter was displayed as stated in this condition.
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 Newspapers was made as desired.

Extension of Validity of Environment Clearance for Sawra-Kuddu (111 MW) HEP was accorded vide Director GoI, MoEF&CC letter No. J-12011/13/2006-IA-I dated 14th Dec., 2017 up to period of 3 years. (**Annexure 12**).

Compliance status of conditions of Extension of Environment Clearance is as follows:

Sr. No	Stipulations	Compliance status
(i)	H.P State Forest Department will provide utilization certificate for funds provided under CAT plan and Compensatory Afforestation Programme.	Attached as Annexure-12(i)-A for Utilization Certificate of CAT plan & Annexure-12(i)-B for Utilisation Certificate of Compensatory Afforestation Programme.
(ii)	Component -wise details on funds allocated towards EMP with cost revised to current price level to be submitted.	Attached as Annexure-12-(ii)
(iii)	Details on total muck generated from the project and total muck utilized and also total land area of muck dumping sites to be submitted.	Attached as Annexure-12-(iii)

Some photographic record of Environment Measures.



Water Sprinkling On the Project Roads



Safety sign-board at site



Workers at Emergency Assembly area of Power House site

C. Fulfilment of commitments made in Public Hearing – I & II

S. No.	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 due 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 done till November, 2017. In total there are 30 no. of water sources. As the excavation of Head Race Tunnel (HRT) was completed in the month of September, 2017 so the practice of monitoring of water resources in the project area was discontinued. No instance of drying up of any water resource 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"> • The work of Development/ Maintenance work at Hatkoti Mandir has been awarded amounting to Rs. 16.53 lacs on dated 05-03-2010. Additional funds were allocated and work has been completed at the cost of Rs 28.91 lacs. • Rs 10.00 lac deposited with HPPWD 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 lacs received from Executive Engineer Jubbal. Work has been completed. • Total Rs. 24 lacs have been released for construction of water storage tank on hill for regulating the water supply to temple Complex and for surrounding area. Work has been completed.
3	LADA should comprise local people and nomination of local people should not be on political consideration.	There is a Provision for nomination of local people in The LADA Committee headed by the Deputy Commissioner.	The body has been nominated by D.C. Shimla in which local representative are included. Works recommended by Gram Sabha are only covered under LADF.
4	Provision should be kept for construction of crematoria.	A provision of Rs. 20 lakh have been kept in CAT Plan and also this aspect can be covered under LADA funds.	Funds have been allocated. Work of construction of 06 No. crematoria at an expenditure of 14,79,491/- is completed as intimated by the DFO, Rohru.
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	Of the total people employed during the reporting period about 72% Himachalis have been deployed.

		the HPSEB. However, the major private contractors shall be bound by the provisions of minimum 70% employment as prescribed by the State Government.	<table><tr><th>Month</th><th>Himachali</th><th>Non-Himachali</th></tr><tr><td>Apr.-18</td><td>186</td><td>67</td></tr><tr><td>May-18</td><td>189</td><td>67</td></tr><tr><td>June-18</td><td>374</td><td>135</td></tr><tr><td>July -18</td><td>369</td><td>144</td></tr><tr><td>Aug.-18</td><td>366</td><td>142</td></tr><tr><td>Sept.-18</td><td>370</td><td>162</td></tr><tr><td>Total</td><td>1854</td><td>717</td></tr></table> <ul style="list-style-type: none">• Contracts:- 264 Nos. of petty contracts have been awarded to MPAF, PAF&PAA so far amounting to Rs. 894.64 Lacs.• 41 Nos. Persons from MPAF/PAF/PAA have given employment on outsourcing basis by HPPCL so far.	Month	Himachali	Non-Himachali	Apr.-18	186	67	May-18	189	67	June-18	374	135	July -18	369	144	Aug.-18	366	142	Sept.-18	370	162	Total	1854	717
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6	Copies of EIA should also be provided to the local Panchayats in project area.	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.	The same have been distributed in all the affected Panchayats.																								
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 6.25 km has been carried out So far.																								
8	The construction debris and muck produced should be properly managed in the designated dumping sites.	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. 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.	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. Muck has been allowed to be lifted for utilization by other Government/Non-Government agencies and there are chances that in near future whole of the muck would get re-cycled and sites restored to their original shape.																								
9	Social intrusion is apprehended due to migratory labour.	Provision of separate labour camps would be provided during construction phase.	Separate labour camps have been constructed near the work sites for migratory labour. Minimum distance of any camp is one Km from nearest habitation.																								

10	Migratory labour should be provided proper health and educational facilities for their children;	Local infrastructure in terms of health & education may be used and provision of its strengthening shall be made through LADA funds.	<ul style="list-style-type: none"> • PHC Sawra strengthened with the installation of X-Ray Machine purchased by CMO, Shimla for the amounting Rs 5.00 lac released by HPPCL. • The meeting of PMFMC was held on 04-06-2014. The doctors and local representatives suggested that the laboratory shall be opened at the Primary Health Centre (PHC) at Sawra. The procurement and installation of these equipments involves 3.0 lacs from PMFMC account. The committee approved the demand and procurement of equipments has been done and put to use for general public at primary health centre Sawra. • Medical camps are also being organized in the area with the R&R training-cum-awareness camps. • Infrastructure of CBSE affiliated 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. • 5 rooms have also been provided in HPPCL colony at Chauri (Snail) to run the Primary section of CBSE pattern (branch of DAV Public School). 2200 Sqm Land has been identified for school Building at Snail.
11	Resettlement & Rehabilitation Plan is not indicated in the report.	No family is getting displaced. However, people affected to some extent shall be compensated as may be determined by the competent authority.	<p>Standard R&R plan has been prepared on dated 19th January'2009 and being implemented.</p> <p>Project specific Resettlement Plan (RP) has already been finalized and the payment of due diligence is under process.</p>
12	Noise pollution from project activities should be controlled.	Regular monitoring shall be done during the construction & operation phase of project. More over most operation would underground hence noise at ground level would be minimum.	<p>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.</p> <p>Two crushers and one batching plant have been dismantled due to which the noise as well as air pollution got reduced. The remaining crushers are far away from the populated area.</p>

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 Pabbar 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	Suggestions from other departments of government should also be taken.	Other departments are also invited for the public hearing besides the issues to be discussed at State Level EIA & M Committee.	Report sent to other departments, no comments received till date.
15	Proponent should organize visit of the people from the project areas to another project which has been operational for some time.	Proponent readily agreed to the suggestion.	The project authorities organized visit of local people to Sanjay Jal Vidyut Pariyojana (Sanjay HEP) and Nathpa-Jhakri HPS to have interactions with local people of those affected Projects.
16	Construction circle should be immediately shifted to Hatkoti.	This would be done whenever infrastructure developed/available.	One construction circle has been shifted during April'2009 to Hatkoti & other to Snail (Power House Complex) during May'2009. Now all the offices of project are at Hatkoti and Snail.
17	Natural calamity and land subsidence may occur due to tunnelling;	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.	Some complaints have been received from local residents regarding development of cracks in their houses. Committee appointed for assessing the damages by Deputy Commissioner has submitted the report to Sub-Divisional Magistrate, Rohru. Compensation as intimated by administration shall be paid.
18	Horticulture may be affected due to project.	There is no established evidence that project would affect the horticultural produce except for those areas which are acquired for the project for which compensation as determined by the competent authority would be provided.	Complaints of reduction in horticulture production have been received. Requests have been sent to horticulture and agriculture department for formation of committee to look into complaints. D.C. Shimla has been requested to constitute a committee to determine the loss of production of loss of horticulture and

			agriculture. The issue was discussed in the meeting with DC, where it was found that in the last 3 years, production of apple in the area has increased and any such adverse effect seems not to have occurred. Hence matter was decided to be disposed/closed.
19	Barrage proposed for the project should also envisage bridge on its top at least for small vehicles.	This is not envisaged in the project design in view of the consideration related to the Project security;	No commitment made; hence, fulfilment not required.

**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><tr><th>S.No.</th><th>Class of land</th><th>Rate (Rs/bigha)</th></tr><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></table> <p>Till the period ending (31.12.2014) approx. 300numbers 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 looser:-753 No. 2) Total land compensation amounting to Rs 4578.34 Lacs for the land of 44-87-07 ha paid (up to 30-09-2018).</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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3	Barren	1,21,072.00													
2	Project road should be extended to the Chauri village.	This could be covered under the LADA funds as per priorities to be fixed by the committee to be constituted.	Road shall be extended to Chauri Village.												

SECOND PUBLIC CONSULTATION held on 12.03.2008 at Hatkoti, Distt. Shimla (H.P)

1	Progress of LADC (Local Area Development Committee)	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 instalment 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 request the DC Shimla to hold the	<p>Full & final payment has already been released against total contribution 8,37,79,500/- on account of LADF. Utilization certificate of LADF have been sought from D.C. Shimla which is still awaited.</p> <p>Distribution of fund for development of Panchayats under LADF made by DC Shimla (Rs. 254.12 lacs) including second instalment is as under :-</p>
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		meeting at the earliest. 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).	<table><tr><th>S. No.</th><th>Name of Panchayat</th><th>Distribution of funds (lac)</th></tr><tr><td>1</td><td>Sari</td><td>42.49</td></tr><tr><td>2</td><td>Saraswatinagar</td><td>35.05</td></tr><tr><td>3</td><td>Mandal</td><td>34.97</td></tr><tr><td>4</td><td>Ranvi</td><td>37.90</td></tr><tr><td>5</td><td>Kuddu</td><td>20.77</td></tr><tr><td>6</td><td>Thana</td><td>41.16</td></tr><tr><td>7</td><td>Jhalta</td><td>41.28</td></tr><tr><td>8</td><td>Seema</td><td>0.50</td></tr><tr><td></td><td>Total</td><td>254.12</td></tr></table> <p>The detail of distribution of rest funds is still awaited.</p>	S. No.	Name of Panchayat	Distribution of funds (lac)	1	Sari	42.49	2	Saraswatinagar	35.05	3	Mandal	34.97	4	Ranvi	37.90	5	Kuddu	20.77	6	Thana	41.16	7	Jhalta	41.28	8	Seema	0.50		Total	254.12
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2	Rehabilitation of affected people and RR Plan	R & R (Rehabilitation & Resettlement) 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) Grants: - a) The Self-employment has been given to 19 MPAF / PAF and an amount of 8.70 Lacs has been released on this account. b) Scholarships amounting to Rs 23,84,400/- released to 258 wards of main PAF. c) I.T.I:- 107 No. Students from the wards of MPAF/PAF/PAA sponsored in different I.T.I.s of H.P. Till date an Amount of Rs. 36,08,500/- has been released on account of fees and scholarships. 2) Employment given so far:- a) MPAF, PAF&PAA:-267No. c) Bonafide H.P:- 705 No. d) Outsourced (MPAF): - 41No. 3) Amount released so far Rs.9,30,000/- to 10 Nos. Community based organizations. 4) Regarding self-employment & safeguards measures are being taken by HPPCL.																														
3	Downstream flow of water from barrage should be 15% where as it has been mentioned as 10% in EIA/EMP report. Why?	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.	Now the structure has reached the stage where arrangement for releasing the flow is to be installed and the same is being installed. The provision of fish ladder has been included in the design of the diversion barrage structures. The discharge shall be monitored/ maintained during the operation phase of the project & arrangement for passing of such minimum discharge has been put in place.																														

			Fish pass has been constructed. In addition to this an environment flow pipe of dia. 600 has also been embedded in the structure. Discharge shall be regulated as per norms during operation stage.
4	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 holder exists in the affected area. Why?	License holder Fisherman prior to notification under Section IV of Land Acquisition Act, will be allowed fishing in the submergence area. Strengthening of 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 inquiry regarding the alleged licenses issued after the EIA EMP was prepared or after the section 4 notification. 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.	As Explained and Matter being monitored regularly. Fishing rights shall be transferred in the impoundment to be created due to the project. The inquiry is in progress. As soon as, any progress is noticed, the same will be incorporated in the next safeguards report due. First instalment of Rs. 3.10 million has 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. Utilization of Rs. 7.344 Lacs only (up to the year 2009-10) has been intimated by the Fisheries Department. The funds have been allocated to the execution agency by the Director-cum-Warden of Fisheries..
5	No blasting in the middle of night.	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.	As explained the compliance being done. Blasting is being done in delayed & staggered manner. The delay detonator divides total charge to be fired in a round into a number of segmental charges. Very safe and effective blast pattern has been designed which will take care of blasting related problems.
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 now no instance of land slide has occurred.
7	Dumping should be done in waste land not in irrigated land, why it is so.	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.	Dumping of muck is being done in the already identified and approved sites.

8	Irrigation of left out land in Bharot Chak, Management should reply whether the irrigation is provided to left out land what is alternative.	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.	HPPCL will continue to fulfil the commitment it has given in this regard. Since last restoration no further damage has been noticed.																								
9	According to policy of Govt. of HP 70% employment should be given to local people. Give detail how much people employed from 7 No. Panchayat of trans Pabbar area.	The policy provision is being complied with and moreover work 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.	<p>Of the total people employed during the reporting period about 72% Himachali have been deployed.</p> <table><tr><th>Month</th><th>Himachali</th><th>Non-Himachali</th></tr><tr><td>Apr.-18</td><td>186</td><td>67</td></tr><tr><td>May-18</td><td>189</td><td>67</td></tr><tr><td>June-18</td><td>374</td><td>135</td></tr><tr><td>July -18</td><td>369</td><td>144</td></tr><tr><td>Aug.-18</td><td>366</td><td>142</td></tr><tr><td>Sept.-18</td><td>370</td><td>162</td></tr><tr><td>Total</td><td>1854</td><td>717</td></tr></table> <p>So far (till 31-09-2018), a total of 264 numbers of petty contracts have been awarded to PAA/PAZ/PAFs with a total contract value of Rs 894.64 Lacs.</p> <p>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.</p>	Month	Himachali	Non-Himachali	Apr.-18	186	67	May-18	189	67	June-18	374	135	July -18	369	144	Aug.-18	366	142	Sept.-18	370	162	Total	1854	717
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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 Hatkoti to better communication with the PAF/ PAA public and redressed of grievances by concerned officers of HPPCL.																								
11	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?	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.	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)-24/2011 dated 05-10-2011. Thus, there shall be no such dispute in future.																								

12	The fund issued against CAT plan is being spent in Rohru area.	<p>First instalment 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.</p> <p>The CAT plan as the name implies is meant for the catchment 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.</p>	In view of explanation given in the hearing (at the time of second consultation) no further action on this issue is required.
13	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).	Matter will be reviewed, before initiating any action in consultation with project affected Panchayats.	<p>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.</p> <p>The meeting of PMFMC was held on 04-06-2014. The doctors and locals representatives suggested that the laboratory shall be opened at the Primary Health Center (PHC) at Sawra. The procurement and installation of these equipments involves 3.0 lacs from PMFMC account. The committee approved the demand and procurement of equipments has been done and put to use for general public at primary health centre Sawra.</p>
14	When the R & R plan will be started and house should be prepared for houseless families.	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.	<p>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 and the same is being implemented. Project specific Resettlement Plan (RP) has already been finalized and the payment of due diligence is under process.</p> <p>In all, only one (01) person became houseless. Full & final compensation of Rs. 22,62,460/- against the land and structure has already been paid.</p> <p>Houseless grant amounting to Rs. 6,68,750/- Lacs has been released on dated 03-08-2015.</p>

15	Height of barrages has been shown as 9.20 meters instead of 13.50 meters as shown in the web site. Why so contradiction?	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	The height of Barrage varies at different sections depending upon the river bed profile, however FRL remains unchanged.
16	The total Panchayat in EIA and EMP report are 12, why it is now 8 Panchayat.	Change in the scope of the project reduced the number of affected Panchayats as reflected in the EIA EMP.	These are as per actual.
17	No land looser is in the LADC committee	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.	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.
18	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.	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>As per R & R plan, the losers of land are being given Rs. 75,000/- to 2,50,000/- as resettlement grant in addition to land compensation depending upon the quantum of land left after acquisition of land.</p> <p>As per the standard R&R policy people with left out land of less than 5 bigha (0.38 Hec.) are treated as land less. 31 nos. of people coming under this definition had submitted the affidavits which were got verified from the revenue department and grants disbursed to persons found eligible. Subsequently advertisements were issued in newspapers and also letters written to local panchayats to intimate people regarding the policy provisions. The payments to the tune of 45.23 lacs to 189 Nos. MPAF has been released so far. Some new applications have been received which are being processed for verification from revenue department.</p>

COMPONENT WISE CONSTRUCTION STATUS OF THE PROJECT

Name of component :-

Head Race Tunnel

S. No.	Name of sub component	Total Length (m)	Executed Length (m)	Status of sub component on %age basis up to 30-09-2018.	Remarks
1	Face-0	173.95			Completion schedule- Sept.,2019
	Excavation		173.95	100%	
	Overt Lining		144.4	83%	
	Invert Lining		142	82%	
2	Face-1	2191.789			
	Excavation		2191.789	100%	
	Overt Lining		898	41%	
	Invert Lining		895	41%	
3	face-2	2191.789			
	Excavation		2191.789	100%	
	Overt Lining		861.38	39%	
	Invert Lining		732	33%	
4	Face-3	905.62			
	Excavation		905.62	100%	
	Overt Lining		870.223	96%	
	Invert Lining		869.623	96%	
5	Face-4	905.62			
	Excavation		905.62	100%	
	Overt Lining		900.677	99%	
	Invert Lining		884	98%	
6	Face-5	2182			
	Excavation		2182	100%	
	Overt Lining		2177	100%	
	Invert Lining		2182	100%	
7	Face-6	1936.178			
	Excavation		1936.178	100%	
	Overt Lining		1934	100%	
	Invert Lining		1921.18	99%	
8	Face-7	877.79			
	Excavation		877.79	100%	
	Overt Lining		872.8	99%	
	Invert Lining		860.8	98%	
A	Total Length	11365			
	Excavation		11364.74	100.00%	
	Overt Lining		8658.48	76.19%	
	Invert Lining		8486.603	75%	
B	Balance Length				
	Excavation		0	0.00%	
	Overt Lining		2706	23.81%	
	Invert Lining		2878	25.33%	

COMPONENT WISE CONSTRUCTION STATUS OF THE PROJECT

Name of component :- Diversion Barrage, Intake & Desanding chamber(DBID)

S. No.	Name of sub component	Estimated Quantity (Cum)		Executed Quantity upto 30-09-2018 (Cum)		Balance Quantity (Cum)		%age executed		Completion Schedule
		Excavation	Concrete	Excavation	Concrete	Excavation	Concrete	Excavation	Concrete	
1	Barrage	199634	123652	199634	123648	0	4	100	100.00	Likely date of completion is March,2019 except some balance misc. works.
2	Power Intake	19452	16554	19452	16554	0	0	100	100.00	
					Qty. exceeded due to additional work.					
3	Desanding Arrangement	331750	74593	331750	74545	0	48	100	99.94	
4	Misc. Works	0	16515	0	10814	0	5701	-	65.48	
		6028		0		6028		Nil		
	Total	556864	231314	550836	225561	0	5753	98.92	97.51	
5	HM Works	100%		94%		6%		94%		

COMPONENT WISE CONSTRUCTION STATUS OF THE PROJECT

Name of component :-

Power House complex

S. No.	Name of sub component	Status of sub component on %age basis up to 30-09-2018	Remarks
1	Surge Shaft		Only minor finishing works of power house are balance.
	Excavation	100%	
	Lining	100%	
2	Pressure Shaft		
	Excavation	100%	
	Backfill	100%	
3	Power House Cavern		
a)	Control Block-1 & service bays		
	Excavation	100%	
	Concrete	100%	
b)	Unit bays & Control block-II		
	Excavation	100%	
	Concrete	100%	
4	Transformer Hall i/c Bus Ducts		
	Excavation	100%	
	Concrete	100%	
5	TRT		
	Excavation	100%	
	Lining	100%	
6	CAT		
	Excavation	100%	
	Concrete	100%	
7	Pot Head Yard		
	Excavation	100%	
	Concrete	100%	

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No. 2516
H. P. Forest Department.

Dated Rohru, the 30-06-18

From: D. F. O. Rohru.

To: C. C. F. Shimla.

Subject:- Quarterly progress report of Sawra Kudu HEP CAT Plan for the quarter ending 30-6-2018.

Memo:

The quarterly progress report of Sawra Kudu HEP CAT Plan for the quarter ending 30-6-2018 may please be treated as nil since no targets have been allotted to this Division so far. This is for favour of information and further necessary action please.

Divisional Forest Officer,
Rohru Forest Division,
Rohru.

Enclst. No. 2517 Dated Rohru, the 30-06-18
Copy is forwarded to General Manager, Sawra Kudu HEP, HPPCL,
Hatkoti for information please.

Divisional Forest Officer,
Rohru Forest Division,
Rohru.

G.M.
AGM.
P.L.A./P.A.
CBM/R&R
IPS

NO HPPCL/Km. SK HEP - Encl/2018 - 1938 Dated 23/7/18
copy of above is forwarded to DGM (HRT)
SREHEP, HPPCL, Hatkoti for inf. & n.a. please



S2 Manager (C&M)
to G.M. SK HEP
HPPCL, Hatkoti

Smt. Manpreet
for N.A.
Noted
Manager
T.O. (Encl.)

No.
H. P. Forest Department.

Dated Rohru, the

From: D. F. O. Rohru.

To: C. C. F. Shimla.

Subject:- Quarterly progress report of Sawra Kudu HEP CAT Plan for the quarter ending 30-9-2018.

Memo:

The quarterly progress report of Sawra Kudu HEP CAT Plan for the quarter ending 30-9-2018 is enclosed herewith for favour of information and further necessary action please.

Encl:- As above

G. M.
AGM.
P & A/F&A
C&M/R&R
ABS



Divisional Forest Officer,
Rohru Forest Division,
Rohru.

Endst. No.

Dated Rohru, the

Copy along with copy of quarterly progress report of Sawra Kudu HEP CAT Plan for the quarter ending 30-9-2018 is forwarded to General Manager, Sawra Kudu HEP, HPPCL, Hatkoti for information please.

Encl:- As above



Divisional Forest Officer,
Rohru Forest Division,
Rohru.

Handwritten notes:
1. Encl. may present to DGM (HRT) for check.
2. HPPCL/KSM SKHEP-ENV/2018-3420 dt. 22/10/18
3. Copy of above is forwarded to DGM (HRT) SKHEP, HPPCL, Hatkoti for info. in a please.

Handwritten signature: J. D. J. 22/10
Sr. Manager (C&M),
O/o General Manager,
Sawra Kudu HEP,
HPPCL, Hatkoti

Quarterly progress report of Sawra Kudu CAT plan for the quarter ending 30-9-2018

Sl. No.	Name of Circle	Name of Division	Name of Range	Name of Block	Name of beat	Name of Area	Particular of work	Target Alloted		Target achieved upto pre. Quarter		Target achieved during the quarter		Progressive achievement		Remarks
								Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
on	Shimla	Rohru	Saraswati Nagar	Kudu	Kudu	UPF-Kudu	IVth year maintt.	5	9000	0	0	0	0	0	0	
			Tikkar	Tikkar	Phrog	UPF-Ghansidhar	IVth year maintt.	6	10800	0	0	6	10800	6	10800	
						Sub-Total		11	19800	0	0	6	10800	6	10800	
			Bashla	Arhal	Arhal	32 b arhal	vth year maintt.	5	9000	0	0	5	9000	5	9000	
			Bashla	Khadralla	Kewali	C. No. 29 a	vth year maintt.	10	18000	0	0	10	18000	10	18000	
			Khashadhar	Todsa	Banoti	UPF-Dhumera	vth year maintt.	5	9000	0	0	0	0	0	0	
			Khashadhar	Todsa	Todsa	UPF-Amboi	vth year maintt.	5	9000	0	0	0	0	0	0	
			Khashadhar	Khashadhar	Diswani	UPF-Lakadhar	vth year maintt.	10	18000	0	0	0	0	0	0	
			Khashadhar	Khashadhar	Dali	C. No. 78 a	vth year maintt.	10	18000	0	0	0	0	0	0	
			Rohru	Gawas	Gawas	Bhwani Thach	vth year maintt.	5	9000	0	0	5	9000	5	9000	
			Rohru	Summerkot	Summerkot	UPF-Dunsa	vth year maintt.	5	9000	0	0	0	0	0	0	
			Saraswati Nagar	Mandal	Mandal	UF-Jharashli	vth year maintt.	5	9000	0	0	0	0	0	0	
			Tikkar	Tikkar	Tikkar	UPF-Nirgi	vth year maintt.	5	9000	0	0	5	9000	5	9000	
			Tikkar	Tikkar	Sharontha	UPF-Fieldbag	vth year maintt.	5	9000	0	0	5	9000	5	9000	
						Sub-Total		70	126000	0	0	30	54000	30	54000	
			Total Maintt. Afforestation.					81	145800	0	0	36	64800	36	64800	
			Jubbals	Juubals	Kharapathar	UF-Deem	Vth year maintt.	5	9000	0	0	5	9000	5	9000	

	Jubbal	Juubal	Kharapath ar	UF-Ori	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Juubal	Kharapath ar	UF-Jachli	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Juubal	Badhal	UF-Badhal	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Juubal	Shili	3b-Giri	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Juubal	Sanabha	UF-Sanabha	Vth year maintt.	10	18000	0	0	10	18000	10	18000
	Jubbal	Juubal	Sanabha	Giri 4a	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Sheel	Shallan	C. No. 11 Kulgaon	Vth year maintt.	10	18000	0	0	10	18000	10	18000
	Jubbal	Sheel	Sheel	UF-Kayana	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Jubbal	Sheel	Mandhol	C. No. 18 Sari	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Tikkar	Tikkar	Kidwan	UF-Khali	Vth year maintt.	5	9000	0	0	5	9000	5	9000
	Rohru	summerkot	Machoti	UF-Bhoot	Vth year maintt.	10	18000	0	0	10	18000	10	18000
	Saraswati Nagar	Mandal	Kawalta	C. No. 2 Jakhi	Vth year maintt.	5	9000	0	0	5	9000	5	9000
				Sub-Total		80	144000	0	0	80	144000	80	144000
				Total Maintt. Timber plantation		80	144000	0	0	80	144000	80	144000
Fodder 'lantation	Bashla	Khadrata	Khadrata	C. No. 28b Bajashal	Vth year maintt.	10	18000	0	0	0	0	0	0
	Jubbal	Juubal	Shilli	UF-Mahina	Vth year maintt.	3	5400	0	0	3	5400	3	5400
				Sub-Total		13	23400	0	0	3	5400	3	5400
				Total maintt fodder plantation		13	23400	0	0	3	5400	3	5400
Pasture velopment	Saraswati Nagar	Kudu	Pandranoo	DPF Sainj	IV year maintt.	5	8500	0	0	0	0	0	0
				Sub-Total		5	8500	0	0	0	0	0	0
	Rohru	Gawas	Gawas	82 b-Gawas	Vth year maintt.	10	17000	0	0	0	0	0	0
	Rohru	Gawas	Gawas	UF-54 Shalgi Thach	Vth year maintt.	10	17000	0	0	0	0	0	0
				Sub-Total		20	34000	0	0	0	0	0	0
				Total maintt. pasture Development		25	42500	0	0	0	0	0	0
				G. Total all scheme maintt.		199	355700	0	0	119	214200	119	214200

oil and water conservation															
oil and water conservation			Khashadhar	Chirgaon	Jakhnoti	Jakhnoti Nalla	C/o Crate wire check dams	6	240000	0	0	0	0	0	0
			Khashadhar	Chirgaon	Jakhnoti	Sunda Nalla	C/o Crate wire check dams	12	480000	0	0	0	0	0	0
			Khashadhar	Chirgaon	Chirgaon	Andhra khad near GHS Andhra and Kastruba Ghandi Ashram	C/o Crate wire check dams	12	480000	0	0	0	0	0	0
			Rohru	Gawas	Lowerkoti	Malwari Nalla	C/o check dams	12	480000	0	0	0	0	0	0
			Rohru	Gawas	Lowerkoti	Sidhrothi Nalla	C/o check dams	12	204000	0	0	0	0	0	0
			Khashadhar	Chirgaon	Jakhnoti	Baldwada Nalla	C/o Crate wire check dams	15	600000	0	0	0	0	0	0
			Khashadhar	Chirgaon	Diudi	Kanga slip near Diudi village	C/o Crate wire check dams	15	600000	0	0	0	0	0	0
	Sub-Total							84	3084000	0	0	0	0	0	0
rgy Saving sures			Bashla	Arhal	Sharog	Mehandli	C/o Crematoria at Mehandli	1	400000	0	0	0	0	0	0
	Sub-Total							1	400000	0	0	0	0	0	0
	G: Total								3839700	0	0	119	214200	119	214200
Note:- The expenditure of Rs. 214200/-															

Note:- The expenditure of Rs. 214200/- incurred but not booked

Divisional Forest Officer,
Rohru Forest Division, Rohru

Physical & Financial Progress of Resettlement and Rehabilitation measures

- 1 **LADF:-**
In LADF, the total contribution amounting to Rs. 8,37,79,500/- has already been released for the construction Phase.
- 2 **ITI Training:-** Total 107 students have been sponsored till date (out of which 5 dropped) and Rs. 36,08,500/- released on account of fee & scholarship to ITI students upto 30-09-2018
- 3 **Training & Awareness camps:-**
 - i) School competition:- Total 22Nos. School Competitions were organized and expense of Rs.2,24,535/- incurred upto 30-09-2018.
 - ii) Awareness camps:- Total 28 Nos. of awareness camps were organized upto 30-09-2018 and expense of Rs. 11,83,388/- only.
 - iii) CBO Camps: - 53 Nos. of Camps were organized upto the end of reporting period with expenditure of Rs. 96,725/- only.
- 4 **Other benefits of the R&R schemes:-**
 - i) **Scholarship:-** Till 30.09.2018 scholarship to 258 No. students has been released amounting to Rs. 23,84,400/- only. During this reporting period Half Yearly Scholarship amounting to Rs.1,74,600/- has been released to 29 candidates selected for the Session 2018-19 .
 - ii) **Sports tournament:-** 12 Nos Sports tournaments organized up to 30-09-2018, the expenditure incurred Rs.3,62,949/-.
 - iii) **CBO Scheme:-** 9,30,000/- released to selected 10 No. of CBOs upto 30-09-2018.
 - iv) **R&R Grant:-** Total Rs.26,710,718/- R&R Grant was given to 1193 No. of MPAF's.
 - v) **Medical Fund Scheme:-** upto the end of this reporting period Rs. 20,17,649/- was released on account of disbursement of medicine, purchase of medical equipments and reimbursement of medical bills (Medical Assistance) to MPAF under this scheme.

Ministry of Environment, Forest and Climate Change
North Central Regional Office
Dehradun
DATA SHEET

1.	Project Type:	Hydro Electric Project
2.		Sawra Kuddu Hydro Electric Project(111 MW) V.P.O. Hatkoti, Tehsil Jubbal, Distt. Shimla(HP)-171206.
3.	Clearance letter (s)/ O.M No.& dates:	<u>Forest Clearance</u> 1. F.No.8-42/2005/2005-FC dated 02-06-2006. 2. F.No.8-42/2005/2005-FC dated 20-01-2010. 3. F.No.8-42/2005/2005-FC dated 10-01-2013. <u>Environment Clearance</u> 1. J-2011/13/2006-IA.I Dated 17-05-2007. 2. Dated 14-12-2017
4.	Location: a) District (s) b) State (s) c) Latitudes/longitudes	Shimla Himachal Pradesh Longitude 77.45.00 to 77.49.00 East Latitude 31.07.54 to 31.03.30 North
5.	Address for correspondence: a) Address of Concerned Project Chief Engineer (with Pin Code/ Tel No./Telex/FaxNo./ E.Mail address)	General Manager, Sawra Kuddu Hydro Electric Project(111 MW) V.P.O. Hatkoti, Tehsil Jubbal, Distt. Shimla(HP)-171206. Phone No. 01781-239205. Fax No. 01781-239208. Email ID- progress.skhep@gmail.com
6.	Salient features: a) of the project b) of the environmental management plans	As Per <u>Annexure-5(A)</u> Attached. 1. Construction of Sewage Treatment Plant 2. Solid Waste collection and disposal system 3. Sewage Disposal for labour Camp 4. Cost of substitution of fuel wood for work force 5. Muck Management and Rehabilitation of Disposal Sites 6. Mining Area Rehabilitation including maintenance for 7 years 7. Compensatory afforestation including maintenance for 7 years 8. Health Delivery System 9. Control of Air Pollution 10. Environmental Measures in Project's transport line 11. Noise Control Measures 12. Sustenance and Development of Fisheries including O&M 13. Greenbelt Development 14. Management of dust from transport activities 15. Road side Plantation 16. Cost of implementing CAT plan i/e maintenance for 7 years. 17. NPV paid to ameliorate environment 18. Impact mitigation on cultural sites 19. Cost of Environment Monitoring Programme 20. O&M cost

7.				
		Pvt. Land	Aggri. Land- 29.2073 Ha Pasture & Other-15.3969 Ha Bani Land-0.2056 Ha Total- 44.8098 Ha	
		Total	98.9523 Ha	
8.	population	Main Project affected families-753 Nos. Project affected families - 58 Nos.		
9.	Financial details: a) Project cost as originally planned and subsequent revised estimates and the year of price reference. b) Allocations made for environmental management plans with item wise and year wise break up. 			

	d) Whether (c) includes the cost of environmental management as shown in b) above. e) Actual expenditure incurred on the project so far. f) Actual expenditure incurred on the environmental management plans so far :	Yes Rs.1391332.38Lacs. Rs.2117.89Lacs.
10.	Forest land requirement :	54.2514 hectare
11.	The status of clear felling in non-forest areas	Not applicable
12.	a) Date of commencement (actual and/or planned) b) Date of completion (actual and/or planned)	10-10-2007(Actual) September-2019 (Planned)
13.	Reasons for the delay if the project is yet to start:	Not applicable, project has already been commenced.
14.	Dates of site visits a. Date of previous site visit: b. Date of present site visit:	16 & 17 Dec.,2016. Yet not Visited.

SALIENT FEATURES**LOCATION:**

State	:	Himachal Pradesh
District	:	Shimla
River	:	Pabbar
Dam site	:	Hatkoti Village
Power house site	:	Snail Village

PK Weir**RESERVOIR:**

Maximum reservoir level (MRL)	:	1422.80m
Fullreservoir level (FRL)	:	1417.95m
Minimum draw down Level (MDD)	:	1413 .70m
Gross Storage	:	113Ha-.m
Live storage	:	53Ha-m
Dead storage	:	60Ha –m

Diversion Barrage

Type	:	Barrage
Max. Height	:	19.50 m
Top Elevation	:	1424.00m

SPILLWAY

Type	:	Gated &PK Weir
Design Flood :6880cumecs		
Crest Elevation	:	1404.50m
Energy Dissipater Gate	:	Stilling Basin +stepped spillway 5Nos (8.20mx6.30m each)
PK weir	:	110.40m
Water Way Width	:	162.9m(52.50m under sluices+110.4m) PK weir.

POWER INTAKE STRUCTURE

Design Discharge:	:	66.87 Cumecs
Type	:	Side intake
Crest Elevation	:	1410.70 m
Over all crest length	:	46.90m
Gate sill level	:	1406.50m

DESANDING ARRANGEMENT

i)	Feeder system	:	Three (Box Type) feede conduits 3x3m each .
(II)	Main Chambers:-		
	Type	:	Modified hopper
	Nos	:	Three
	Size of each chamber	:	94X17.60) x11.60 (depth above hopper Level)
	Limiting Particle Size	:	0.25 mm
(iii)	Flushing System	:	Three 1.30 dia .each flushing pipes laid in reverse slope

HRT

Length	:	11365 m
Size	:	Dia.5m,D-Shaped

SURGE SAFT

Dia.(Finished)	:	14.00m
Depth -	:	76.640m
Orifice Dia-	:	2.10m

POWER HOUSE

Installed Capacity	:	111 MW
Unit Size & number	:	37 MW, 3 units
Type of Machine	:	Francis (Vertical Axis)
Gross Head	:	205.36m
Net Head	:	184.50m
Main Access Tunnel	:	Dia-7.50m,D-Shaped, 239.00m Long
Machine Hall	:	58m x 14m x 39.20m
Erection/transport Bay	:	18m x 14m x 20.00m, Underground
Control Bay	:	14m x 14m x 20m, Underground
Pot Head Yard	:	45m x 25m
Cable Tunnel	:	Dia. 5.50m, D-Shaped, 277m Long
Pressure shaft	:	Main Dia. 4.00m, 304.732m Long Branch dia. 3.00m, 16.025m Long Branch Dia. 2.30m, 93.238m long
Tail Race Tunnel	:	Dia. 5.00m, D-Shaped, 384m Long
Transformer hall caver	:	73m x 14m x 22.5m

TAIL RACE SURGE TANK

Dia.	:	7m
Type	:	Restricted Orifice Type
Dia. of Orifice	:	2.70m

Benefit analysis (to be enclosed)

The calculation of the economic analysis are based on net present value (NPV). The principal is to consider that the value of money change with time due to the interest rate. This means, a sum of money at 10% interest with 100 INR today as the same value as 110 INR. When using all income and expenditure during a certain period are re-calculated to discounted to a certain time. All these discounted amounts are added up and the balance become the NPV. The project is considered profitable if the NPV is positive at the given interest rate.

Internal rate of return (IRR) is the interest rate that gives a NPV equal to zero. Benefit/cost ratio is defined as NPV of total income divided with NPV of total costs.

Cost of energy is defined as the required average price per Kwh. Where the net present value balances the net present value of income at a given discount rate (BR).

The following criteria have been used in the economic calculation

- i) A real discount rate of 9% is excluded.
- ii) A price level of December, 1995 and no extra cost for interest for interest during construction will be included.

Current value of the plant or major equipment has been considered in the calculation.

Calculation of basis condition:-

The cost of energy used are for base power summer and winter 1.25 INR/Kwh and for peak power summer and winter 2.58 INR/Kwh. The total project cost are calculated 557.19 crore (excluding Transmission cost) in the price level of December, 1995. A total capacity of 800 MW will require capital investment of Rs.0.39 lacs/Kw. The annual cost of operation and maintenance are calculated to be Rs.557 lacs

The net present value of income of generation and cost and of the yearly (income-total cost) generate are shown at different discount rates - the cost of energy yields an average energy cost that balances the cost during the operating life of the plants

		DISCOUNT S		
		7%	9%	11%
NPV	minimum total cost + 290.64		+120.67	21.86
NPV	Cost of energy INR/Kwh	0.96	1.20	1.47

The internal rate of return is calculated to 12.2% and the benefit /cost rate to be 1.37.

Rate of energy for base power is 1.25 and for peak power 2.5 INR/Kwh. yields a positive NPV on discount rate upto 12.2% equal to the internal rate of return - The calculation so the cost for energy to be 1.20 INR/Kwh and benefit /cost rate of 1.37 at 9% discount rates.

The cost of energy in this case means that using an average rate of energy of 1.20 INR/Kwh balances the total cost during the operating life of the project using a discount rate

Sugandh



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Himachal State Pollution Control Board, Parwanoo

Sector-4

Parwanoo, Distt. Solan

Parwanoo-173220

Tele:01792-232540

Sample ID:49052 - Analysis Completion:09/05/2018

Power generation plant [except Wind and Solar
renewable power plants of all capacities and Mini Hydel
power plant of capacity <25MW] / LAB Inward : 13584

TEST REPORT

Test Report No. : 13584

Date: 09/05/2018

1. Name of the Customer : Sawra Kuddu H.E.P. (111 Mw) - 11241
2. Address : -,H.P.Power Corporation Ltd.,Sawra kuddu Const. Circle
Hatkoti-171206, Taluka : Rohru, District : Shimla, GIDC : Not in any SIDC
3. Nature of Sample : REP-Representative, (Insp Type : OTH-Others/Higher Authority)
4. Sample Collected By : Abhay Gupta,JEE
5. Quantity of Sample Received :
6. Code No. of the Sample : 49052
7. Date & Time of Collection & Inwarding : 21/04/2018 , (0900 to 0900) & 23/04/2018
8. Date of Start & Completion of Analysis : 24/04/2018 & 09/05/2018
9. Sampling Point : FINAL OUTLET OF STP ~`
10. Flow Details (Remarks) :
11. Mode of Disposal :
12. Ultimate Receiving Body : river
13. Temperature on Collection : & pH Range on pH Strip :
14. Carboys Nos for : 456 & Color & Appearance :
15. Water Consumption & W.W.G (KLPD) : Ind :0.000 , Dom :9.000 & Ind :0.000 , Dom :7.200

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Suspended Solids	-	-	-	84.0 mg/l
2	Biochemical Oxygen Demand (BOD)	-	-	-	28.0 mg/l
3	COD	-	-	-	180.0 mg/l
4	Oil and Grease	-	-	-	1.12 mg/l
5	pH	-	-	-	7.56

Laboratory Remarks : All parameters are within the prescribed Standard limits By:94-pcb_94

Dt.: 09/05/2018

Dr. T.B Singh,PSO

Field Observation : sample from the fol of stp was taken

Note :

1. * - These parameters are covered under the scope of NABL.
2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing.
5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
6. Total liability of our laboratory is limited to the invoiced amount. Any dispute arising out of this report is subject to Himachal Pradesh Jurisdiction only.
7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents

power generation plant (except Wind and Solar)
renewable power plants of all capacities and Mini Hydro
power plant of capacity <25MW / LAS (except 250k)

TEST REPORT

DATE

DATE

COMMITTEE

Savera Kudu H.E.P. (H.M.S.) - 11241

Savera Kudu H.E.P. Corporation Ltd. Savera Audit Committee

Hudud-171206 / Taluka: Rohra, District: Simla, G.D.P. Not in any RDC

R.E.P. Representative, (Type: P.N.B. Party Sample)

Savera Kudu H.E.P.

S-50117

13/08/2018, 0900 to 1000 & 01/09/2018

11/09/2018 & 12/09/2018

500 m N/A of barometer

1

1

1 & pH Range in pH Scale

1 D1 & Color & Appearance

1 Int: 0.000, Dms: 0.000 & Int: 0.000, Dms: 0.000

Parameter	Unit	Test Method	Range of Testing	Result
1. Total Dissolved Solids (TDS)	mg/L			12.1 mg/L
2. Total Hardness (TH)	mg/L			12.1 mg/L
3. Total Solids (TS)	mg/L			12.1 mg/L
4. Conductivity	µS/cm			12.1 µS/cm
5. pH	pH			12.1 pH
6. Free Chlorine	mg/L			12.1 mg/L
7. Total Chlorine	mg/L			12.1 mg/L
8. Dissolved Oxygen (DO) (mg/L)	mg/L			12.1 mg/L
9. DO (%)	%			12.1 %
10. DO (mg/L)	mg/L			12.1 mg/L
11. DO (%)	%			12.1 %
12. DO (mg/L)	mg/L			12.1 mg/L
13. DO (%)	%			12.1 %
14. DO (mg/L)	mg/L			12.1 mg/L
15. DO (%)	%			12.1 %
16. DO (mg/L)	mg/L			12.1 mg/L
17. DO (%)	%			12.1 %
18. DO (mg/L)	mg/L			12.1 mg/L
19. DO (%)	%			12.1 %
20. DO (mg/L)	mg/L			12.1 mg/L
21. DO (%)	%			12.1 %
22. DO (mg/L)	mg/L			12.1 mg/L
23. DO (%)	%			12.1 %

South District - Arakkulam - Kottayam - Kollam

Power generation plant (except Wind and Solar)
 renewable power plants of an capacities and Mini hydel
 power plant of capacity <25MW / LAE (ward) 2018

TEST REPORT

Date: 05/07/2018

Year: 2018
 Date: 05/07/2018

Name of Sample

Sample Collected By

Quantity of Sample Received

Lot No. of the Sample

Date & Time of Collection & Forwarding

Date of Start & Completion of Analysis

Sampling Point

Flow Details (Remarks)

Mode of Disposal

Climate Receiving Body

Temperature on Collection

Factory Name

Water Consumption & W.W.G. (KLPD)

1. Sewer Kuthi KLPD (UUMW) - 11241
2. KLP Power Corporation Ltd. Sewer Kuthi Canal Circle
 Harkod-111206, Taluka - Rithem, District - Kollam, CLDC. Not in any NDC
3. KLP Representative, (Corp Type: PAV-Party Sample)
4. Address: Gopurath
5. 50118
6. 20/08/2018, 10:00 to 11:00 & 11:00 2018
7. 14/09/2018 & 11/09/2018
8. At discharge Structure -
9. 1
10. 1
11. River
12. A - pH Range on pH Strip
13. D & Color & Appearance
14. Inlet: 10000, Flow: 9,000 & Inlet: 10000, Dam: 1.250

Sl. No.	Parameter	Unit	Test Method	Range AA Testing	Result
1	Physical Characteristics				400-450
2	Color (Pt-Co Unit)				100-150
3	Temperature (°C)				25-30
4	pH				7.0-7.5
5	Dissolved Oxygen				2.0-2.5
6	DO Saturation				100-110
7	Electrical Conductivity				100-150
8	Total Solids (TSS)				100-150
9	Total Suspended Solids (TSS)				100-150
10	Total Dissolved Solids (TDS)				100-150
11	Calcium				100-150
12	Magnesium				100-150
13	Total Hardness				100-150
14	Chloride				100-150
15	Sulfate				100-150
16	Total Hardness (Total)				100-150
17	Hardness (Total)				100-150
18	Hardness (Total)				100-150
19	Hardness (Total)				100-150
20	Hardness (Total)				100-150
21	Hardness (Total)				100-150
22	Hardness (Total)				100-150

ANALYSIS REPORT FOR WATER WASTE WATER SAMPLE

Headed from: Pollution Control Board, Nilgudi
JICA Compound, Phase II
New Nilgudi, 605111 Nilgudi
Tamil Nadu
Phone: 077281
Fax: 0772810000

Project: generation of water (waste water) and solar
renewable power plants of all capacities and Mini Hydro
power plant of capacity <10000 T. LAB toward: 2020

TEST REPORT

Date: 20/06/2018

1. Report No.: 2018

2. Name of the Customer:
3. Address:

4. Source: Kundu H.E.P. (111 Mw) - 34241
- J.P. Power Corporation Ltd. Kundu, Coimbatore
District-17/206, Tuluva - Hohen, District- 50000, KDK - Post to any NDC
H.E.P. Representative, (Info) Type: 2 AH-2000 Sample
Address: Kundu, JEE

5. Name of Sample
6. Sample Collected By
7. Quantity of Sample Received
8. Code No. of the Sample
9. Date & Time of Collection & Forwarding
10. Name of Staff & Completion of Analysis
11. Sampling Point
12. Flow Details (Remarks)
13. Mode of Disposal
14. Ultimate Disposing Body
15. Temperature on Collection
16. Carriage Time for
17. Water Consumption & W.W.G (NT, PD)

1. Sample
2. 10/06/2018, 09:00 to 09:05 & 10:00-2018
3. 09:05-2018 & 12:00-2018
4. Dr. Bhatnagar
5.
6.
7. 2018
8. & pH Range on pH Strip:
9. DS & Color & Appearance:
10. Total: 0.000, Diss: 0.000 & Sol: 0.000, Total: 0.000

Sr.	Parameter	Unit	Test Method	Range of Tasting	Remark
1	Color (Platinum)				0.000
2	Color (Pencil)				0.000
3	Acidity (pH)				0.000
4	Alkalinity				0.000
5	Hardness				0.000
6	Calcium				0.000
7	Magnesium				0.000
8	Residual Chlorine (mg/L)				0.000
9	Dissolved				0.000
10	Calcium				0.000
11	Chloride				0.000
12	SO ₄				0.000
13	Hardness				0.000
14	Hardness (Type)				0.000
15	DO				0.000
16	DO				0.000
17	DO				0.000
18	DO				0.000
19	DO				0.000
20	DO				0.000
21	DO				0.000
22	DO				0.000
23	DO				0.000
24	DO				0.000
25	DO				0.000
26	DO				0.000
27	DO				0.000
28	DO				0.000
29	DO				0.000
30	DO				0.000
31	DO				0.000
32	DO				0.000
33	DO				0.000
34	DO				0.000
35	DO				0.000
36	DO				0.000
37	DO				0.000
38	DO				0.000
39	DO				0.000
40	DO				0.000
41	DO				0.000
42	DO				0.000
43	DO				0.000
44	DO				0.000
45	DO				0.000
46	DO				0.000
47	DO				0.000
48	DO				0.000
49	DO				0.000
50	DO				0.000
51	DO				0.000
52	DO				0.000
53	DO				0.000
54	DO				0.000
55	DO				0.000
56	DO				0.000
57	DO				0.000
58	DO				0.000
59	DO				0.000
60	DO				0.000
61	DO				0.000
62	DO				0.000
63	DO				0.000
64	DO				0.000
65	DO				0.000
66	DO				0.000
67	DO				0.000
68	DO				0.000
69	DO				0.000
70	DO				0.000
71	DO				0.000
72	DO				0.000
73	DO				0.000
74	DO				0.000
75	DO				0.000
76	DO				0.000
77	DO				0.000
78	DO				0.000
79	DO				0.000
80	DO				0.000
81	DO				0.000
82	DO				0.000
83	DO				0.000
84	DO				0.000
85	DO				0.000
86	DO				0.000
87	DO				0.000
88	DO				0.000
89	DO				0.000
90	DO				0.000
91	DO				0.000
92	DO				0.000
93	DO				0.000
94	DO				0.000
95	DO				0.000
96	DO				0.000
97	DO				0.000
98	DO				0.000
99	DO				0.000
100	DO				0.000

Power generation plant (except Windmill) / Solar
 renewable power plants of all capacities and Mini Hydro
 power plant of capacity <25MW / LAD Inward : 2011

TEST REPORT

Report No. : 201

Date: 12/05/2018

Name of the Customer
 Address

1. Sarda Kumbh B.E.P. (111 Mw) - 11240
 2. B.P. Power Corporation Ltd. Sarda Kumbh Const. Circle,
 Harkodi-171296, Taluka: Bokera, District: Shrothi, GIDC: No. 00000000
 3. B.P. Power Corporation, (Imp. Type - PAF - Party Sample)
 4. Ashay Gupta, B.E.

5. Name of Sample
 6. Sample Collected By
 7. Quantity of Sample Received
 8. Lab No. of the Sample
 9. Date & Time of Collection & Forwarding
 10. Date of Start & Completion of Analysis
 11. Sampling Point
 12. Flow Details (Remarks)
 13. Mode of Disposal
 14. Ultimate Receiving Body
 15. Temperature on Collection
 16. Carboys No. for
 17. Water Consumption & W.W.T (KLPD)

1. 50121
 2. 30/08/2018 / 10:00 to 09:00 & 01/09/2018
 3. 04/09/2018 & 12/09/2018
 4. The Power House - Sarda Kumbh
 5. 1. 1000
 6. 1. 1000
 7. 1. 1000
 8. 1. 1000
 9. 1. 1000
 10. 1. 1000
 11. 1. 1000
 12. 1. 1000
 13. 1. 1000
 14. 1. 1000
 15. 1. 1000
 16. 1. 1000
 17. 1. 1000

Sr.	Parameter	Unit	Test Method	Range of Testing	Result
1	Total Solids (TSS)	mg/l		0-1000	12.5 mg/l
2	Total Hardness	mg/l		0-1000	14.2 mg/l
3	Calcium Hardness	mg/l		0-1000	15.1 mg/l
4	Magnesium	mg/l		0-1000	15.00 ± 4
5	Chloride	mg/l		0-1000	12.5 mg/l
6	Sulfate	mg/l		0-1000	20 mg/l
7	Ammoniacal Nitrogen	mg/l		0-100	100
8	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
9	pH			0-14	0.00 pH
10	Calcium	mg/l		0-1000	14.2 mg/l
11	Chloride	mg/l		0-1000	15.1 mg/l
12	Sulfate	mg/l		0-1000	15.00 mg/l
13	Ammoniacal Nitrogen	mg/l		0-100	12.5 mg/l
14	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
15	pH			0-14	0.00 pH
16	Calcium	mg/l		0-1000	14.2 mg/l
17	Chloride	mg/l		0-1000	15.1 mg/l
18	Sulfate	mg/l		0-1000	15.00 mg/l
19	Ammoniacal Nitrogen	mg/l		0-100	100
20	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
21	pH			0-14	0.00 pH
22	Calcium	mg/l		0-1000	14.2 mg/l
23	Chloride	mg/l		0-1000	15.1 mg/l
24	Sulfate	mg/l		0-1000	15.00 mg/l
25	Ammoniacal Nitrogen	mg/l		0-100	100
26	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
27	pH			0-14	0.00 pH
28	Calcium	mg/l		0-1000	14.2 mg/l
29	Chloride	mg/l		0-1000	15.1 mg/l
30	Sulfate	mg/l		0-1000	15.00 mg/l
31	Ammoniacal Nitrogen	mg/l		0-100	100
32	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
33	pH			0-14	0.00 pH
34	Calcium	mg/l		0-1000	14.2 mg/l
35	Chloride	mg/l		0-1000	15.1 mg/l
36	Sulfate	mg/l		0-1000	15.00 mg/l
37	Ammoniacal Nitrogen	mg/l		0-100	100
38	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
39	pH			0-14	0.00 pH
40	Calcium	mg/l		0-1000	14.2 mg/l
41	Chloride	mg/l		0-1000	15.1 mg/l
42	Sulfate	mg/l		0-1000	15.00 mg/l
43	Ammoniacal Nitrogen	mg/l		0-100	100
44	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
45	pH			0-14	0.00 pH
46	Calcium	mg/l		0-1000	14.2 mg/l
47	Chloride	mg/l		0-1000	15.1 mg/l
48	Sulfate	mg/l		0-1000	15.00 mg/l
49	Ammoniacal Nitrogen	mg/l		0-100	100
50	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
51	pH			0-14	0.00 pH
52	Calcium	mg/l		0-1000	14.2 mg/l
53	Chloride	mg/l		0-1000	15.1 mg/l
54	Sulfate	mg/l		0-1000	15.00 mg/l
55	Ammoniacal Nitrogen	mg/l		0-100	100
56	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
57	pH			0-14	0.00 pH
58	Calcium	mg/l		0-1000	14.2 mg/l
59	Chloride	mg/l		0-1000	15.1 mg/l
60	Sulfate	mg/l		0-1000	15.00 mg/l
61	Ammoniacal Nitrogen	mg/l		0-100	100
62	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
63	pH			0-14	0.00 pH
64	Calcium	mg/l		0-1000	14.2 mg/l
65	Chloride	mg/l		0-1000	15.1 mg/l
66	Sulfate	mg/l		0-1000	15.00 mg/l
67	Ammoniacal Nitrogen	mg/l		0-100	100
68	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
69	pH			0-14	0.00 pH
70	Calcium	mg/l		0-1000	14.2 mg/l
71	Chloride	mg/l		0-1000	15.1 mg/l
72	Sulfate	mg/l		0-1000	15.00 mg/l
73	Ammoniacal Nitrogen	mg/l		0-100	100
74	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
75	pH			0-14	0.00 pH
76	Calcium	mg/l		0-1000	14.2 mg/l
77	Chloride	mg/l		0-1000	15.1 mg/l
78	Sulfate	mg/l		0-1000	15.00 mg/l
79	Ammoniacal Nitrogen	mg/l		0-100	100
80	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
81	pH			0-14	0.00 pH
82	Calcium	mg/l		0-1000	14.2 mg/l
83	Chloride	mg/l		0-1000	15.1 mg/l
84	Sulfate	mg/l		0-1000	15.00 mg/l
85	Ammoniacal Nitrogen	mg/l		0-100	100
86	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
87	pH			0-14	0.00 pH
88	Calcium	mg/l		0-1000	14.2 mg/l
89	Chloride	mg/l		0-1000	15.1 mg/l
90	Sulfate	mg/l		0-1000	15.00 mg/l
91	Ammoniacal Nitrogen	mg/l		0-100	100
92	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
93	pH			0-14	0.00 pH
94	Calcium	mg/l		0-1000	14.2 mg/l
95	Chloride	mg/l		0-1000	15.1 mg/l
96	Sulfate	mg/l		0-1000	15.00 mg/l
97	Ammoniacal Nitrogen	mg/l		0-100	100
98	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
99	pH			0-14	0.00 pH
100	Calcium	mg/l		0-1000	14.2 mg/l
101	Chloride	mg/l		0-1000	15.1 mg/l
102	Sulfate	mg/l		0-1000	15.00 mg/l
103	Ammoniacal Nitrogen	mg/l		0-100	100
104	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
105	pH			0-14	0.00 pH
106	Calcium	mg/l		0-1000	14.2 mg/l
107	Chloride	mg/l		0-1000	15.1 mg/l
108	Sulfate	mg/l		0-1000	15.00 mg/l
109	Ammoniacal Nitrogen	mg/l		0-100	100
110	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
111	pH			0-14	0.00 pH
112	Calcium	mg/l		0-1000	14.2 mg/l
113	Chloride	mg/l		0-1000	15.1 mg/l
114	Sulfate	mg/l		0-1000	15.00 mg/l
115	Ammoniacal Nitrogen	mg/l		0-100	100
116	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
117	pH			0-14	0.00 pH
118	Calcium	mg/l		0-1000	14.2 mg/l
119	Chloride	mg/l		0-1000	15.1 mg/l
120	Sulfate	mg/l		0-1000	15.00 mg/l
121	Ammoniacal Nitrogen	mg/l		0-100	100
122	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
123	pH			0-14	0.00 pH
124	Calcium	mg/l		0-1000	14.2 mg/l
125	Chloride	mg/l		0-1000	15.1 mg/l
126	Sulfate	mg/l		0-1000	15.00 mg/l
127	Ammoniacal Nitrogen	mg/l		0-100	100
128	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
129	pH			0-14	0.00 pH
130	Calcium	mg/l		0-1000	14.2 mg/l
131	Chloride	mg/l		0-1000	15.1 mg/l
132	Sulfate	mg/l		0-1000	15.00 mg/l
133	Ammoniacal Nitrogen	mg/l		0-100	100
134	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
135	pH			0-14	0.00 pH
136	Calcium	mg/l		0-1000	14.2 mg/l
137	Chloride	mg/l		0-1000	15.1 mg/l
138	Sulfate	mg/l		0-1000	15.00 mg/l
139	Ammoniacal Nitrogen	mg/l		0-100	100
140	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
141	pH			0-14	0.00 pH
142	Calcium	mg/l		0-1000	14.2 mg/l
143	Chloride	mg/l		0-1000	15.1 mg/l
144	Sulfate	mg/l		0-1000	15.00 mg/l
145	Ammoniacal Nitrogen	mg/l		0-100	100
146	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
147	pH			0-14	0.00 pH
148	Calcium	mg/l		0-1000	14.2 mg/l
149	Chloride	mg/l		0-1000	15.1 mg/l
150	Sulfate	mg/l		0-1000	15.00 mg/l
151	Ammoniacal Nitrogen	mg/l		0-100	100
152	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
153	pH			0-14	0.00 pH
154	Calcium	mg/l		0-1000	14.2 mg/l
155	Chloride	mg/l		0-1000	15.1 mg/l
156	Sulfate	mg/l		0-1000	15.00 mg/l
157	Ammoniacal Nitrogen	mg/l		0-100	100
158	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
159	pH			0-14	0.00 pH
160	Calcium	mg/l		0-1000	14.2 mg/l
161	Chloride	mg/l		0-1000	15.1 mg/l
162	Sulfate	mg/l		0-1000	15.00 mg/l
163	Ammoniacal Nitrogen	mg/l		0-100	100
164	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
165	pH			0-14	0.00 pH
166	Calcium	mg/l		0-1000	14.2 mg/l
167	Chloride	mg/l		0-1000	15.1 mg/l
168	Sulfate	mg/l		0-1000	15.00 mg/l
169	Ammoniacal Nitrogen	mg/l		0-100	100
170	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
171	pH			0-14	0.00 pH
172	Calcium	mg/l		0-1000	14.2 mg/l
173	Chloride	mg/l		0-1000	15.1 mg/l
174	Sulfate	mg/l		0-1000	15.00 mg/l
175	Ammoniacal Nitrogen	mg/l		0-100	100
176	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
177	pH			0-14	0.00 pH
178	Calcium	mg/l		0-1000	14.2 mg/l
179	Chloride	mg/l		0-1000	15.1 mg/l
180	Sulfate	mg/l		0-1000	15.00 mg/l
181	Ammoniacal Nitrogen	mg/l		0-100	100
182	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
183	pH			0-14	0.00 pH
184	Calcium	mg/l		0-1000	14.2 mg/l
185	Chloride	mg/l		0-1000	15.1 mg/l
186	Sulfate	mg/l		0-1000	15.00 mg/l
187	Ammoniacal Nitrogen	mg/l		0-100	100
188	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
189	pH			0-14	0.00 pH
190	Calcium	mg/l		0-1000	14.2 mg/l
191	Chloride	mg/l		0-1000	15.1 mg/l
192	Sulfate	mg/l		0-1000	15.00 mg/l
193	Ammoniacal Nitrogen	mg/l		0-100	100
194	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm
195	pH			0-14	0.00 pH
196	Calcium	mg/l		0-1000	14.2 mg/l
197	Chloride	mg/l		0-1000	15.1 mg/l
198	Sulfate	mg/l		0-1000	15.00 mg/l
199	Ammoniacal Nitrogen	mg/l		0-100	100
200	Electrical Conductivity (EC) (25°C)	µS/cm		0-1000	1.0 µS/cm

ANALYSIS APPROVAL WATER / WASTE WATER SAMPLE

===== ID: E1126 - Xxxxxxxxxxxxxxxxxxxxxx =====

Power generation plant (except Wind and Solar)
renewable power plants of all capacities and Mini Hydel
power plant of capacity <25MW. Lab Invert: 2002

TEST REPORT

Himachal Pradesh Pollution Control Board, Shimla
Plot No. 10, Shimla
New Shimla, Dist. Shimla
Himachal Pradesh
Phone: 0177-2610000
Fax: 0177-2610000

Report No.: 2022

Date: 12/09/2022

Name of the Customer:

1. Sarda Kunda H.E.P. (H) Mw-1 (1124)

2. H.P. Power Corporation Ltd., Sarda Kunda Canal Circle

Hatkhola-17206, Tehsil - Rajahmundry District - Shimla G.D.C. - Noida - 201301

3. HEP Representative (Comp Type - PAK Party Sample)

4. Abhay Gupta, JEE

5.

6. 50120

7. From 2018, (1000 to 1000) & 12/09/2022

8. 12/09/2022 & 12/09/2022

9. DSA Power house of Sarda Kunda -

10.

11.

12. 0/00

13. pH Range: 6.5 to 8.5

14. Color & Appearance

15. TSS: 0.000 - 0.000 & TSS: 0.000 - 0.000

1. Name of Sample

2. Sample Collected By

3. Quantity of Sample Received

4. Code No. of the Sample

5. Date & Time of Collection & Inverting

6. Date of Start & Completion of Analysis

7. Sampling Point

8. Flow Details (Remarks)

9. Mode of Disposal

10. Volume Receiving Body

11. Temperature at Collection

12. Carriage Note for

13. Water Consumption & W.W.G (KLPD)

Sr.	Parameter	Unit	Test Method	Range of Testing	Result
1	Total Chlorine	mg/l			12.0 mg/l
2	Total Phosphate	mg/l			0.0 mg/l
3	Supernatant Solids	mg/l			0.0 mg/l
4	Chlorophyll	mg/l			0.0 mg/l
5	Chlorophyll	mg/l			0.0 mg/l
6	Alkalinity	mg/l			0.0 mg/l
7	Ammonia Nitrogen	mg/l			0.0 mg/l
8	Ammonia Nitrogen (Total)	mg/l			0.0 mg/l
9	Ammonia Nitrogen (Total)	mg/l			0.0 mg/l
10	Ammonia	mg/l			0.0 mg/l
11	Chlorophyll	mg/l			0.0 mg/l
12	Chlorophyll	mg/l			0.0 mg/l
13	Chlorophyll	mg/l			0.0 mg/l
14	Chlorophyll (Total)	mg/l			0.0 mg/l
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99	Chlorophyll	mg/l			0.0 mg/l
100	Chlorophyll	mg/l			0.0 mg/l

Detail of No. of Labourers medically checked up by different Contractors, expenditure incurred on medicines and other medical facilities provided during the reporting period.

S. No.	Year/ period	No. of Labourers medically checked up by M/s HCC Ltd. (Package-HRT)	Expenditure incurred on providing medicine (in Rs.)	No. of Labourers medically checked up by M/s Patel Engg. Ltd. (Package-DBID)	Expenditure incurred on providing medicine (in Rs.)	No. of Labourers medically checked up by M/s Patel Engg. Ltd. (Package-P/House)	Expenditure incurred on providing medicine (in Rs.)	Total No. of Workers Checked	Total Expenditure incurred on providing medicines (in Rs.)	Remarks
1	Apr-18	38	9,747.00	3	2,268.00	0	0	41	12,015.00	
2	May-18	38	9,748.00	3	2,269.00	0	0	41	12,017.00	
3	Jun-18	39	10,261.00	4	3,026.00	0	0	43	13,287.00	
4	Jul-18	41	8,116.00	3	2,268.00	0	0	44	10,384.00	
5	Aug-18	41	8,117.00	3	2,269.00	0	0	44	10,386.00	
6	Sep-18	42	9,314.00	4	3,026.00	0	0	46	12,340.00	
	Total	239	55,303.00	20	15,126.00	0	0	259	70,429.00	

<u>Allocation of funds for different works of Environment Management Plan along with utilization of funds</u>				
S. No.	Description of Items	Allocation of funds (In Lacs)	Utilization of funds Upto Sept.2018 (In lacs)	Remarks
1	Construction of Sewage Treatment Plant	24.00	58.60	
2	Solid Waste collection and disposal system	23.40	47.12	
3	Sewage Disposal for labour Camp	15.00	60.73	
4	Cost of substitution of fuel wood for work force	15.80	145.11	
5	Muck Management and Rehabilitation of Disposal Sites	337.40	381.61	
6	Mining Area Rehabilitation including maintenance for 7 years	40.30	0.00	
7	Compensatory afforestation including maintenance for 7 years	42.65	73.00	
8	Health Delivery System	12.00	72.13	
9	Control of Air Pollution	15.00	23.62	
10	Environmental Measures in Project's transport line	10.00	9.78	
11	Noise Control Measures	2.00	5.33	
12	Sustenance and Development of Fisheries including O&M	130.00	31.00	
13	Greenbelt Development	13.00	6.06	
14	Management of dust from transport activities	20.00	81.20	
15	Road side Plantation	20.00	12.56	
16	Cost of implementing CAT plan i/e maintenance for 7 years.	731.08	662.00	
17	NPV paid to ameliorate environment	367.15	374.42	
18	impact mitigation on cultural sites	3.00	28.91	
19	Cost of Environment Monitoring Programme	71.82	99.94	
20	O&M cost	42.23	4.23	
	Total	1935.83	2177.35	

Detail of No. of Labour engaged by the different Contractors, quantity of free fuel supplied and expenditure incurred during the reporting period

S. No.	Year/ period	No. of Labour engaged contract wise			Quantum of fuel supplied or subsidy provided						Financial Expenditure incurred (in Rs.)			Total	Remarks
		HRT	DBID	Power House	HRT		DBID		Power House		HRT	DBID	Power House		
					Diesel For Burner (Ltrs.)	LPG (Cylinder)	Diesel For Burner (Ltrs.)	LPG (Cylinder)	Diesel For Burner (Ltrs.)	LPG (Cylinder)					
1	Apr-18	283	25	0	666	29	300	9	0	0	85640	32201	0	117841	
2	May-18	294	25	0	615	28	300	9	0	0	80220	32202	0	112422	
3	Jun-18	295	20	0	686	27	298	10	0	0	84366	33419	0	117785	
4	Jul-18	306	16	0	465	32	219	10	0	0	78006	26948	0	104954	
5	Aug-18	312	16	0	512	31	219	9	0	0	84308	25674	0	109982	
6	Sep-18	332	16	0	478	36	220	9	0	0	94911	25738	0	120649	
									Grand Total		507451	176182	0	683633	

PABBAR VALLEY POWER CORPORATION LIMITED

No PVPCL/SE/SKCC-DB-SK C.A.T./2007-1661-62

Dated:- 19-7-07

To

✓ The Public Relation Officer,
HPSEB, Shimla-4.

Subject:- Publication of Advertisement

Please find enclosed herewith the advertisement (Environment Clearance) to be published in the daily newspaper in English (The Tribune Chandigarh edition) & in Hindi (Amar Ujala Chandigarh edition) in one insertion in respect of Sawra-Kuddu HEP on or before 21-07-2007

The bill in duplicate for advertisement charges along with tear sheet of the said advertisement may be sent to this office for payment please.

Thanking You

Yours faithfully,

[Signature]
18/07/07
Superintending Engineer,
Sawra-Kuddu Construction Circle,
PVPCL Rohru 171207.

CC

1

The Managing Director, PVPCL, Khalini- Shimla-2 for information please.

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Apt

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SAWRA KUDDU HYDRO ELECTRIC PROJECT (3x37 MW) ENVIRONMENTAL CLEARANCE

The Sawra-Kuddu Hydro Electric Project (3x37MW) being executed by Pabbar Valley Power Corporation Limited (a company promoted by HPSID) has been accorded Environmental clearance by the Ministry of Environment and Forest (GOI) as per the provisions of "Environmental Impact Assessment Notification", 1994 & 2006 on dated 17th May, 2007.

The project is located on River Pabbar with "Barrage", 9.2 m high at Halkoti (Tehsil, Jubbah), a "Head Race Tunnel" (HRT) 5m dia D-shaped, 11.145 Km long and "Under-ground Power House" generating (3x37 MW) with annual energy generation of 374 millions units (90% dependable year) or 507 million units (50% mean year) at Snail (Tehsil, Jubbah) at about 12Km. downstream from Halkoti. The project completion cost is estimated to be Rs. 648.00 Crore.

The total cost implementing Environment Management Plan is Rs. 19.36 Crore which also include Rs. 7.31 Crore for the implementation of catchment area plan. The Environmental Management Plan as approved by the Govt. of India will be implemented by the Project level Implementation Committee (PLIC) consisting of Pradhan of project effected panchayats, Representative of Pabbar Valley Power Corporation, Representative of Sub-Divisional Magistrate, Rohru and Divisional Forest Officer, Rohru.

A local area development Committee has also been constituted by the Govt of H.P. department of MPP & Power under the chairmanship of D.C Shimla for monitoring the implementation of Resettlement & Rehabilitation Plan (RR plan), Catchments area treatment plan (CAT plan), Environment impact assessment (EIA), Quality control mechanism of the project and other activities related to Agriculture, Horticulture etc, and other Social & Religious cultural activities. A provision of about Rs 9.26 Crores has been kept for the implementation of the same. First installment will be deposited in the month of August with the Chairman of LADC.

Consequent upon accordance of environmental clearance, Pabbar Valley Power Corporation has awarded the works for construction of 11.145km long Head Race Tunnel (HRT) of the project to M/s Aban Coastal Joint Venture Hyderabad during June 2007 and project is likely to be completed in Dec-2011.


(Dr. Satish Mahajan)
Superintending Engineer,
Sawra-Kuddu Construction
PVPCL Rohru-171207 (Shimla)
Tel: 01781240067

PHILIP J. ABEL UNIVERSITY, PATIALA

ADMISSION NOTICE
Applications on prescribed form with a late fee of \$5.00 are
to a few vacant seats in

MASTER OF FINANCE AND CONTROL COURSE

Eligibility: Graduate with 50% minimum marks
Last date for submission of application in the Dept.: 25.07.07
Date of interview: 26.07.07 at 10.00 AM in Commerce Dept.
DEAN ACADEMIC AFFAIRS
 Punjabi University, Patiala

11/17/08

BHARAT SANCHAR NIGAM LTD.

Connecting India
Taleem District Jind

NOTICE INVITING TENDER

G.M.T.D. BSAH and invites properly sealed (PVC tape) MAX
from eligible contractors for underground cable laying

For eligibility criteria and further details visit our website:
www.jind.com or www.haryana.gov.in

HIMACHAL PRADESH STATE ELECTRICITY BOARD
— BRINGING POWER TO THE PEOPLE —

SAWRIA KUDDU HYDRO ELECTRIC PROJECT (SXTIHW)

ENVIRONMENTAL CLEARANCE
The Savita Kaddu Hydro Electric Project (3037 MW) being executed by Pather Valley Power Corporation Limited (a company promoted by HPSEB) has been accorded Environmental clearance by the Ministry of Environment and Forest (MOEF) as per the provisions of "Environmental Impact Assessment Notification", dated 3/2006 on dated 17th May, 2007.

The project is located on River Pabna with Barrage at 12 km from Hatkhola, Hatkhola, Jubbah, & Head Race Tunnel @ 800 m. 5 mts dia. O-shaped, 11.145 Km long with annual energy generation of 374 million units (90% dependable year) or 607 million units (50% depend year) at Gual Hatkhola, Jubbah at about 12 Km downstream from Hatkhola. The project completion cost is estimated to be Rs. 6.50 Crore.

Management Team

The total cost implementing Environment Management Plan is Rs.11.36 Crore, which also include Rs.7.51 Crore for the implementation of catchment area plan. The Environmental Management Plan as approved by the Govt. of India will be implemented by the Project Level Implementation Committee (ILIC) consisting of Pradhun of project affected panchayats. Representative of Pabbar Valley Power Corporation. Representative of Sub-Divisional Magistrate, Rohru and Divisional Forest Officer, Rohru.

[illegible]

Consequent upon accordance of environmental clearance, M/s. Hyway Corporation has awarded the works for construction of 1.145 Km long 14m Road Tunnel (HRT) of this project to M/s. Shan Coastal Joint Venture. Work commenced during June, 2007 and project is likely to be completed in Dec., 2011.

(Er. Satish Malhotra)
Sponsoring Engineer

(Er. Satish Mahajan)
Superintending Engineer,
Sawra-Kuddu Construction, PVPCL

The Sonapat Hindu Educational & Charitable Society, Sonapat

NOTICE

NOTICE
In compliance of School Education Policy 2003 (Para 22 (viii)) it is notified to all concerned members of The Bengali Hindu Educational & Charitable Society, Sonapat that Elections for the Managing Committee of S.M. Hindu Sr. Sec. School, Sonapat and Elections for the Managing Committee of S.M. Hindu Jr. Sec. School, Sonapat shall be held on Sunday, 29.08.2007 at 11:00 AM. The elections will be held at the school premises. The details of the elections will be notified by the Managing Committee.

1. Shri. Kishan Garg (Hasturung Officer)
 2. Sh. M. Haidu Sr. Sec. School,
Hindu Vidyapeeth, Hindu Kanya Sr. Sec. School,
Hindu Sr. Sec. School, Sonapat

CHANDEN KANTAR SINGH SARABHA DENTAL COLLEGE
 (Pb) - 141105

REQUIRÉS

REQUIRES

Professors, Readers and Lecturers/Demonstrators in the
Departments of Anatomy, Physiology, Bio-Chemistry,
Fracthetics and Conservative Dentistry.

Qualification: M.D., M.D.S., M.B.S., B.S., Pay Scale Rs. 600-900-1200/-
Apply with Full Bio Data

Apply with Full Bio Data

E-mail: webmaster@hawaii.com, Website: www.hawaii.com
Fax: 813-746-3637 88776-30468

58140-32575
(Principal)

**TRANSP
UNA**

NOTICE INVITING QUOTATIONS

NOTICE INVITING TENDERS
Sealed tenders are for the auction of work of Adda parties
(for collection of Bus Stand Amb for the period of 11 months are
till 25.07.2007 (25th July, 2007).

- Invited on 25.07.2007 (25th July, 2007)
1. Sale of Tender form : upto 12:00
 2. Receipt of tender form : upto 12:30 P.M.
 3. Opening of Tenders : 12:45 P.M.
 4. Open auction (if necessary) : 1:00 P.M.
 5. Cost of Tender Form : Rs. 100/- per tender form.
 6. Earnest Money : Rs. 20,000/- per tender form.
- to be had from the office of the Regional

The detail can be had from the office of the
Manager, H.R.T.C. Una on the same day.

Self-
Regional Manager
H.R.T.C., Una

ICICI Bank ICICI Bank Limited
Flag Course Circle

ICICI Bank
Registered Office: Landmark, Flaco Course Circle,
Vadodra 390007 Corporate Office: ICICI Bank
Towers, Bandra-Kurla Complex, Mumbai 400051
On behalf of ICICI Bank Ltd., Roopnagar

Dear Customers,
We are pleased to inform you that we are upgrading and relocating **Roopnagar EC to Bela Chowk** as a full-fledged branch with effect from 30th July, 2007. The address details of our new branch are:
ICICI Bank Ltd MCR-3039-E
Chowk Roopnagar-140001 Punjab

ICICI Bank Ltd MCR-3039-L
Bela Chowk Roopnagar-140001 Punjab
Please note that there is no change in your account
numbers or the security items issued to you. You will be
able to make all your transactions from this upgraded
branch from 30th July, 2007.
Assuring you of the best services at all times.
Sincerely,
Branch Manager

Sincerely,
Branch Manager

संख्या :
 Telegram : PARYAVARAN,
 NEW DELHI
 दूरभाष :
 Telephone : & Fax 2436 2827
 टेलिफैक्स :
 Telex : W-85188 DOE IN
 FAX : 4380678

भारत सरकार
 पर्यावरण एवं वन मंत्रालय
 GOVERNMENT OF INDIA
 MINISTRY OF ENVIRONMENT & FORESTS
 पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स
 PARYAVARAN BHAVAN, C.G.O. COMPLEX
 लोधी रोड, नई दिल्ली-110003
 LODHI ROAD, NEW DELHI-110003

No. J-12011/13/2006-IA.I

Dated : 17th May, 2007

Shri. A. K. Awasthi
 Managing Director,
 M/s Pabbaer Valley Power Corporation Ltd.
 Khalini
 Shimla - 171 002
 Himachal Pradesh

Sub: Sawra-Kuddu Hydroelectric Power Project -111 MW (3 x 37 MW) in
 Himachal Pradesh - **Environmental Clearance** regarding.

Sir,

This has reference to your letters No.PVPC-MD-SK-Environment/2006-1362 dated 5.10.2006 and 15.3.2007 on the above subject.

The above referred proposal was considered by the Expert Committee for River Valley & Hydroelectric projects at its meeting held on 21-22 February, 2007 and reconsidered on 21-22 March, 2007. the proposal envisages construction of a 9 m high diversion barrage from river bed level across river Pabbar for generating 111 MW hydropower. The power house will be underground. located in Rohru/Jubbal Tehsil of District Shimla of Himachal Pradesh. The project is located about 30 kms upstream of Hatkoti at Tehsil Jubbal of District Shimla to generate 111 MW hydropower and is a run of the river project. The total land requirement for the project is about 97.62 ha out of which 53.21 ha is a forest land. A total of 24 families are likely to be affected. The height of the barrage is 9 mts which will submerge 50 ha. The total estimated cost is about Rs.648 Crores and the project is to be completed in 52 months.

2. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification, 1994 & 2006 subject to strict compliance of the terms and conditions as follows:

Part A: Specific Conditions

- i) Catchment Area Treatment Plan as has been proposed should be completed in three years. The plan is given below:

Treatment Measures	Year-I	Year-II	Year-III	Year-IV	Year-V	Total
(I) Biological Treatment						
Social Forestry	60 ha	60 ha	60 ha	60 ha	60 ha	300 ha
Fuel wood and fodder grass	91 ha	91 ha	91 ha	91 ha	91 ha	455 ha
NTPP	50 ha	50 ha	50 ha	50 ha	50 ha	250 ha
Nursery development	2 No.	—	—	—	—	2 No
Pasture Development	60 ha	60 ha	60 ha	60 ha	60 ha	300 ha
(II) Engineering Treatment						
Wire crates	40	40	40	40	40	200 No.
Vegetative spurs	80	80	80	80	80	400 No.
Contour trenching	20 ha	20 ha	20 ha	20 ha	20 ha	100 ha
Bench terracing	25 ha	25 ha	25 ha	25 ha	25 ha	125 ha
Catch-water drains	100 ha	100 ha	100 ha	100 ha	100 ha	500 ha
R/W & Check dams	97 ha	97 ha	97 ha	97 ha	97 ha	485 ha

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.

iii) A Monitoring Committee for R & R should be constituted which must include representatives of project-affected persons from SC / ST category and a woman beneficiary.

iv) The commitment made during the public hearing should be fulfilled.

v) The Biodiversity Conservation & Management plan as proposed in the EMP shall be followed in toto.

vii) All the equipment which are likely to-generate high noise levels are to be fully mollified (noise reduction measures)

viii) 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

Part-B: General Conditions

(i) 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.

(ii) Fuel depot may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.

(iii) All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.

- (iv) 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.
- (v) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.
- (vi) A Multidisciplinary committee should be constituted in consultation with the Ministry, 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.

3. Officials from Regional Office MOEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection.

4. The responsibility of implementation of environmental safeguards rests fully with the PVVC, Ltd & Government of Himachal Pradesh.

5. In case of change in the scope of the project, project would require a fresh appraisal.


6. 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 provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.

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.

8. A copy of the clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.

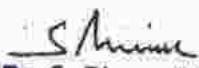
9. State Pollution Control Board / Committee should display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's office/ Tehsildar's office for 30 days.

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 clearance letters are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at [http:// www.envfor.nic.in](http://www.envfor.nic.in)


(Dr. S. Bhowmik)
Additional Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi - 110001.
3. The Secretary, Department of Environment, Government of Himachal Pradesh
4. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
5. The Regional Office, Ministry of Environment & Forests, Chandigarh
6. Member Secretary State Pollution Control Board, Government of Himachal Pradesh, Shimla
7. E1- Division, Ministry of Environment & Forests, New Delhi-110003.
8. Guard file.


(Dr. S. Bhowmik)
Additional Director

No. J-12011/13/2006-IA-I
Government of India
Ministry of Environment, Forest & Climate Change
(IA.I Division)

Indira Paryavaran Bhawan
3rd Floor, Vayu Wing
Jor Bagh Road
New Delhi-110 003

Dated: 14th December, 2017

To
The General Manager
M/s. Pabbar Valley Power Corporation Ltd
Hatkoti, Tehsil Jubbal
District Shimla
Himachal Pradesh - 171 206

Sub: Sawra-Kuddu HEP (111 MW) in Shimla District of Himachal Pradesh by M/s. Pabbar Valley Power Corporation Ltd - Extension of validity of Environmental Clearance - regarding.

Sir,

This has reference to your letter No. HPPCL/GM/SKHEP/Env./2017-3275-77 dated 25.9.2017 on the above subject. The Environmental Clearance (EC) for this project was accorded on 17.5.2017 for a period of 5 years as per the provisions of EIA Notifications, 1994 and 2006. Your request for extension of validity of EC for further 5 years has been examined in the Ministry as well as by EAC in its meeting held on 24.10.2017.

2. It was informed that the maximum validity of EC for River Valley Projects is for 10 years and as per EIA Notification, 2006, a provision of extension of validity of EC for further period of 3 years beyond 10 years is available for River valley Projects.

3. The EAC duly considered the relevant documents submitted by you and have recommended for extension of validity of EC for a period of 3 years. Accordingly, the Ministry hereby accords extension of the validity of the EC for 3 years i.e. from 16.5.2017 to 16.5.2020 to Sawra-Kuddu HEP (111 MW) in Shimla District of Himachal Pradesh by M/s. Pabbar valley Power Corporation Ltd to commission the project with the following conditions:

- i. HP State Forest Department will provide utilization certificate for funds provided under CAT plan and Compensatory Afforestation Programme.
- ii. Component-wise details on funds allocated towards EMP with cost revised to current price level to be submitted.
- iii. Details on total muck generated from the project and total muck utilized and also total land area of muck dumping sites to be submitted.



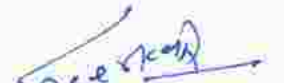
4. All the terms and conditions of the Environmental Clearance stipulated in Letter No. J-12011/13/2006-IA.I dated 17.5.2007 remain unchanged.
5. This issues with the approval of the Competent Authority.

Yours faithfully,


(Dr. S. Kerketta)
Director

Copy to:

1. Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-1.
2. The Secretary, Ministry of Water Resources, RD & GR, Shram Shakti Bhawan, Rafi Marg, New Delhi -3.
3. The Special Secretary (Power), Department of Power, Govt. of Himachal Pradesh, Shimla.
4. The Secretary, Department of Environment, Government of Himachal Pradesh, Forest Secretariat, Shimla.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. The Addl PCCF(Central), Regional Office, Ministry of Environment, Forest & Climate Change, Bays No.24-25, Sector- 31-A Dakshin Marg, Chandigarh-162 022.
7. The Member Secretary, Himachal Pradesh Pollution Control Board, Phase-III, Him Parivesh, New Shimla -171009.
8. Guard File.


(Dr. S. Kerketta)
Director

Compliance to Condition No.(i) of Extension of Validity of Environment Clearance of Sawra Kuddu HEP

Utilization Certificate in “FORM GFR 19-A” for the funds provided under CAT Plan as received from Himachal Pradesh State Forest is as under: -

Sr.No.	Period of Utilization Certificate in “FORM GFR 19-A”	Amount of Utilization Certificate in “FORM GFR 19-A”	Letter No.	Dated	Annexure
1	2009-10	Rs.3,53,500/-	4677	28/09/2018	Annexure-UC-1
2	2010-11	Rs.23,28,500/-	4677	28/09/2018	Annexure-UC-2
3	2011-12	Rs.59,83,553/-	4677	28/09/2018	Annexure-UC-3
4	2012-13	Rs.52,00,000/-	4677	28/09/2018	Annexure-UC-4
5	2014-15	Rs.99,80,000/-	4677	28/09/2018	Annexure-UC-5
6	2015-16	Rs.43,00,553/-	4677	28/09/2018	Annexure-UC-6
7	2016-17	Rs.38,19,100	4677	28/09/2018	Annexure-UC-7
8	2017-18	Rs.18,31,822/-	4677	28/09/2018	Annexure-UC-8
Total		Rs.4,29,87,908/-			

No. 4677
HP Forest Department

Dated Rohru, the 28/9/18

From: -

Divisional Forest Officer
Rohru, Forest Division Rohru.

To: -

Dy. General Manager (HRT),
Sawra-Kuddu HEP (111 MW),
HPPCL, Hatkoti.

Sub: -

Utilization Certificate of the funds provided under
Compensatory Afforestation.

Memo: -

Please refer to your letter No.
HPPCL/SKHEP/DGM(HRT)/Env/E-8/2018-19-246-47 dated 24/7/2018 on the subject
cited above.

As requested the utilization of certificates of following
schemes are enclosed herewith as under: -

Sr. No.	Name of Scheme	Detail of Utilization
1	Sawra Kuddu CAT Plan	Annexure-A1 to Annexure- A9 (2009-10 to 2017-18)
2	Compensatory Afforestation (for 108 hac.)	Annexure-B
3	Compensatory Afforestation (for 0.6942 hac.)	Annexure-C
4	Compensatory Afforestation (for 0.3472 hac.)	Annexure-D

As far as utilization certificate regarding NPV is concerned, that cannot be provided from this office since the funds under this scheme is not allotted proposal wise. This is for favour of information and necessary action please.

Encl: - As above



Smt. Mervin (Sd)
(Cen) Sd
N. H
al
Noted
Mervin
Sd (Cen)

"FORM GFR 19-A"

(See Rule 212 (1))

Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	C.F. Shwmla, Endst No - A-U-6 /APO / CAT / 8337-38 Dt 23-1-2010.	6,49,000

Certified that out of Rs. 6,49,000/- Grants-in aid sanctioned during the year 2009-10 in favour of Dfo Rohru under this Ministry/Department letter No. given in the margin and Rs. - on account of unspent balance of the previous year a sum of Rs. 3,53,500 has been utilized for the purpose of CAT Plan works for which it was sanctioned and that the balance of Rs. 2,95,500 remaining un-utilized at the end of the year has been surrendered to Government (vide No.) - dated - will be adjusted towards the grants in-aid payable during the next year 2010-11.

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised that following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Filed cheques by R.O's and B.O's
2. Attended
- 3.
4. Divisional Forest Officer
5. Rohru Forest Division, Rohru

Signature

Divisional Forest Officer

Designation

Rohru Forest Division, Rohru

Date

"FORM GFR 19-A"

(See Rule 212 (1))

Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	C.F. Shrivardha. Endst No - A-II-6/ APO/KAT/ 1558-59 Dated 21-5-2010	76,10,600
2	Endst No - A-II-6/ APO/3754- Dated 27-7-2010 Total	6,48,850
		82,59,450
3	Endst No - 659-10 Dated 26-4-2011 Amount transfer to D.F.O. Shrivardha	16,100
	Net	82,43,350

82,43,350
Certified that out of Rs. _____ of Grants-in aid sanctioned during the year 2010-11 in favour of D.F.O. Shrivardha, under this Ministry/Department letter No. _____ given in the margin and Rs. 2,99,500 in account of unspent balance of the previous year a sum of Rs. 23,28,500 has been utilized for the purpose of CAT plan works, which it was sanctioned and that the balance of Rs. 62,10,350 remaining un-utilized at the end of the year has been surrendered to Government (vide No.) _____ dated _____ will be adjusted towards the grants in-aid payable during the next year 2011-12.

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised that following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised

1. Field checking by R.O's and B.O's

2.

3.

4.

5.

Divisional Officer
Rohru Forest Division, Rohru

Signature [Signature] Divisional Forest Officer

Designation [Signature] Rohru Forest Division, Rohru

Date _____

GFR 19 - A
(See Rule 212 (1))
Form of Utilization Certificate

S No.	Letter No. and Date	Amount (Rs.)	
	Utilization Certificate 2011-12		<p>Certified that out of Rs. <u>62,10,350</u> of Grants-in-aid sanctioned during the years <u>2010-11</u> in favour of <u>D.F.O. Rohru</u> under this Ministry/ Department letter No. given in the margin and Rs. _____ on account of unspent balance of the previous year, a sum of Rs. <u>59,83,553</u> has been utilized for the purpose of <u>CAT Plan Works</u> for which it was sanctioned and that the balance of Rs. <u>2,26,797 = 00</u> remaining unutilized at the end of the year has been surrendered to Government (vide No. _____ dated _____) will be adjusted towards the grants-in-aid payable during the next year <u>2012-13</u>.</p>
	Total		

1. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised.

1. F.R.O's
2. Deputy Ranger's
- 3.
4. Forest Guard's
5. *[Signature]*

Signature _____

Designation _____

Date _____

Division Forest Officer
Rohru Forest Division, Rohru

" FORM GFR 19-A "
(See Rule 212 (1))
Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	Nodal Officer-cum-HP State CAMPA-CF (CAT) Plan Shimla letter No. CAMPA-2010-APO-Approval 2012-13 dated 28-6-2012	52,00,000/-
		52,00,000/-

Certified that out of Rs.52,00,000/- of sanctioned during the year 2012-13 under this Ministry/Department letter No. given in the margin for execution of works under Sawra Kudu HEP CAT Plan and a sum of Rs. 52,00,000/- have been utilized for the purpose for which it was sanctioned and that the balance of nil remained un-utilized at the end of the year.

I. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised that following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:- Field checking by RO, BOs and Forest Guards.

Attenu

Divisional Forest Officer
 Rohru Forest Division, Rohru

+

Parde

Signature *Divisional Forest Officer,
 Rohru Forest Division, Rohru*

Designation _____

Date _____

" FORM GFR 19-A "
(See Rule 212 (1))
Form of utilization certificate

S. No.	Sanctioned Letter No. and Date	Amount (Rs)
i	Addl Pr. CCF (CAT Plan) HP Shimla letter No. CAMPA.06/2010/Shimla dated 9-7-2013 & dated 1-1-2014.	Rs. 95,09,100/-
Total		95,09,100/-

Certified that out of Rs.95,09,100/- of sanctioned during the year 2013-14 under this Ministry/Department letter No. given in the margin and a sum of Rs.95,09,100/- utilized during 2013-14 for the implementation of Sawra Kudu HEP CAT Plan no balance remained un-utilized out of which an amount of at the end of the year

Kinds of checks exercised:- Field checking by RO, BOs and Forest Guards.

Signature _____

Designation _____

Date 08/04/14

[Signature]
 Divisional Forest Officer
 Rohru Forest Division, Rohru

" FORM GFR 19-A "
(Sec Rule 212 (1))
Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	Chairperson, Executive Committee-State CAMPA-cum-Pr. CCF (HoFF) HP letter No. FL CAMPA. 0/06-2010/Shimla dated 9-9-2014.	9980000
		9980000

Certified that out of Rs. 99,80,000/- of sanctioned during the year 2014-15 under this Ministry/Department letter No. given in the margin for execution of works under ~~Conservation of Forests~~ ^{Conservation of Forests} and a sum of Rs. 99,80,000/- have been utilized for the purpose for which it was sanctioned and that the balance of nil remained un-utilized at the end of the year.

Kinds of checks exercised:- Field checking by RO, DOs and Forest Guards.

Signature _____

Divisional Forest Officer
Rohru Forest Division,

Designation _____

Date _____

[Signature]
 Divisional Forest Officer
 Rohru Forest Division, Rohru

" FORM GFR 19-A "
(See Rule 212 (I))
Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	Chairperson, Executive Committee-State CAMPA-cum-Pr. CCF (HoFF) HP letter No. Ft. CAMPA. 0/06-2010/Shimla/Vol-IV dated 17-7-2015 & 19-7-2015.	43,45,600/-
		43,45,600/-

Certified that out of Rs.43,45,600/- of sanctioned during the year 2015-16 under this Ministry/Department letter No. given in the margin for execution of works under Sawra Kudu HEP CAT Plan and a sum of Rs. 43,00,533/- have been utilized for the purpose for which it was sanctioned and the balance of Rs.45,067/- remained un-utilized at the end of the year.

Kinds of checks exercised:- Field checking by RO, BOs and Forest Guards.

Signature _____

Designation _____

Manish K. H.
Divisional Forest Officer
Rohru Forest Division.

Alleen Date _____

Divisional Forest Officer
 Rohru Forest Division, Rohru

" FORM GFR 19-A"

(See Rule 212 (1))

Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	Chairperson, Executive Committee-State CAMPA-cum-Pr. CCF (HoFF) HP letter No. Ft. CAMPA. 0/06-2010/Shimla/Vol-VI dated 31-3-2017.	38,19,100/-
		38,19,100

Certified that out of Rs. 38,19,100/- of sanctioned during the year 2016-17 under this Ministry/Department letter No. given in the margin for execution of works under Sawra Kudu CAT Plan and a sum of Rs. 38,19,100/- have been utilized for the purpose for which it was sanctioned and no balance remained un-utilized at the end of the year.

Kinds of checks exercised:- Field checking by RO, BOs and Forest Guards.

Signature Divisional Forest Officer
Rohru Forest Division, Rohru

Designation _____

Date _____

Attest

Divisional Forest Officer
Rohru Forest Division, Rohru

"FORM GFR 19-A"
(See Rule 212 (1))
Form of utilization certificate

S. No.	Letter No. and Date	Amount (Rs)
1	Chairperson, Executive Committee-State CAMPA-cum-Pr. CCF (HoFF) HP letter No. Ft. CAMPA, 0/06-2010 /Shimla/Vol-VII dated 29-3-2018.	1831822
		1831822

Certified that out of Rs. 18,31,822/- of sanctioned during the year 2017-18 under this Ministry/Department letter No. given in the margin for execution of works under Sawra Kudu CAT Plan and a sum of Rs. 18,31,822/- have been utilized for the purpose for which it was sanctioned and no balance remained un-utilized at the end of the year.

Signature



Divisional Forest Officer
 Rohru Forest Division, Rohru

Divisional Forest Officer
 Rohru Forest Division, Rohru

No. 4677
HP Forest Department

Dated Rohru, the 28/9/18

From: -

Divisional Forest Officer
Rohru, Forest Division Rohru.

To: -

Dy. General Manager (HRT),
Sawra-Kuddu HEP (111 MW),
HPPCL, Hatkoti.

Sub: -

Utilization Certificate of the funds provided under
Compensatory Afforestation.

Memo: -

Please refer to your letter No.
HPPCL/SKHEP/DGM(HRT)/Env/E-8/2018-19-246-47 dated 24/7/2018 on the subject
cited above.

As requested the utilization of certificates of following
schemes are enclosed herewith as under: -

Sr. No.	Name of Scheme	Detail of Utilization
1	Sawra Kuddu CAT Plan	Annexure-A1 to Annexure- A9 (2009-10 to 2017-18)
2	Compensatory Afforestation (for 108 hac.)	Annexure-B
3	Compensatory Afforestation (for 0.6942 hac.)	Annexure-C
4	Compensatory Afforestation (for 0.3472 hac.)	Annexure-D

As far as utilization certificate regarding NPV is concerned, that cannot be provided from this office since the funds under this scheme is not allotted proposal wise. This is for favour of information and necessary action please.

Encl: - As above



Smt. Mohan (Sd)
(Cny) Rv
M. H.

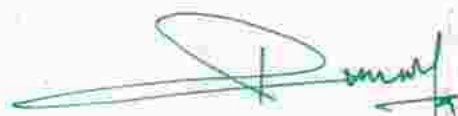
Noted
Mohan
Sd (Cny)

" FORM GFR 19-A"

(See Rule 212 (1)

Form of utilization Certificate

Sr No	Letter No and Date	Amount (RS)	
1.	Divisional Forest officer Rohru letter No . 1870 -73 /R Dated 14-08-2007 & Revised letter No . 3170 -73 /R Date 6- 02-2008 Budget allotment for the year 2007-08	22,4,7900/-	<p>Certified that the amount of RS. 22,47,900/-</p> <p>Provided during the year 2007-08 under letter No . given in the margin for execution of 108 ha plantation planted Under (Compensatory Afforestation (Sawra kuddu Hydle project). the amount RS . 22,47, 900 /- has been utilized for the purpose for which it was sanction ed.</p>



Range Forest Officer
Signature ~~Swati Nagar~~ Forest Range

c/s
Divisional Forest Officer
Rohru Forest Division, Rohru

"FORM GFR 19-A"

(See Rule 212 (1))

Form of utilization certificate

S. No.	Name of Scheme	Amount (Rs)
1	Compensatory Afforestation in lieu of diversion of 0.6942 ha of forest land for construction approach road to explosive magazine in respect of Sawra Kudu HEP	97783
		97783

Certified that the amount of Rs. 97,783/- have been utilized for raising compensatory afforestation in lieu of diversion of 0.6942 ha of forest land for construction of approach road to explosive magazine w. e. f. 2013-14 to 2017-18.

Signature


 Divisional Forest Officer
 Rohru Forest Division, Rohru

"FORM GFR 19-A"

(See Rule 212 (1))

Form of utilization certificate

S. No.	Name of Scheme	Amount (Rs)
1	Compensatory Afforestation in lieu of diversion of 0.3472 ha of forest land for construction of additional adit in respect of Sawra Kudu HEP	49315
		49315

Certified that the amount of Rs. 49,315/- have been utilized for raising compensatory afforestation in lieu of diversion of 0.3472 ha of forest land for construction of additional adit in respect of Sawra Kudu w. e. f. 2013-14 to 2017-18.

Signature

Divisional Forest Officer
Rohru Forest Division, Rohru

Allocation of funds for different components of Environment Management Plan of Sawra Kuddu HEP and their cost revised to current price level			
S. No.	Description of Items	Allocation of funds (In Lacs)	Cost revised to current price level (In lacs) (up to March 2018)
1	Construction of Sewage Treatment Plant	24.00	58.6
2	Solid Waste collection and disposal system	23.40	47.12
3	Sewage Disposal for labour Camp	15.00	60.73
4	Cost of substitution of fuel wood for work force	15.80	145.11
5	Muck Management and Rehabilitation of Disposal Sites	337.40	718.9
6	Mining Area Rehabilitation including maintenance for 7 years	40.30	34.7
7	Compensatory afforestation including maintenance for 7 years	42.65	73.00
8	Health Delivery System	12.00	72.13
9	Control of Air Pollution	15.00	23.62
10	Environmental Measures in Project's transport line	10.00	9.78
11	Noise Control Measures	2.00	5.33
12	Sustenance and Development of Fisheries including O&M	130.00	130.00
13	Greenbelt Development	13.00	13.00
14	Management of dust from transport activities	20.00	81.20
15	Road side Plantation	20.00	20.00
16	Cost of implementing CAT plan i/e maintenance for 7 years.	731.08	662.00
17	NPV paid to ameliorate environment	367.15	374.42
18	Impact mitigation on cultural sites	3.00	28.91
19	Cost of Environment Monitoring Programme	71.82	718.7
20	O&M cost	42.23	375.63
	Total	1935.83	3652.88

Compliance to Condition No.3 of Extension of Validity of Environment Clearance of Sawra Kuddu HEP upto Sept.2018 .

Sr. No.	Name of dumping sites	Area (Sqm.)	Capacity (Cum.)
1	Bharot	25451	183247.20
2	Katinda-1	5878	31153.40
3	Katinda-2	18569	120141.40
4	Katinda-3	15654	104099.10
5	Rajkot	11003	72839.86
6	Mungra Nadal	29990	171842.70
7	Hiuna	2884	42445.00
8	Anti	1422	42837.00
9	College Ground	20000	250000.00
Total		1,30,851	10,18,605.66

Detail of total muck generated from various components of Sawra Kuddu HEP(111MW), HPPCL

S.No	Components	Muck Generated(Cum.)
1	Diversion Barrage Intake Desanding	6,18,068.71
2	Head Race Tunnel	5,93,102.1
3	Power House	2,62,725.43
	Total	14,73,896.24

Total Muck utilised up to Sept.,2018 : 7,38,380.06Cum