

Himachal Pradesh Power Corporation Limited (A State Government Undertaking)

Integrated Kashang HEP, Reckong Peo Distt. Kinnaur (HP).
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No:- HPPCL/IK/E&F/(K-1)/ Vol.XII/2015-16- 5698-5763 Dated:- 9/13/3015

To

The Additional Principal Chief Conservator of Forests, Ministry of Env & Forests, Regional office, Pearson road, FRI Campus, New Forest, Dehradun-248006.

Sub: C/O Integrated Kashang Hydroelectric Project-243 MW in District-Kinnaur of HP by H.P. Power Corporation Ltd.-6<sup>th</sup> monthly Compliance regarding.

Sir.

The subject cited compliance for the period April, 2015, to Sept., 2015, along with enclosures is appended herewith for your information and necessary action at our end please.

IA: - As above along with Soft copy (35. Pages)

Yours faithfully,

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Sr. Manager (E&R)
Integrated Kashang HEP
Kinfed Building,
HPPCL, R/Peo,
Dist. Kinnaur -172107.

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- The Chief Environment Specialist, Uttam Bhawan, Dogra Lodge Near-103 Tunnel, Shimla-4, for information and with the request for uploading the same in HPPCL web site please.
- The General Manager, IKHEP, Kinfed Bhawan, Reckong Peo, (Kinnaur), for information please
- The Addl. General Manager (CP), HPPCL, Himfed Bhawan, Panjri, Shimla-5., along with Annexures, for information please.
- The Divisional Forest Officer Kinnaur, at Reckong Peo, Kinnaur for information please.
- The Sr. Environment Engineer, Himachal Pradesh State Pollution Control Board Rampur, Distt Shimla, for information please.



# INTEGRATED-KASKANG HYDRO ELECTRIC PROJECT (243 MW)

1<sup>st</sup> Six Monthly Compliance of MoEF

Status Report Period Ending Oct, 2015 to March 2016

For Stage-I,II&III (195 MW)

## Point wise reply:

### Sr. No

1	CAT pla	CAT plan implementation completed on priority basis. Progress of CAT works			
	Sr. No	Funds	Funds spent by the	Details of the	Area covered bycarrying
		released by	forest department till	engineering	out Plantation and no of
		the project	date	works done	plants planted.
		authority till		till date	
		date			
	1	Rs 13.03 cr.	Received UC of Rs.5,	Сору	Utilization
			96, 85,656/- up to 31 <sup>st</sup>	enclosed as	certificatereceived from HP
			March 2016.Which	Annexure-A	Forest department up to 31 <sup>st</sup>
			includes Rs. 2, 34,		March 2015 under various
			70,800/- spent during		headsi.e.Afforestation over
			4 <sup>th</sup> quarter for		35 ha., Maintenance of
			financial year ending		Afforestation over 125 ha
			31 <sup>st</sup> March 2016		&development of nursery
			received from DFO		over13 ha. of land In the
			Kinnaur and		consolidated UC for
			utilization of		Financial year 2015-16 i.e.
			Rs.60,09,300/-		up to 31 <sup>st</sup> March 2016
			received from DFO		afforestation over
			wildlife		20ha.,Enrichment over 35
			DivisionSarahan.		ha. & Herb Plantation over
					5ha. has been reported by
					Forest Dept.

- 2. Physical and financial Progress about the implementation of the R&R scheme is enclosed as **Annexure-C.**
- 3. Updated information on the project in 13 point data sheet is enclosed as Annexure-D.

- 4. Environmental monitoring report containing all the parameters of Monitoring water quality samples for drinking and waste water, Air quality and Noise quality samples have been carried out in the month of June, 2015 and Sept2015 at various sites of IKHEP and the various parameters were analyzed i.e. pH, colour, taste, odour, Turbidity TDS, total hardness CaCO3, Alkalinity as CaCO3, Chlorides, Residual free chlorine, Ca, Mg, Nitrate, FlorideSulphate, iron Copper, Manganese, Mercury, Cadmium and Zinc. For drinking water and pH, TSS, oil and grease, COD and BOD,3 days and total residual Chlorine. Various parameters of air quality i.e.particulate matter PM<sub>10</sub>, particulate matter PM<sub>2.5</sub>, suspended particulate matter Sulphur Dioxide, Nitrogen dioxide, Carbon Mono- oxide & Ammonia as NH3 were monitored/analyzed and found within the National Ambient Quality Standards of CPCB. Copies of the reports are enclosed as Annexure-D.
- 5. Medical facilities through contractors to the workers:-Project proponent has established a dispensary at Project Site i.e. Reckong-Peo which is being run by its main contractor i.e. M/S HCC and first Aid facility is being provided/made available at every Construction site by both the Contractors i.e. M/s HCC and Patel Engineering, along with facility of ambulance vehicle. Time to time medical camps are being organized by the Project proponent in PAA and dispensary opened at Reckong-Peotofacilitate PAA/PAZ's (24 X 7) around the clock. And apart from this Medical fund i.e. 0.05% of the total project cost has been earmarked on account of the medical fund management committee for reimbursement of medical expenses to PAFs in hardship due to illness or in extreme illness or Accident cases. As on date Rs. 5,46,709/- has been disbursed among 25 PAFs.
- 6. As on date create wire / protectionworks were raised at various locations of IKHEP stage- I, II & III.

Power House site -11,306 (2009 to 2012) 515(2013to 2015)) =11,821 Nos.

Intake site.-200(2009 to 2012) 151(2013to 2016)= 351Nos

IPS site -482 (2009 to 2012)&162(2013 to 2015) =644Nos

i.e12,816Nos ofcreate walls/ gabions were constructed at various sites of IKHEPand as per the recommendations of Sr. Environment Engineer, HPSPCB Rampur additional Protection works i.e construction of Create walls/ gabions at Intake and IPS is in progress.

- 7. Details of allocation of funds for different Environment management plan along with utilization of funds is as under;
  - Rs1303.0lacs against CAT plan
  - Rs. 33.67 lacs. against compensatory afforestation (CA) of Stage-I and & Rs1,19,57,406 /-against stage-II&III
  - Rs. 42 lacs against fisheries management plan.
  - 111.37/-lacs under Environment Monitoring to the HPSPCB.

Sl. No.	Particular	Provisions in EMP (Rs. in Lakhs)	Utilization of Amount (Rs. in Lakhs)	Remarks
1	Catchment Area Treatment Plan	3050.60 for IKHEP, Stage I,II,III &IV	Rs 1303.	Had been deposited with the CAMPA against Stage I, II &III of IKHEP and utilization of Rs 597.00has been received from Forest department
2	Implementation of Resettlement & Rehabilitation Plan	300.00	3364.54	For implementation of various R&R Schemes
3	Compensatory Afforestation	541.00	153.3 lacs	CA over the 38 Ha against IKHEP Stage –I achieved and against Stage II &III to be carried out over 36 ha
4	Greenbelt Development	55.00	Rs 5.0+4.26=9.26	5.0 lacs for strengthening of Nursery and Rs.4.26lacs. for green belt development at Intake site of IKHEP Stage -I
5	Wildlife Management and Biodiversity Conservation Plan*	100.00*	60.09	Utilization Certificate received from DFO wildlife.(Cost is met from CAT plan)
6	Muck Management Plan	552.00	388.00	For Engineering measurers i.e. construction of crate walls/ gabions through contactor. against IKHEP stage –I only. Biological measures will be taken up

				by Project proponent in consultation with HP Forest department.
7	Restoration Plan for Quarry Sites	64.00	0.95	Since no quarrying was carried out from Proposed quarry site. (Rs .95 Lacs spent for preparation of mining plan )
8	Landscape and Restoration Plan	26.00		Landscape restoration plan is in progress.
9	Health Management Plan	65.00		Being implemented through Contractors &Portion of the expenditure of Plan will be met from LADF
10	Provision for Subsidized Fuel*	113.00*	109	Total 7136 no. of commercial cylinders amounting to Rs 109 lacs were provided to the labourers through contractors, rest of the Cost of Subsidized fuel will be met from CAT plans
11	Sold Waste Management	228.00	-	Part of the amount .i.e. Rs 50 lacs is meet from LADF against Stage –II& III and part of around 45 lacs. is earmarked for common incinerator& sewage plant at HPPCL Colony . which is not constructed yet, being implemented by

				project proponent
12	Disaster Management Plan	40.00	20.00	Helipad has been established at Intake site of KHEP Sage –I,. Installation of alert system, at control room at power house site and communication system is in progress.
13	Environment Monitoring Plan	124.00	141.00	Rs.114.77 to HPSPCB for monitoring and consent fees and Rs 20 lacs. to society of Environmental Protection and sustainable Development at Department of Environment Govt. of HP and 6 lacs for HP Forest department
14	Fisheries Development Plan	105.00	42.00 lacs	Rs 42.0 lacswas deposited with directorate of fisheries and utilization of Rs 40.5 has been reported by the Directorate of Fisheries
	TOTAL	5150.60	5588.25	

8. Physical and financial progress report of compensatory afforestation

Project Name	Funds released by the project authority till date (Rs.)	Funds spent by the forest department till date (Rs)	
Stage -I	33,66,650	20,95,280	38 ha (copy enclosed as Annexure-F).
Stage II &III	Rs1,19,57,406	U.C. not received	Plantation is to be carried out on 36 Ha of land under CA. As per the previous compliance conveyed, for carried out the CA (for stage II &III) funds were diverted to Rampur circleand now the same has been reverted back to Kinnaur area as per the directions of committee constituted by Hon'ble NGT and DFO Kinnaur has conveyed the project proponent that CA over 25ha. will be carried in this financial year in Jangi and Lippa area of Kinnaur.

9. Out of the Integrated Kashang HEP - 243 MW shareof Rs. 105 laces, 2 installments of the above share i.e. 42 lacs. (21 lacs each)were deposited with the Director cum Warden fisheries Himachal Pradesh, HPPCL is continuously pursuing the case with the Directorate

of Fisheries, for development towards fisheries schemes. Utilization certificateof Rs. 1.56 lac has been from Director cum Warden Fisheries Himachal Pradesh, Copy attached as **Annexure-E.** 

10. Information about labour engaged by Main contractors and fuel supplied by the contractor.

Year /periods	No of labourers engaged Contract wise.	Quantum of free fuel supplied or subsidy provided	Financial expenditure incurred in (Rs)
Oct.,2015	380 (Civil Contractor) 298 (EM Contractor)	40	1837.5/ cly.=73,500/-
Nov.2015	307 (Civil Contractor) 298 (EM Contractor)	43	79012.5
Dec.,2015	300 (Civil Contractor) 217 (EM Contractor)	48	88200
Jan.,2016	294 (Civil Contractor) 272 (EM Contractor)	46	84525
Feb.2016.	49(Civil Contractor) 272 (EM Contractor)	25	45937
March 2016.	151(Civil Contractor) 284 (EM Contractor)	29	56962.5
Total			4,28,137.5

11. Information about the medical checkup by the different contractors, expenditure incurred on medicines

Year /periods	No	of	labourers	Expenditure		Expenditur	e
	check	ed	up	incurred	on	incurred	on
	Contr	actor	wise	providing		providing	other

		medicines	facilities (in Rs)
From Oct.2015 to	Oct. 2015 to	64,136/-( Oct.2015	3,14,508/-
March 2016 (by	Dec.2015,=290 Nos.	to March 2016)	(Aprox.)
M/s HCC Ltd.)	(Civil Contractor)		
	January, 2016 to		
	March.2016=129Nos		
	(Civil Contractor)		
	170 Nos, (EM		
	Contractor)		

Pre medical examination of workers is being conducted by medical team comprising of 1 doctor, 2 compounders 2 senior nurse and 1 nurse and 3 attendants and the ambulance vehicles are deployed at the sites with all medical facilities. Apart from this Project proponent has implemented a project level medical fund scheme in Project area and kept 0.05% of the total project cost facilitate and provide medical facility and support for medical treatment of project affected families and as on date Rs 5,46,909/- were reimbursed 25 beneficiaries.

- **12.** Social welfare measures and other schemes being run for the locals and project affected people enclosed as **Annexure-B**
- 13. Compliance of Public hearing and comments made during the Public hearing along with the Compliance status

Details of issues raised during Public Hearing on 28-05-2009 at 11:00 AM onwards for proposed Integrated Kashang HEP, organized by H. P. State Pollution Control Board at village Lippa, Tehsil, Moorang, Distt. Kinnaur (H.P).:-

Sr. No	Issues Raised	Remarks on the issues raised	
1.	The representative of the public raised an objection that	LippaPanchayat has been	recommended the Entire
	all the agriculture and Horticulturist of the Sub- division adjoining to underground works has not	affected area.	as PAA against Integrated Kashang Stage-II and

	has indicated in DO-D -1		Store IV
	been indicated in R&R plan (rehabilitation and resettlement) whereas all the agriculture and Horticulturist should have been covered under R&R Plan?		Stage –IV.
2.	It is apprehended that all the 15 water sources in the Loppochakarea will dry up, which have not been mentioned in R&R Plan hence, injustice has been meted out with the local people?	A committee comprising of members of Project Proponent, IPH, revenue and representative of concerned Panchayat will be constituted and will carry out flow measure in lean season and will also prepare video graphic film. In case of reduction observed in the flow of water, it will be compensated by the project proponent.	Project proponent is committed to carry out the inventorization of all the springs in the vicinity of Lippa and Rarang and to maintain the records of the same. Prior to the start of any construction activities and shall repeat the same practice during the construction Phase and restore the same by any means if any discrepancies are observed during the construction phase. Project proponent had inventorized all the springs in the vicinity of LIPPA Asarang, Tokto&Rarang Prior to the start of construction i.e. in the Month of May and June, 2012 in the presence of representatives of concerned Villages. But due to pending litigation in the NGT, villagers are not cooperating with the Project proponent; no construction activities started from the Lippa side as on date As the Status remain same as previous compliance.
3.	Due to blasting in the tunnels	Controlled blasting will	In case of Kashang HEP
J.	it is apprehended that it will	be done and it will be	Stage-I underground
	it is apprenented that it will	or done and it will be	Suge i underground

	cause landslides which have not been indicated in R&R Plan and local people has been cheated.	ensured that there is no landslide and no damage to the property of the Government and local residents.	excavation is complete. The excavation of Stage II is stopped due to resistance by villagers of Village Lippa. Project proponent is committed to carryout controlled blasting. Moreover the tunneling activities of Stage- II is across the Mountain and having the rock cover of 500mt to 1500 mt.
4.	Dust from the construction of project is likely to damage orchards and crops and is serious issue which has not been indicated in EIA/EMP report.	Mitigation measure to control dust due to construction of project have been suggested in EIA/EMP report.	Most of the Construction sites are far away from the human habitant and underground. Project proponent is committed to take mitigation measures. Sprinkling at various locations and daily sprinkling at specific periodicity and intervals is being in carried out in case of IKHEP Stage – I. Same practice will be adopted in case of IKHEP stage II &III when the construction activities will be commence.
5.	Adverse effects due to construction of project have not been mentioned in R&R Plan.	R&R Plan has been prepared in accordance to the NRRP 2007 and Himachal Pradesh Hydro –Power Policy and the same has been approved by H.P. Government wherein all the aspects have been incorporated.	Prior to project execution Environment Impact Assessment report is to be carried out to evaluate the environmental Impact if any by the project and on the basis of Environmental Impact assessment report Environment management Plan has to

be prepared to mitigate **Impact** by the the execution of the project, and in case of Integrated Kashang HEP (243 MW), got project proponent has conducted EIA and EMP studies through the of Expert team independent agency i e. **HFRI** . and after the recommendations of State Govt. and further. Expert Appraisal Committee of MOEF Govt. of India, EAC has recommended the final Environmental Clearance of Integrated Kashang HEP 243 MW. R&R plan itselfan Remedial is document i.e. Rehabilitation and Resettlement Plan on the basis of Social Impact. It is apprehended that there **Employment** will Govt. of HP, Department <u>6</u>. be provided to the local will be decrease in yield of of MPP and Power has fruits and vegetables and people in accordance to formulated uniform increase in un-employment the notification of H.P. policy for compensation due to construction of project, Government and there for damage to crops but there is no mention during the construction of will be no adverse effect Hydro Electric Projects regarding the provisions of on vegetable and fruits on dated 11<sup>th</sup> July, 2011. permanent production. solution for employment. Further in case of Integrated Kashang HEP Stage -I a committee has been constituted to assess the compensation for Horticulture and Agriculture crops and the committee has conducted various visit to the PAA **IKHEP** of Stage i.evillage Pangi. During the reporting period on dated 19<sup>th</sup> August 2014

			received by the IKHEP, and project unit of IKHEP had forwarded the entire case to the HPPCL management and management has sought clarification from the committee before making payments and the clarification from the committee is still awaited Project proponent is committed to compensate the losses as per the above mentioned policy of HP Govt., Rs 25 lacs stands already deposited with the district administration for this purpose. Same practice will be followed in case of Stage II &III. However no construction activities have been started from the Lippa
7.	Due to construction of tunnel near by Dakchompa place, religious and pristine temple of Guru PadamSambhav is likely to be damaged which has not been addressed, which is religious and important holy place for the villagers of Lippa.	There is no likelihood of damage to be caused to the temple however; if damage occurs due to construction of project the same shall be compensated by the project proponent.	Status remain the same as Construction sites of Stage II&III is for away i.e. Horizontally and vertically from the project site & Project proponent is committed to carryout Controlled blasting, In case damage to any structure occurs the same shall be compensated logically and fairly.

8.	Dumping site at LappoRonnam is not appropriate /sufficient, which is likely to have substantial impact on the environment and aquatic life.	Dumping sites have been selected in consultation with forest department and capacity for dumping is adequate. All the dumping sites will be protected by providing retaining structures so that there is no spillage of debris.	As on date the construction from the Lippa side is yet not started. And as per the suitability of the excavated material, Project proponent will encourage the maximum utilization of this excavated material. Moreover Project proponent will dispose off maximum muck to the other side of the ridge. i.e. Pangi side where project proponent has purchased sufficient Pvt. Land for the same. And dumping will be done with Proper protection works so far as aquatic life is concerned Project proponent had got conducted a study from the Directorate of Cold water fisheries Bhim Tal, and above agencies had denied any fish fauna in the Kerang Stream.
9.	Impact on pasture and their customary rights have not been mentioned and how it will be compensated is not clear in the project report, which is very useful to the villagers of Lippa.	All the customary rights related to the forest produce will be protected and every care will be taken so that there is no damage to the forest produces, in case some damage is observed, the same shall be compensated by the project proponent.	All the customary & Forest rights of Kinnaur has been settled and well documented in the report 'Forest settlement Report of Satluj Valley, Bushahr State Part -1 'by HM Glover in the year 1921 and people of the District are enjoying the same. Project proponent has extended forest customary right equal to 500 days minimum wages to each PAF in lieu of this customary right in the

		Project affected area of Kashang HEP Stage-I and till date Rs 3.76 crore has been disbursed to 510 families and same practice shall be adopted in case of Kashang Stage II &III too.
10.	As per the Ministry of Environment and Forest Notification, water from KerangKhad should be discharged in the same Khad which is not proposed and water will be diverted to Kashang Kahd, as a result moisture contents will be reduced and will have adverse impact on Fruits and Crops.	Project proponent is committed to comply with this condition. More over Scientific study from a reputed Institute for deciding the minimum flow to be released during the lean season is complete and report awaitedand project Environment cell is continuously pursuingthe matter telephonically with the IITRoorkee. Prof Arun Kumar of IIT Rorkee (HoD Hydrology of IIT Roorkee) apprised to the Project proponent that, 'this aspect of Hydrology is covered in detail in CEIA and separate study in IKHEP may not be required. On receipt of CEIA project proponent may go through the report, whichwas expected shortly. But due to some technical/ administrative issues the reports was delayed and project proponent is committed to comply the recommendations of the same shall be complied in case of IKHEP instead of carrying out same study again. Since the Project is

under construction and the construction of Stage II &III is yet not under taken due to matter pending in the NGT although petitions has been disposed offand no diversion of water is undertaken yet and 100% of its discharge is flowing through its main course of stream /khad as on date. 11. There is a serious problem of Proponents are aware of Project proponent problem flood in PizzerNallah adjacent this aware of the issue and and to KerangNallah every year adequate amount committed to resolve for which bring lots of debris, treatment for this this issue scientifically, stones and silt to the down fulfill problem which is and the The side. water mentioned in CAT plan commitments made KerangKhad flushes/ removes will be provided. There public during various will be proper water hearings/ consultations, the debris brought PizzerNallah resulting in less continuously supply after tunnel and damage to adjacent sites at the preparation and there will experts consulting the confluence point. If tunnel is no of relevant fields, from constructed and water accumulation in the area. GSI. &Lahymayer **Project** diverted tunnel When there is more international. to from KerangKhad, then debris, debris accumulation there proponent is taking which in the Nallah than we will guidance from the brought by PizzerNallah will stop plant for two or ADB's Environmental be accumulated on the confluence three days and all water Experts and even during point of PizzerNallah of KerangKhad will be the ADB mission Nov supplied for removal of kerangKhad. There is no solid 2013 this issue solution to this problem only debris. discussed in length with under EIA & EMP only for ADB Environment and sake of formality, it Social Expert Mr. Ralf mentioned. Starkloff who Gunter visited the project site to have words with the villagers of Lippa and Pangi and Villagers of Lippa did not allow the ADB mission to even the village enter but ADB mission had short meeting with the then Pradhan of Lippa with two other along

			villagers at the District Head Quarter at Reckong-Peo, and discussed the various issues of Lippa& visited the Pangi Village and sites of IKHEP stage I and had meetings with the affected people. Project proponent is continuously trying to address the issues of Lippa with the Villagers at various levels& also to comply the directions of NGT consequent to disposing of the petitions.
12.	Provision of Rs. 2 crore for compensation/felling of trees is very less.	Compensation for felling trees which is sum of Rs.  2 Crore is adequate amount and the final amount will be decided by the Forest Department.	Provisions for compensation/ felling of trees are raised by the HP Forest Department being concerned & technically qualified for the same job. Compensation in lieu of the area CA & NPV is raised by the Forest Department in lieu of the amount of land diverted and to carry out the Compensatory afforestation, double the area, diverted, for said project and the Cost of trees to be felled will be separately raised by the forest department as per the nature and specisof the trees to be felled according to schedule of payment of their own department and Project proponent has deposited Rs1,0854,136 In lieu of NPV, Rs 36 lac. Against CA and Rs 2,32,43,829/against Cost of 349 No. of trees in case of

Integrated Kashang Stage -I & Rs 1,19,57,406/-1,58,64,073/-&Rs. ,against CA& NPV respectively for Integrated Kashang Stage II &III. Compensatory afforestation double the area in lieu of forest land diverted for Integrated Kashang HEP stage-I i.e. 38 ha is complete. And no afforestation has been carried out/ reported by the HP Forest department reporting during the period. This matter is being taken up with the concerned DFO and DFO Kinnaur has conveyed the approval of APO in respect of Compensatory afforestation of IKHEP Stage II &III with the remarks that the Area to carry out CA is not available in Kinnaur Division and being diverted and allotted to Ani, Kotgarh and Rampur and has assured work of CA will be taken up during this financial year **Progress** Utilization of the same is awaited from the Forest Department as on date CA is to be carried area only as per the directions committee of **EIA** constituted by the NGT.

13.	There is no mention about 15-	A committee comprising Project proponent i
	16 water resources falling in	of member of Project committed to carry ou
	the project area in EIA &	Proponent, IPH, revenue the inventorization of all

	EMP.	and representative of concerned Panchayat will be constituted and will carry out flow measurement in lean season and will also prepare video graphic film. In case of reduction observed in the flow of water it will be compensated by the project proponent.	the springs in the vicinity of Lippa and Rarang and kept the records of the same prior to the start of any construction activities and shall repeat the same practice during the construction phase and restore the same by any means. If any discrepancies are observed during and afterwards. Project proponent had inventorized all the springs in the vicinity of LIPPA, Asarang, Tokto&Rarang, prior to start of Construction i.e. in the month of May and June, 2012 in the presence of representatives of above villages but due to pending litigation in the NGT, villagers are not cooperating with the Project proponent & no construction activities could be start from the Lippa side. So status remains same as per the previous compliance status reported.
14.	It is apprehended that the customary rights of the local people to collect herbs and medicinal plants will be damaged and will affect the income source and there is no mention about this in the EIA &EMP.	All the customary rights related to the forest produce will be protected and every care will be taken so that there is no damage to the forest produce. In case some damage is observed the same shall be compensated by the project proponent.	All the customary & Forest rights of Kinnaur has been settled and well documented in the report 'Forest settlement Report of Satluj Valley, Bushahr State Part -1 'by HM Glover in the year 1921 and people of the District are enjoying the same, Project proponent is extending forest

			customary right equal to 500 days minimum wages to each PAF in lieu of forest customary right and in case of Kashang HEP Stage-I Project proponent has disbursed ,500 days minimum wages to residents of village Pangi and till date Rs 3,76,40,250/- has been disbursed among 510 families and same practice shall be adopted in case of Kashang Stage II &III too.
15.	There is no provision in the EIA & EMP regarding the dust emission from the dumping sites.	The provision for suppression of dust will be incorporated in the EIA & EMP.	Most of the Construction sites are far away from the human habitant and underground. Project proponent is committed to take mitigation measures by sprinklers at various locations and daily providing sprinkling at specific periodicity and intervals is been carried out in case of IKHEP Stage –I. Same practice will be followed in case of IKHEP stage II when the construction activities are commenced.
16.	It has been wrongly indicated in the EIA & EMP that there are 99% Hindu and 1% Budhist.	It will be corrected.	It has been corrected in the final EIA &EMP
17.	Sub-villages above the intake site have not been mentioned in the EIA & EMP.	The area will be inspected by project proponent along with the representative of the village and if such area is found, the same shall be	Status remains same as per the status already conveyed vide previous compliance HPPCL-ESMU-IKHEP-Env. Comp. Rprt-2011/XII

		incorporated in EIA/EMP.	Period ending Dec. 2015.
18.	15% discharge of water from the diversion structure is not sufficient.	The 15% water will be release from the diversion structure as per the H.P. Govt. notification.	Comments same as Sr. No. 10 above
19.	There will be adverse impact on Economic and Social culture. How it will be compensated.	There will be no adverse impact on the Economic and social culture.	It is well known fact that the Economic and social status of the PAA/ PAFs in the vicinity of the Project area is always flourished due to project activities, as new avenues of Employment and social activities will be generated, where as social culture of an area is also directly associated with the economic, and with the growth in the economic status. Social status is also improved, more over HPPCL has incorporated a vision to improve the economic status of the affected people from present level, by virtue of extending the benefits vested in the R&R plan in respect of economic and social culture as the Hydro Power projects are strengthening the growth and backbone of state economy
20.	Have you conducted any study regarding reduction in the size of glaciers and what will be the impact on glaciers due to construction of the project?	No study has been conducted so far regarding reduction of glaciers.	No study has been conducted by HPPCL so for as reduction of glaciers is concerned.
21.	Is there any provision to provide jobs to every resident	Employment will be provided to the local	As per the HP Govt. notification, employment

	of Lippa.	people in accordance to the notification of H.P. Government.	will be provided to the local people and as per R&R plan of HPPCL, the Main PAFs who are eligible for direct employment but have not been provided employment will be given a special rehabilitation/employment grant equivalent to the 1000 days of minimum wages for labour per family. Where as in case of Integrated Kashang HEP Stage- I, 63 No of persons wereengaged in HPPCL through work order / outsource basis and 106 no., 46 no. & 26 no. by its main contractors i.e. M/s HCC and Patel Engineering and Andritz Hydro respectively and same practice will be adopted in case of Stage II &III (Lippa Village)
22.	Representative of Lippa village opposed the construction of the project.	No comments	No Comments
23.	People are being cheated /misguided through conducting public hearing.	People are not misguided /cheated through the public hearing but they are made aware about the project proposal and impacts on the environment and mitigation measures proposed by the project proponents.	People are not misguided /cheated through the public hearing but they are made aware about the project proposals. And Project proponent wants to involve the local people in the construction of project
24.	20% royalty should be paid to the residents of villager of	No comments	Since this is a policy of H.P. Govt. and HPPCL is entity of HP. Govt. and

Lippa	as per the new notification of LADF of dated 5 <sup>th</sup> Oct, 2011., after commissioning of the
	project the Govt. will
	provide 1 % free power to LADF. The amount so
	received shall be allotted
	by LADC in the form of cash transferred to all the
	families of the project affected area, yearly,
	during the entire life
	span of the project.

Details of issues raised during Public Hearing on 29-05-2009 at 11:00 AM for proposed Integrated Kashang HEP, Organized by H. P. State Pollution Control Board at Village Pangi, Tehsil Kalpa, Distt. Kinnaur H.P.:-

Sr. No	Issues Raised	Remarks on the issues raised	
1.	Provision kept in the Environmental Management Plan should be properly implemented.	Management Plan will be	Status of the Environment Management plan with its utilizationis discussed in length in "Point 7. Compliance condition Above"
2.	During the implementation of CAT Plan local people should be involved.	The CAT Plan is implemented by the HP Forest Department and project proponent will send this request to the Forest Department.	Verbally communicated by the concerned forest Deptt. that the CAT plan implementation is carried out by the local people at large, it was conveyed by the Forest department that the implementation works of CAT plans are being done by local contractors.

3.	How much time will this project take for commissioning as local resident of Pangi village are suffering from pollution due to inordinate delay in the construction of project?	It is likely to be completed by 2013.	As far as construction work of Integrated Kashang HEP stage I is concerned Construction activities were in full swing and project was scheduled for completion in 31 March. 2013 as conveyed in previous compliance report but due to heavy snow fall and cloud burst in District Kinnaur heavy losses has occurred to entire project area and some machinery has washed away and in the month of June 2014 activation of Sliding area near Urni NH 22 remains closed due to which construction activities in the Project are also hampered, as on reporting period Project activities are being stream lined and major activities of civil construction have completed and Mechanical spinning of IKHEP Stage-I was
			Mechanical spinning of
4.	Employment should be given to the Local People in the project and free electricity should be provided to the Project Affected Area.	Employment will be given as per the HP state Govt.  Notification and preference will be given to the project affected people.	As per the HP Govt. notification employment will be provided to the local people and as envisaged in R&R plan of HPPCL, the main PAF who are eligible for direct employment but have not

			been provided employment will be given a special Rehabilitation/employment grant equivalent to the 1000 days of minimum wages for labour per family. Where as in case of Integrated Kashang HEP Stage- I, 63 No. of persons were engaged in HPPCL through work order / Outsource basis and 106no., 46 no. & 26 no. with its main contractors i.e. M/s HCC and Patel Engineering and Andritz Hydro respectively and same practice willbe followed in case of Stage II &III (Lippa Village).
5.	Pastures in the Project Area are getting damaged due to the construction of Project road?	The muck/debris generated due to construction of project road is being utilized for the construction of road by way of filling and no damage has been caused to the pastures.	Since majority of the components of the IKHEP are underground and very limited components/ structures are on the open surface. i.e. Diversion structures and dumping yards, in case of Integrated Kashang HEP Stage-I, road connectivity to the area is already there, widening of the existing road and only 1000-1500 mts.approach road was constructed, up to the diversion structure by adopting cut and fill type activity and muck generated was used for the same. Dumping of muck is being done on the designated dumping sites. And all the dumping yards

			are of temporary use and after completion of dumping, the diverted land shall be returned back to the HP Forest department after proper reclamation. There is no question of damage to the pasture of land dueto construction of roads. More over it has facilitatedthe villagers, in their day to day life due to connectivity of approach roads to their Dogri and forest areas.
6.	As it was decided by the Project proponent that all the infrastructure building such as school, hospital and colonies will be constructed in the Pangi village but now it is proposed to construct these structures at Reckong-Peo?	The project proponent clarified that the residential colony (Type-I, II) and dispensary will be constructed at village Pangi for Kashang HEP Stage-I.	Colony for O&M and Police chawki. Building, Community hall for PAA of Pangi and Dispensary building was constructed in the acquired land of IKHEP Stage I at Pangi village as per the previously conveyed compliances but due to heavy snow fall & torrential rain fall and cloud burst in the month of Jan, Feb & June 2013 respectively heavy damages to the residential colony has occurred. During the reporting period Design team from Design office visited the Project site and submitted their drawing for strengthening the damage portion, But the GSI team declared this area highly vulnerable for landslide/subsidence and no construction is recommended. Rest status remains the same.

7.	Cracks have developed in the houses of local peoples due to construction of Project roads?	Any damage caused due to construction activity shall be compensated by the project proponent.	This issue is closed.  Project proponent has already paid Rs105. Lacs.  In lieu damaged to structures due to construction activities in IKHEP Stage-I.
8.	Water from KirangKhud should not be diverted into Kashang Khud.	This proposal is not feasible.	This proposal is not feasible.
9.	During the Project road construction Breast Walls have not been provided due to which cracks are appearing in the adjoining land?	The project proponent has assured to start construction work of breast walls wherever necessary very shortly.	This Issue is closed. Since allthe activities completed in IKHEP Stage-I and Project proponent has complied all the Commitment Made in the Public hearing.
10.	Due to unmettled Project road dust is being generated and effecting the local inhabitants?	It is not feasible to metal the project road during the construction stage, but water sprinkler will be provided to suppress the dust emission.	Sprinkling of the water is being carried out through water tankers deployed at various locations Sprinkling is being carried out with specific periodicity and interval and records are being kept in PIU.
11.	Damage caused to Kuhl due to construction of Project road has not been repaired.	Project proponent ensured to take Immediate effective steps to restore the damaged Kuhl.	This issue is closed as Project proponent has already compensated for the same by providing HDPE pipes to the affected villagers of PAA.
12.	How many dumping sites have been proposed and where crushers will be established?	13 dumping sites have been proposed and two stone crushing units have been proposed, one at Intake site and other at Akpa/Powerhouse.	Thirteen dumping sites have been proposed for Integrated Kashang HEP out of which five sites are being used for dumping of excavated material & compliance of the same is being submitted monthly to the HPSPCB,

13. Study should be conducted It was clarified by the Govt. of HP, Department respect proponent of MPP and Power has with to adverse project that impact on the horticulture most of the project formulated uniform policy and agriculture. components for compensation are underground and there damage to crops during the significant will be no construction of Hydro Electric Projects on dated adverse effect 11<sup>th</sup> July, 2011. Further in horticulture and case of Integrated Kashang agriculture. HEP Stage -I a committee has been constituted to assess the compensation Horticulture Agriculture crops and the committee has carried out visit to the various PAA of IKHEP Stage I i.evillage Pangi. During reporting period and report from the committee has been received by the IKHEP, which is being processed and LADA authority has been requsetd to rectify the short comings and accordingly necessary payment shall be deposited with the LADA authority.

- 14. Issue of Scientific study is discussed in length in Para "10 of Environment Public Hearing dated 28.05.20109 at Lippa"
- 15. The wildlife life sanctuary exists at a distance of 1.5 Km from stage- IV. And project Proponent has obtained the Clearance from NBWL in its31st meeting held on 12<sup>th</sup>&13<sup>th</sup> August, 2014 under the Chairmanship of Hon'ble minister of State for Environment Forests and Climate Change Copy Of Clearance Letter is enclosed as **Annexure-F**
- 16. Copy of news paper cutting of the advertisement is enclosed as Annexure-.G

### **Environment Clearance Compliance**

Kashang HEP has been renamed as Integrated Kashang HEP. Environmental Clearance for the Project has been accorded vide Additional Director, GOI, and MoEF letter No. J-12011/13/2002-IA.I dated 15<sup>th</sup> Nov, 2002. Extension for this clearance has also been accorded vide GoI, MoEF letter No. J-12011/13/2002-1A.I dated 18.01.2008. The status of ongoing works further intimated to Additional Director MoEF, GOI, New Delhi vide DGM Kashang HEP letter No: 2264-65 dated: 8.7.2008. Now, since the work on the Project has commenced within the extension period granted up to 15.11.2008, the clearance will remain valid for entire construction period. Moreover, environment clearance for all the stages of Integrated Kashang HEP (243 MW) has

already been accorded by the GOI, MoEF vide letter No. J-12011/81/2007-IA.I dated 16 /4 2010.

Compliance status of conditions of the Environment Clearance stipulated for Integrated Kashang HEP Stage-I, II, III & IV (243MW) is given as under:-.

### **Part A: Specific Conditions:**

- (I) Catchment area Treatment Plan as has been proposed should be completed in 4 years. The plan is given below
- CAT Plan was proposed for IKHEP Stage-I for Rs 3.03 Crores.
- Revised EMP, the provision of amount of CAT plan for IKHEP (243 MW) @ 2.5% i.e. Rs 30.50 Crores is kept as per of the new notification.
- HPPCL has deposited the proportionate amount of CAT plan's bill raised by H.P. Forest Department i.e. Rs 13.03. Crores.
- Utilization of Rs Rs. 597.00 has received from HP Forest Department.

- (II) The land holding of project affected persons whose land is being acquired to be submitted to this ministry. The benefits for the land losing households will be as per the Rehabilitation & Resettlement Policy, 2006, Government of Himachal Pradesh. Adequate publicity of the compensation package should be circulated in the affected villages
- Acquisition of land for the construction of Stage-I has been completed
- Project proponent had submitted the List of MPFs to the MoEF through its variousCompliance reports (latest detailwas submitted in Compliance of 22.06.2012).
- Acquisition of land for stage II, III & IV is under way.
- The benefits to the land losing household's are admissible as per the Rehabilitation & Resettlement plan.

 Project proponent is implementing the various R&R Schemes.

IKHEP, HPPCL has disbursed the land compensation @1,04,000 per biswa (Rs. 20,80,000/ Bigha or Rs2,76,59,574.74 per ha) which is one of the highest rate of land compensation in the State.

(III)The Commitment made during the public hearing should be fulfilled.

Project Proponent is committed to comply with all the commitments made during Public hearing and compliance of Commitment made during Environment public hearing is separately discussed in 'Para 13'.

(IV) A scientific study from a reputed institute for deciding the minimum flow to be released during the lean season should be undertaken. Till the study is completed 15% of the average flow of four consecutive leanest months should be maintained for environmental flow. After the study is completed release of minimum flow should be study based or 15% whichever is higher.

Scientific study from a reputed institute for deciding the minimum flow to be released during the lean season is in process and project proponent has decided to carry out the Study through IIT Roorkee and project proponent had submitted the Executive summary of EIA/EMP and DPR to the IIT Roorkee and project Environment cell is pursuing continuously the matter with telephonically IIT Roorkee Dr. Arun Kumar - HoD Hydrology of IIT Roorkee apprised to the Project proponent that, ' this aspect of Hydrology has been carried out in detail in CEIA and separate study in IKHEP may not be required. On receipt of CEIA project proponent may go through the report and if feels like carrying the study separately. Moreover Project proponent is committed to release the 15% of the average flow of four consecutive leanest months for environmental flow. Since the Project is under construction and the construction of Stage II &III is yet not under taken due to matter pending in the NGT, no diversion of

water is undertaken yet and 100% of its flow is flowing through its main course of stream /Khad or same stream moreover this aspect of EMP is also incorporated in the EMP of Satluj basin and the aspect is dealt by the IIT Roorkee. (V) As committed during Environmental Project Proponent is committed to comply all the commitments Public hearing, the project proponent made during Public should clear the shoal formed by silt hearing, and compliance of Commitment brought by Garang (also known as made during Environment public hearing is separately discussed in 'Para 13'. Pazzar) a left bank tributary pending litigation in the NGT PAA of Lippa Kerangkhad near village Lippa well downstream of the project by either village were not cooperating with the Project releasing enough downstream discharge proponent. And project proponent is continuously pursuing the matter with the during summer months or through other Villagers and taking guidance from the means Environmental Experts ADB's in this matter. Team comprising ADB Environment Specialist of ADB Mr. Ralf Gunter Starkloff visited the project site to have dialogue with the villagers of Lippa and Pangi and Villagers of Lippa did not allow the ADB mission to even enter the village but ADB mission had a meeting with the Pradhan of Lippa along with the two other villagers at the District Head Quarter at ReckongPeo, and discussed the various issues of Lippa& visited the Pangi Village and sites of IKHEP stage I and had meetings with the affected people. Project proponent is continuously trying to address the issues of Lippa with the Villagers at various levels but due to pending litigation in NGT, villagers are not ready to discuss this issue. (VI) All the equipment which are likely to In case of IKHEP Stage -I condition was generate high noise levels is to be fully fully complied and in case of IKHEP stage II mollified (noise Reduction measures). &III this condition will be complied. (VII) Consolidation and compilation of the Excavation work of IKHEP Stage I is

muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for the generated muck of 1.17Mm3, of which 0.3Mm3 is proposed to be reutilized for construction material & other filling purpose and remaining 0.879 Mm3 of muck which goes-up 1.231 Mm3 (after increased volume) should be disposed of at 13 designate disposal areas should be strictly implemented.

complete and the construction works Stage II,&III was not taken up from Lippa side due to litigation pending in the NGT hence only 1 No. of dumping site is being used at present out of which Dumping of muck near power house and IPS is complete. Dumping in these sites has been stopped after the completion of excavation work. But due to shooting of stones from the uphill region and improper offloading of muck/debris piled up along the NH-22 by directly down **BRO** the vallev side/powerhouse complex, has badly damaged the gabion walls which are being strengthened restored. Strengthening works of dumping sites at Powerhouse and IPS are in progress. The utilization of excavated muck is being done as per the approval of the material and as on date approximately 25 to 30% of the excavated material has been reused. **Project** proponent encouraging for maximum utilization excavated muck

(VIII) Compensatory afforestation programme proposed in 86 ha should be implemented in to-to. The proposed greenbelt development in 6 ha. Using 13 different plant species along the approach roads, residential areas, office complex, trench weir sites, powerhouse sites etc at a cost of Rs. 55 lakhs should be taken-up strictly

(IX) The fisheries management plan for stocking of fish in the streams, tributaries of Sutlej River and the main river itself @ 20,000 fry about 30 mm size fingerlings/annum should be strictly adhered. A total budget of Rs. 105 lakhs is allocated for this purpose should not be

1,58,64,073/-1,19,57,406/-& deposited against CA and NPV respectively and due to non availability of Forest land in the Kinnaur circle, against CA of IKHEP stage II &III, Forest department has diverted funds to Rampur circle for Compensatory afforestation of 36 ha intimated by divisional Forest Kinnaur Physical and financial progress of the CA is still awaited from HP Forest department till date.

Out of total outlay of Fishery Management cost i.e. Rs 303.00 Lacs, IKHEP share is Rs.105.00 lacs and Project proponent will have to deposit in five equal installment of Rs 21.00 lacs each and as on date project proponent has deposited Rs 42 lacs with the Director of Fisheries and also requested

diverted.	the Director Fisheries for its financial and physical progress. During the reporting period UC/ Physical and financial Progress of Rs 1,55,665/ had been reported by the Director cum Warden and assured that the rest of the balance payment will be disbursed / spent in Fisheries development activities in Kinnaur only. Copy enclosed as Annexure-E
(X) The proposed Wildlife Management, Development and Conservation of Biodiversity Plan of the sanctuary at a cost of Rs. 100 lakhs spread over 10 years should be taken up strictly in the area outlined in the plan (as mentioned in EMP-Chapter-5) without any diversion of funds.	Wildlife Management is a part of CAT Plan and has been reported under CAT Plan Head.
(XI) The Wildlife sanctuary exists at a distance of 1.5 km from stage-IV. The Clearance from Steering Committee of NBWL under Wildlife (Protection) Act. 1972 should be obtained.	During 31 <sup>st</sup> meeting standing Committee of National Board for wildlife held on12th - 13 <sup>th</sup> August 2014 at Indira ParyavaranBhawan, New Delhi and has recommended the proposal and MoEFGovt of India has conveyed the Clearance Vide its F No.6-47/2014-WL(31 <sup>st</sup> Meeting) GoI, MoEF&CC dated03.12.2014 Copy already enclosed as Annexure-EC-III inprevious compliance

# Part -B: General Conditions

(I) Adequate free fuel arrangement should be	L.P.G./kerosene oil heaters are being provided
made for the labour forces engaged in the construction work at project cost so that	to the labour by the contractors and subcontractors of HPPCL. Community kitchen
indiscriminate felling of trees is prevented.	is operated for all and no fuel-wood from forest is being used for the labourerengaged in the constructionactivities of project, So far, during reporting period i.e., Oct, 2015 to March, 2016. 218 numbers of cylinders (19Kgs/Cylinder) by M/S HCC have been provided to the workers besides running a community kitchen/mess at
	different
(II) Fuel depot may be opened are the site to	L.P.G./kerosene oil heaters are being provided
provide the fuel (Kerosene/ wood/LPG)	to the labour by the contractors and

Medical facilities as well as recreational facilities should also be provided to the labours.

subcontractors of HPPCL. Community kitchen is operated for all and no fuel-wood from forest is being used for the labourerengaged in the construction activities of project, So far, during reporting period i.e., Oct,2015 to March, 2016. 218 numbers of cylinders (19Kgs/Cylinder) by M/S HCC have been provided to the workers besides running a community kitchen/mess at different

A dispensary has been opened at project site with one Doctor along with Pharmacist and medical aids. and two numbers of first aid centers at Intake and power house sites and camps time to time Medical are being organized by HPPCL in Project affected areas and free medicines are being distributed. The main executing agency i:e M/s Hindustan Construction Company Ltd. and M/s Patel Engineering Ltd. has provided adequate medical and recreational facilities for labourers by providing Television, sports kits etc.

During the reporting period, i.e. Oct.2015 to March2016 expenditure incurred for providing medical facilities, by main contractor i.e. M/s HCC are as under:-

- 1. Compounder and Tr. Medical Staff Expenses Rs. 3,14,508/-
- 2. Purchasing medicines 64,136
- (III) All the labours to be engaged for construction works should also be thoroughly examined by health personnel and adequately treated before issuing them work permit

Prior to the enrollment in the execution activities all, the laboures are thoroughly checked up and after ensuring the complete being engaged, fitness the labourers are Routine/ time to time checkups are being followed up by the Main contractors. All new labourers being enrolled

are subjected to medical check-ups

(IV) Restoration of construction area including dumping site of excavated material should be ensured by leveling,

The muck management proposal included in the EMP which includes engineering and biological measures for stabilization and reclamation of filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.

designated muck dumping sites. Out of 13 no. of dumping sites only 5 no. of dumping sites are being used. Excavation works of IKHEP Stage I is almost complete except Balancing reservoir and the construction works of Stage II,&III not under taken from Lippa side due to litigation pending in the NGT hence only 5 No. of dumping sites were used out of which Dumping of muck near power house and IPS is complete. Dumping in these sites have been stopped after the completion of excavation work. Since Dumping is complete in Dumping sites near power house site and heavy rain fall in District Kinnaur in June, 2013 month and triggering of land slide near power house area and widening of national Highway-22 by the Border Roads Organization (BRO) is directly throwing / bulldozing the muck to downhill of road i.e. on to HPPCL's designated dumping sites, resulting in heavy losses to the Protection works as already raised by HPPCL. Now the restoration works of damaged protection works near power house has been undertaken and being in progress and the restoration works of dumping sites at Intake Powerhouse and IPS has started and progress as on Dec, 2015. 75 Nos of create walls have been raised/constructed and now construction of protection works the powerhouse is being carried However, on completion of left out excavation, the biological measures with assistance of HPFD shall also be carried out. on the approved /designated dumping sites and a budgetary provisions of Rs 55 lac has been kept under green belt Development plan in approved EMP, details of Muck Management plan is incorporated in EMR.

(V) Financial provision should be made in the total budget of the project for

A provision of Rs 51.50 Crore has been kept for implementation of the EMP which includes the

implementation of the above suggested safeguards measures	cost of implementation of these safeguards. Apart from this 1.5% of the total project cost is also kept as Local Area Development Fund, for which complete sum of 7.06 crore has already been deposited with the local Area Development authority against Stage-I . Against Stage II &III 1st installment of LADA amounting to Rs 72.10 lacs has already been deposited with the LADC out of RS 7.21 crore. However, it has been assured by the Management that adequate funds for implementation of EMP shall be made available.
(VI) Six monthly monitoring reports should be submitted to be Ministry and its Regional Office, Chandigarh for review.	Monitoring reports are being submitted regularly. Last report for the period ending Dec, 2015 was sent vide GM Kashang letter No HPPCL/(/IK)/E&F(K-I)(XI /2015-16-5698-5703-dated 02.122015
6. 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.	During this period none of the representative of Regional office MOEF Chandigarh/ Dehradun has visited the project site of IKHEP. HPPCL commits to provide full co-operation and to ensure documents/data available to the official (s) from MOEF, Chandigarh during the inspection.
7. The responsibility of implementation of environmental safeguards rests fully with the Himachal Pradesh Power Corporation Ltd. & Government of Himachal Pradesh.	Project proponent is abiding by the condition.  And for effective implementation of safeguard policies HPPCL has established an Environment cell at each project level with Experienced & qualified Environment and R&R staff
8. The total amount of Rs. 51.50 Crores kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.	Project proponent is abiding by the condition.
9. In case of change in the scope of the project would require a fresh appraisal.	No change in the scope is envisaged at present.

10. The Ministry reserve 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.	In case of IKHEP Stage I, no additional safeguard measures were imposed by MoEF.
11. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	Project has already commenced
12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParishad/ Municipal Corporation, Urban Local NGO, if any from whom any suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Intimation of the Environmental clearance has been sent to the concerned Panchayat and published in two daily News papers and hosted in HPPCL's official website.
13. The project proponent should advertise at least in two local newspapers widely circulated in the region around the project had 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 Forest at http://www.enfor.nic.in	Insertions in the News papers for wide publicity were made as directed.

14. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional office of MOEF, the respective Office of CPCB and the SPCB

Monitoring reports are being submitted regularly. Last report for the period ending June, 2015 was sent vide GM Kashang letter No HPPCL/(/IK)/E&F(K-I) XI /2015-16-5698-5703- dated 02.12.2015

15. Any appeals against the environmental clearance shall lie with the national Environment Appellate Authority, if preferred with the period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

Two writ petitions filed by Bhagat Singh KinnarVs Union of India & Devi GayanVs Union of India were disposed off in National Green Tribunal, New Delhi on 28th January, 2016.

# **Cost for Implementing Environment Management Plan**

Sl. No.	Particular	Amount (Rs. in Lakhs)
1	Catchment Area Treatment Plan	3050.60
2	Implementation of Resettlement & Rehabilitation Plan	300.00
3	Compensatory Afforestation	541.00
4	Greenbelt Development	55.00
5	Wildlife Management and Biodiversity Conservation Plan*	100.00*
6	Muck Management Plan	552.00
7	Restoration Plan for Quarry Sites	64.00
8	Landscape and Restoration Plan	26.00
9	Health Management Plan	65.00
10	Provision for Subsidized Fuel*	113.00*
11	Sold Waste Management	228.00
12	Disaster Management Plan	40.00
13	Environment Monitoring Plan	124.00
14	Fisheries Development Plan	105.00
	TOTAL	5150.60

<sup>\*</sup>The cost of these plans has already been included in the Catchment Area Treatment Plan.

#### **Cost Estimate of CAT Plan**

S1. No.	Particulars	Amount (Rs. Lacs)
1	Treatment Works under free draining catchment.	
a)	Biological Measures	495.56
b)	Engineering Measures.	418.90
2	Treatment Works Under Impact Area.	
a)	Biological Measures	120.00
b)	Engineering Measures.	80.00
3	Treatment Works under private land	
a)	Biological Measures	29.77
b)	Engineering Measures.	10.49
	Sub Total (1) + (2) + (3)	1154.72
4	Implementation of Support Infrastructure Cost	35.23
5	Fuel wood saving devices.	14.40
6	Training and Extension Programme	15.25
7	Preparation of Micro Plans	30.50
8	Documentation	15.25
9	Gender Support	15.25
10	Funds for Educational Activities related to Medicinal Plant Sector	30.50
11	Monitoring of silt	36.00
12	Development of Eco-tourism	50.00
13	Provision for floristic survey	20.00
14	Support for Eco-task force	61.00
15	Provision for Monitoring and Evaluation Activities	152.00
16	Provision for providing Environmental Services.	305.00
17	Provision for forest protection	50.00
18	Provision for forest infrastructure development	100.00
19	Provision for rural infrastructure development	214.40
20	Publicity and environmental awareness	20.00
21	Capacity building	25.00
22	Wildlife Management and Biodiversity Conservation Plan (Chapter-5)	100.00
23	Provision for Subsidized Fuel (Chapter-10)	113.00
24	Cost escalation at 10% per year	493.10
	Grand Total	3050.60

	Tentative Expenditure details up	Annual Street Contract Contrac	The second second second	
Head Of Accounts	Particulari	Exponditure for Mar, 2016 (In linkb)	Cumulative Expenditure upto Previous Month (In Lakh)	Financial Expenditure/Perfo mance Up to: 31.03.2016
1.7	2		4	
1	Establishment charges		Wil	
1.5	Safary	67.16	689.69	733.85
1:2	Outsourced Manpower charge.	12.52	59.61	72,13
53	Wages (Dáily paid staff)	0.00	0.00	0.00
1.4	T.A.	0.38	2.76	3.12
15	Medical	2.24	2.28	4.52
1.6	Staff welfare	0.07	5.87	5.94
1.7	CPFIEFF	0.00	0.00	0.00
1.8	Training / Seminar	0.00	0.15	0.15
1.9	Honorarium, Stipend & Incentives	0.04	13.25	13.29
		0.00	3330.55	3330.65
1.10	Others ( Please Specify)	0.135.031	4081.16	000 30000 0000
	Total4	82.40	4007.70	4163,56
2 Y	Motor Vehicle	-		- 186
2.1	Vehicle running & Maintenance (POL)	0.02	0.97	0.99
22	Vehicle Hiring Charge	9.15	46.50	55.65
23	Vehicle repair	0.03	0.91	0.94
4,0	Total-2	9.20	48.38	57.58
	Total-2	9.20	100.00	87389
3	Office Expenses	1		
2.1	Rent Rates and Taxes	8.02	26.89	34 91
32	Electricity, Fuel Ex	0.21	3.22	3.43
33	Stationery	0.21	2.18	2.39
2.4	Books and Periodicals	0.04	0.43	0.47
33	Freight & Labour	0.02	0.18	0.20
3.6	Sicres & spares	0.83	0.23	9.34
37	Legal & professional charges	15.65	22.37	38.02
38	Remuneration to Auditors	0.03	0.00	0.03
3.9	Insurance	0.00	0.33	0.33
3.10	Postage	0.00	0.25	0.25
3.11	Communication	0.52	3.21	3.73
2.12	Hospitality	0.15	0.43	0.58
3,13	Publicity and Advertisement	0.84	0.47	1.31
2.14	Expenditure on transit camp	0.05	0.04	0.09
3.15	Fee and Subscription	0.00	0.00	0.00
3.18	Mac Expenses, Raising Day & Donation, Audit Expenses etc.	1.03	0.00	1.03
3,17	Preliminary Expenses	0.00	0.00	0.00
3.15	Business Development Expenses	0.00	0.00	0.00
3.19	Meeting Expenses	0,10	0.56	0.85
3.20	Bank Charges	0.02	0.02	0.04
3.21	Winter heating expenses	0.00	0.93	0.93
3.22	TDS&Service Tax and Deperictation)	0,00	0.00	0.00
3.23	Others   Safety Related Expenses	0.00	0.00	0.08
	Total-3	27.08	61.74	88.82
			2000000	
4	Maintenance	18 W. W.		- V9000
4.1	Solding	0.00	0.00	0.00
4.2	Roads	0.00	0.00	0.00
4.3	Colonies Power / Water supply	0.00	0.00	6.00
6.4	Office Equipment	0.00	0.27	0.27
9.0	Plant & Machinery	0.00	8.00	0.00
4.5	AMC	0.00	0,32	0.32
4,6	Others(Specify)	0.00	0.00	0.08

-	Total-4	0.00	0.59	0.59
	Language Control of Co	-		
5	Lend Acquisition & R&R	0.00	0.00	0.00
5.1	Cost of land	1.00	22.34	23.34
5.2	R&R plan	0.04	20.42	20.45
5.3	LADA	0.00	0.00	0.00
5,4	Studies & Research	0.00	0.00	0.00
5.5	Other Social Welfare activities	9.00	0.00	0.00
5.6	Wild Life Protection Compensation/Damages	0.00	16.44	16.44
6.5	Others (Specify)	0.00	0.00	0.00
4,0	Total-6	1,04	59.20	60.24
-	7,000	1,04	95.20	90.24
ő.	Environment		2000	
3.1	CAT Plan	0.00	0.00	0.09
8.2	Compensator Afforescation	0.00	0.00	0.00
63	Studies and Research	0.00	0.00	0.00
8.4	EMP	0.00	9.00	0.00
6.5	Environment & Ecology Ex.	0.12	9.07	9.79
5,6	Others (Specify)	0.00	0.00	0.00
	Total-6	0.12	9.07	9.19
7	Infrastructure work			
7.1	Buildings	0.04	0.00	0.04
7.2	Roads and Bridges	8.81	48.91	56.72
7.3	Construction power	0.22	28.59	28.01
7.4	Halipade / Water Transport	0.00	0.00	0.00
7.5	Plant & Machinery i.e. Treatment plant, labs etc.	0.00	0.00	0.00
7.6	Others (Specify)	0.00	0.00	0.00
	Total:-7	9.07	75.50	84.57
2	Kan Tayesel	2 - 11/2 - 2		
8	Main works Civil	10000000	Options	466 (46)
81.	Adits, Tunnels & Barrages Pressure Shaft /Penstock	97,96 30.01	325.63 4209.69	423.49 4299.70
83	DAM intakes	9.61	490.45	485.95
8.4	HRT/TRT/MAT/Conveyance Ch.	10.44	165.24	175.6B
5.5	Power House/TH/Power Chanel	19.83	465.00	484.83
86	Other (Day Work)	0.18	73.69	73.87
	Total:-8	167.93	5779.60	5947.53
	W/W 170	10.00		0.000
9	Main Works Electronic/Mechanical:	292.00	Anne to	Table 100
8.1	Generation	417.98	4083.56	4501.52
92	Pot Head Yard /Switch yerd	0.00	0.00	0.00
9.3	Transmission	0.00	0.00	0.00
9.4	DG Sata/ AC Plants Batteries etc. Others (Specify)	0.00	9.00	0.00
9.5	Total:-9	417.96	4083.56	0.00 4501,52
		1 III	30 V/(=)	200
10	Interest During Construction period (IDC)	100.00		
21_	Principal Repayment	0.00	0.00	0.00
0.2	Interest on Loans Total - 10	0.00	60.49 60.49	60.49
	T.Williams	4.00	99,73	90,90
11	Other capital Assets			
11	Vehicle	0.00	0.00	0.00
1.2	Furniture & Fixture	0.00	0,00	0.00
1.3	affice equipments	0.00	0.00	0.80
1.4	Data Processing equipment	0.06	0.00	0.09
200 000	Software	0.00	0.00	0.00
1,6	Others	0.00	0.00	0.00
	A CONTRACTOR OF THE CONTRACTOR			2.00
	Total-11	0.00	0.00	0.00
1.6	Total-51	0.00	0.00	9.00
16	A CONTRACTOR OF THE CONTRACTOR	0.00	0.00	0.00

	Total-12	0.00	2000	1
		0.00	0.00	0.00
13	Mobilisation Advance			
13.1	Against Civil Works	0.00	0.00	0.00
13.2	Ageinst EBM	0.00	0.00	0.00
13.3	Others	0.00	0.00	0.00
	Total-13	0.00	0.00	0.00
14	Staff Welfers Advances			
14.1	Warm Clothing, Festival, Computer & HBA Adv. Etc.	0.00	0.00	0.00
	Total-14	0.00	0.00	0.00
-	Grand Total(1 to12)	714.80	14259.29	14974.09

1. So many above them has been adjusted accordingly to WeS because ledger wise it spents afficial to have the expenditure.

Sr Tamager (Finance) Integrated Kashang HEP, HPPCL, Reckong Pao, Kinnaur

110539.08

39 20,09,00

	Partie of	New of	Norm of	Name	Name of	Thiomand	ort for the quarter of	The second secon			and in the last of the last		-	the beautiful to the same of			
1	Component		Division		Block	Bent	Arma Nursery/ huniding/ road etc.	Proticulars of works	lan	nt alletted	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hieved open quarter		sectionical discognisation		gressive evenera	Harrark
L	0.000	1-2-	-		-	<u></u>	omong type ca.		Phy.	Fin.	Phy.	Fin	Phys	Fin	Pity.	Fin.	
	- 1	3	-	15	fi.	7	- F	2	10	-11	12	13	14	35	16	15	18
	Integrated Kas		***													37.44	
	Plantation	Rangur	Krimur	Kalpa	Kaipa	Pargi	0.034	9h year Mini.	- 5	13000	- 5	18000	.0	10	3	13000	-
	Afforestation			Кара	Kaipa	Pengi	C-233		5	13000	: 3	13000	(0)	0	- 5	13000	-
				Moorang	Jergi-	Runng	E-292 a		- 5	13000	- 4	10575	10	2425	3	13000	
				Moorang	Jöngi -	Rarang	C-232 to		- 1	13000	4	10575		2425	-	19000	
	100			-50	-		Total		:200	52000	13	47150	2	4850	20	52000	-
	Emidenen			Moorang	lang	Raning.	C-230+(b)	New Plantation	50	200500	320	183947	- 1	18553	5	280500	
Ī				Kalpa	Kelpe	Pungi	C-241		-	200500		180000	- 6	20491	51:	200900	_
1						133	Total		10	401000		763956	- 1	37844	- 11		
1			-	Kalpa	Kalpa	Panel	10000	2nd year Malay	44	18900	- 4	18500	- 4	2.0944	10	401000	
i				Kalpa	200	The state of the s	C-291 Relicht	Searches (Martin	3	18500	- 3	11.09.53	- 9	- 0	- 1	18500	
				2040	S-squ.	3	Khona			-18300		18590	0			18500	
Ц				-1000	in the same	J	Total		10	37000	10	37010	9	- 0	10	37000	
			_	Salu	Kales	Partei	C-234b	3rd year Maint	- 5	98007	3	9800	.0	- 0	5	94000	
				Kalpa	Kaga		C-233 Rakela Khom	time to the time t	=	\$750	D	9750	3	9	5	9750	
				Moorang	longi	Barrou	C-232-6		1.5	9750	3.9	- 0	179	9750	51	9750	
					-		Total.		15	29300	- 5	19550	10	9750	15	29300	
						Total Ma	lett. Enrich		25	66300	13	56550	10	9750	25	66300	_
	500			===		Total En	rich		35	467380	24	420506	-11	46794	18	467300	
- 1	NTEP (Herb Pirotation)		2	Koljus	Kelpu	Pangs :	0.340	Nov	- 3	245550		176730	- 5	68770	8	245500	
							Total NTFP.	1	- 5	248500	0	176730	- 3	68770	5	245500	
4	2000000					Total Pla	matico		60	764990	41	644386	15	120414	80	764300	
- 3	Dov. of Nursery			E		Uppa	Lippa Nay.			200000	9.0	144000	1	56000	1	280000	
1			-	Kalpa	Kalps	Parqi	Dartol Ny		Titl.	35000	- 0	38900	- 1	116000	1	25000	
1			- 2	Kalpa	Kelps	Parigi	Pargr Ney		111	130000	- 0	124800	- 1	25300	- 1	155000	
1		1	1 3			10/2/	Total Ney.		3	401000	- 0	387208	- 3	12890	3	401000	

rimagnatust Kachang.

fig of powers/		Division	Name of Range	Block	Nome of Boat	Area biarray/	Psetientars of Works	De	art silonei	A. C. S. A. S.	drawed ages quarter		rischlieved dur gainter	7.000	growing exempts	Remarks
go-carriery	100	-			0.000	building road ste-		Pig.	Fin	Phy.	Fin	Pig-	fin .	Phy.	Fh.	
1 1	1	7:	- 5	- 6	7	- 1	- 35	10	11	32	(35)	14	115	16	-17	18.
Soil & Water (	Osservati	on Work	ye I make a second													
			Moceang	Joogl	Lippy	Turaug	Civil Secture.	- 3.	300000	79	289000		20000	16	300000	1
			Moorang.	Seast	Lippa	Pfofumphia.		1	300000	- 8	-283000	- 00	20000	- 8	: 300000	
			Morrang	Junai	Lippu	Charmachta		1.1	300000	0	280000	. 4	20000	- 0	300000	
			Moorang	Mrgi	Lippu	Nazakaling Teti Khud		91	300000	- 0	169300	3	130700	3	500000	
			Moorang	langi	Lippu	Ten Khad Uroung!		103	500000	39	435000		65000	70	500000	
			Motorig	Jungt	Lippu	Jarong Sharga		- 1	300000.	22	280000	9	20000	22	300000	
			Mooring	Jauri		Photeler		1	300000	21	280000	6	20000	20	100000	
			Moorang	Avigi	Lippa	Shorigayel Wallah		1	225000	- 20	210250	- 0	14750	20	125000	
			Moorate	Jingi .	Lippu	Even Nation		1	325000	- 42	-296250	- 0	34750	- 70	125000	
			Moorang	Jaogi	Lippa :	Yollang Naffah		1 1	100000	-20	294000	0	6080	20	300000	
			Моский	Jimpi -	Lippu	Chiang Nollah	- 72	3.3	100000	2	400000	0	-0	- 2	400000	
			Moorang	Joseph	Lippu-	Childra Nather-III		1	400000	. 78	349000	0	\$1000	28	100000	1
			Mooratg	Januar	Lippu	Rupang Natlat.		-1	300000	2	289000	0	20000	0.3	100000	
			Mooring	Jangl	Lippa	Moralis Shekon -III		1	400000	0	-230000	12	170000	12	400000	
			Moreang	Jacqi	Lipps	Denkdeet Top		-1	100000	20	379000	0	21000	20	280000	
			Moorang	Megi	Harang	Alepa Chick Post slip		=1	300000	0.5	192045	18	187955	18	100000	
			Mooning	Jaryi	Lippu	Giovargusas		- 1	350000	15	232500	- 0	17500	15	250000	10
		V.	Moorang	Jangi	Lippu	Basio sip above Bas Stand			300000	- 2	279000	10	21000	12	100000	
			Moorang	Jangi	Jaigi	Senstang Nedlah		15 34	700000	177	279000	- 0	21000	17	300000	
			Moorang	Denzi.	Lippin	Shanning Nafish		1	300500	115	276360	- 0	23690	15	100000	
			Moorang	Negi	Romana	Yender Maltak Rocang		1	337500		285975	10	31525	111	117506	10
			Moorang	Degi	Bases	Khalperdonsil		1	300000	137	- 279000	- 0	21000	37	100000	
			Moorang.	Jangi	Romany	Shinkimien-II-		T	100000	- 9	279000	30	21000	75	300000	
			Moorang	Jago	Barrene	Bano Khadra		1	300000	14	174625	0	25375	44	100000	
			Moorang	Jongs	Barolia.	Donong Nafiah		- 1	700000		283700	0	16800	23	300000	
1			Mosconi:	James	Raminia	Germader/Nalish-)		-1	300000		174400	01	25600	19	160000	-

Integrated Keshery)

	Accepted the state of the state	Varie of Carle		Name of Europe	Name of Block	Name of Begt	Name of AnnuNumary! building/ nord on.	Particulars of works	7503	pri allotted		docent riber		tachieres the quarter		overbern everbern	Remark
1							sunding tost etc.	11	Prop	Fin	Pto/	- Fig.	Phy.	Fig.	Phy.	Un.	
11	2:	- 3	4	- 5	-6	37		9.	:18:	111	12:11	13	14	18	16	17/	18
91			1	Moorang	langi	Raning	Tarkaden Nellah-II		- 0	300000	22	262550	0	17450	22	350000	
				Mooning	the state of the s		Gerchanden Nallan		5.1	235000	- 0	297800	20	17201	70	225000	
-				Moorang			Sankarlangia -00	17.	1	-500000	29	428000	:0	79800		510000	
							Statestungth-II		1	400000	13	315000	0	25000	29	400000	
-				Mooreng	Jengi		Buron (Rating)-fl	1	134	500000	3.0	599900	.0.		14	500000	
			¥ 8	Moorang	Jeng)	Ranang	Baroo (Rarang)-III		- 1	100000	38	199000	. 0	. 0	38	100000	
			1 - 1	Moorang	langi	Raning	Shakarlengfu-L		- 1:d	400000	47	331900	0	28100	47	400000	
-				Mooning		Rammer	Strikerlungth /IV		- 1	500000	-0	279000	30	221000	30	500000	
-				Macrang		Lippu	Honni khona -10		- 01	400000	- 0	46000	33	954000	321	400000	
-				Mounting-		Lippa	Ashong		1.0	300000	25	300000	- 0	- 0	23	300000	
-				Mooning		Lipps	Dout Nails		- 4	200000	1,3	200000	- 0	400000	13	200000	
				15	Kalpa	Pengi	Boktoo Slide Abass NH5		1	200000	- 4	380000	28	120000	29	500000	
			1 3	Kalps	Kalpu	Fings	Braro Nalis	-00		400000	24	400000	- 0	0	74	400000	
			9	Kalpa	Kelps	Fings	Grama-II		(3)	E00000	>0	200000	50	300000	50	800000	
			. 9	Kalpe	Kalpu	Kalpa	Khosharing-I		- 1	- 300000	0	200000	22	500500	22	210000	
			1	Kalpa	Kalpa	Raipe	Khosisteerg-U		- 1	225000	0	50000	10	175300	10	225000	
				Kalpe	Kaipe	Kalpa	Khoshindag-III		1	229000	- 0	59007	T	170993	7	235000	
				em-s			Tetal		43	14712506	644	11558362	282	3154738	926	14712500	
				Kalpy	Kalpa		Materiang Nallah obove Pangi	Treatment of - Nation	10	35(000)	.0	332500	.0	17500	16	350000	
				Salpa	Xslpt	Pongi	Khotangi-ii		0.5	350000	20	332452	- 0	17588	20	350000	
			1	Kalpa	(Kalpu	Pangi	Gam Nalla		71	175000	18	332974	9	42526	(8)	375000	
			3	Skipe:	Kalpa	Dangt	Gridala Nollab II		-30	350000	-19	350000	-0	0	- 0	350000	
				Liverage C	Bu-keyille		Total	Arimar - 100 A	- 4	1425000	44	1347354	9	77614	44	1425000	
				Moorany	Artel	Angr	Papalo Nata -VI	Show Harvesting Structure	17	350000	6	315907	9	3-2001	13	350000	
1			7	Moorang	Tringi	Janel	Payain Nalla-VII		10	500000	90	450000	12	(10000	362	500000	

Integrated Eastweg

Page 3

	of areas	Maine of Circle		Nerse of Range	Name of Block	Name of Beat	Name of Area (Narsery) building/ med etc.	Pletscalars of works	Tirs	Xt 1200mit	I have been been as a	chieved optor		tackined the quarter		gress on everage	Remarko
	1					145	The state of the s		Phy.	Fit	Phy.	Fin:	170	Fit	Phy.	Yin:	
	1 2	d-	1	5	0.0	Section 1	Constant Constant	9	10	- 11	12	137	14	ts.	-16	17	- (3
团				Misotang	Zingi	ling	Payala Nallo-VIII		1	510000	16	4590000	0	30000	14	500000	12.0
				Kalpi	Katpa		Togdang Mober. Nather	152	- 1	410000	- 0	350071	13	19929	23	450000	
4				Kapa	Kalpa	Paugi-	Rature 41			255000	- 0	250500	19	119500	-15	750000	
				Karpa	Kalna	100,040	Avalanata Deflector Wall-Lin Debal Nobeh	Avaianche Defense	. 7	922000	ī	922000	0	0		927090	
				Kripa	Katpa		Avalanche Defluctor Crass Wat-H in Durhal Nellah	Avdasche Defische	31	373560	0	-57410	98	817,590	58	87506d	
				Kalpa	SCelya	1.17	Avidanche Deflector Crais Wall-III in Charbal Wallah	Avalancia Definition	1	694000	81	684558	1	942	82	694000	
I	and the second			ninger I	Tet	Saow H	larvesting structure		8	4641000	152	3460446	162	1.180554	294	4641000	
	lotal Soft and W			Works	- 1	-	***************************************		55	20778500	520	16366194	444	4412306	1264	20779500	_
1	Infratoracture D	Acvelopms	nt	***************************************						2811 (196.50)	240	50500EC/4		H1122006	1204	20778500	
3	Pened Infrastra	clore Dev	00			1				_	-		-				
			2	Moorang	Jangs	Targe		Maint of 9.0. Qt. Jargi		250000	D	140033		109667	- 1	250000	
				Moseurg	Jangt		Alspa	Augmentation of scorer supply to forest Compiles Akpa	1	196000	9	(83179	1	6821	ī	199000	
ŧ,				focal Fore	st Infrastru	eture De	67		2)	440000	0	323512	2	116483	2	411000	_
100	toral latines. De	evelopina		2353	00000		200211000			-		57/50	- 24	1.00	- 2		
							(a) (b)	C/u Roud & pirking at Shudahrang		217500	1	217500	0	1.0	1	237500	
				4 1 2 4 6 6 6	act. Develop	-		and the second second		and the second second second							

Integrated Kashang

Page a

Jacob March		Distriction	Networf Ranga	Name of Block	Box.	Name of Analysteery/ holiding/road etc.	Particulars of works	Targ	tamelle ty		Nevot 49to   Quantit	- C - OC -	t achieved the quester	1.00.50	worserz.	Renur
1				4000 m	والرريب	100		Ply.	Est	Pig.	Fin	Phy.	Em	Phy	Fin	_
2	1	1004	1.	- 6	7	1.	9	10	11	12	- 13	34	15	In .	17	18
Widdlife relate	Commence A. A. St. Co. Co. Co.	79		112			- 0	9	- 9	9	00	- 0	- 0	0	0.0	
Other encilled	y weeks						Publicity and average	- 0	330000	0	128200	9	21300	0	150000	
							Operational Support	. 6	200000	0	76000	0	130000	0	200000	
							OE.	- 0	200000	.0	127336	0	72664	- 0	-200000	2
							MV	0	200000	(4)	0	0	200000	-0	200000	1
						لأبيت بمسيديوس	TA	.0	100000	- 0	- 0	0	100000	- 0	100000	5
	1 3					Intal Other ancilla	y wurks		850000	91	3255%	0	524464	0	R50000	3
							Contiguos	D	0	0	- 0	0		0	D	
Total Integarb	ed Kashan	g CAT PL	10	- 7					23470800	863	180014338	467	5266472	1330	23470800	

Divisional Forest Officer, Kumaur Forest Division at Reicong Pen. 172107

Integrated Kashang

Sr.	tus of details of expenditure under R&R activities carried o R&R and other activities	Total Amount	Balance Amount
No.	The state of the s		Cotavice Amoun
1_	Land Compensation	453852964.00	536523
2	Financial Assistance in Lieu of Forest Customary Rights to 510 PAP's.	37640250,00	1000
3	R&R Grants	8947087.00	
4	227 No. Works awarded to 38 Contractors	The second second	-
-	( w.e.f year 2008 to 29-02- 2016)	137169850	
5	LADF (Local Area Development Fund) deposited against Stage -  {Rs. 7.06 Crore}, Stage-II & III (0.22 Crore) of IKHEP:	77810000.00	
5_	Damage Componsation	0.00	
	Compensation for Cracks in houses (151Families)	25000003,00	
_	Additional Compensation for Cracks in houses	8000000.00	
	Damage Compensation (5 No. Families)	1895873.00	1
	R&R Activities	0.00	
	Training & Awareness Camps (18 No.)	427671.00	
	Merit & Support Scholarship	1650000.00	
_	(26+46+32+38+31+28+15=216 No.)	57,535,57,00	A Comment
	School Competition (10 No.)	67898.00	
ŝ.	Sports Tournament (5 No.)	101406.00	
	Varshik Mela (3 No.)	310657.00	
Ē.	Project level Medical Fund Scheme		1
	(25 beneficiaries)	546909.00	1
i	Grant to CBO (Community based Organization)	80000.00	
	Total -	731000575.00	
	Other benefits extended to MPAF's & PAF's of Pangi	D	
	Village under R&R Programme.		
	Sponsored Candidates in various ITI of Himachal Pradesh (42 No.)	1312863.00	382
	Indirect Employment in HPPCL strough outsourced   w.e.f year 2008 to 31-12- 2015) 51+14=65	32395770.00	
	Employment in HCC -69	0.00	+
	Employment in M/s Patel Engineering -46	0.00	
- 1	M/s Adriz Hydro -9	0.00	1
	22 Vehicle hired in IKHEP from Pangi village   w.e.f year 2008 to 31-12-2015}	13220066	
	Other Misc, welfare works	0.00	
	Donation of 4 No. Trees for Construction of Devta Mandir at Village Pangi	712497.00	
	Installation of street Light in different location of village	712187.00	
	Benel (D. Na.)	10000 pm	
	1000 V5 1204	188235.00	
1	Purchasing & Installation of Additional 25 No. Solars Light	477925.00	911
-		3040277.00	
	water supply line from intake site to village pangi	1319561.00	
	COLUMN TO THE REAL PROPERTY OF THE PROPERTY OF	8640000.00	
	CONTROL CONTRO	MIP	
	20000001, 100000000000000000000000000000	MIP.	
		No.	
		MIP.	
	TO THE RESERVE OF THE PERSON O	9306884.00	22222
10	/ Court	90307459.00	536523

ID(RBR) IKHEP, HIPPCL, R/Peo Distr, Kinnaur,

		Environment and Forests
		gional office Dehradun ATA SHEET
1		
2	Project Type Nome of the Project	Hydro Electric Project
	Name of the Project	Integrated Kashang Hydroelectric Power Project Stage-I, II & III(243MW)
3	Clearance letter (S) O.M NO. &dates	Environment clearance for Integrated Kashang HEP Stage I, II, III &IV vide letter No. J-12011/81/2007-IA.1 dated 16/04/2010. Environment clearance for Kashang HEP (66 MW) letter No. J-12011/13/2002-IA.1 dated 15/11/2002. Forest Clearance for Stage –I vide letter NO. F-No.8-8/2001-FC dated 23 <sup>rd</sup> June 2004. Forest Clearance for Stage II & III vide letter No. F-No.9HPC366/09-CHA dated 14 <sup>th</sup> June 2011.
4	Location: a)District (S) b)State (S) c) Latitudes/Longitudes	Kinnaur Himachal Pradesh Latitude: 31° 37' 30" N to 31° 39' 21.3" N Longitude: 78° 17' 30" E to 78° 21' 36.4" E
5	Address for correspondence:	General Manager, Integrated Kashang HEP, Kinfed Building, HPPCL, Reckong Peo, Distt. Kinnaur.
6	Salient features: a) Of the Project b) Of the Environmental Management plans	Integrated Kashang Hydroelectric Project is proposed for development using waters of Kashang and Kerang streams, right bank tributaries of river Sutlej. The project is located in Kinnaur district of Himachal Pradesh and is owned by HPPCL, Kashang and Kerang river valleys are adjacent to each other and are separated by a high altitude ridge in the area of the project. Topographic features permit diversion of Kashang khad at an altitude of roughly 2830 m to an underground powerhouse located on the right bank of Sutlej river, developing a head of approximately 830 m. Topographic and geological features between Kerang and Kashang valleys are also conducive for diversion of Kerang khad, which has higher inflows than Kashang, into the Kashang water conductor system for significant augmentation of generating capacity at Kashang powerhouse.

The proposed Integrated Kashang Project of four distinct stages of comprises development: Stage-I, comprising of diversion of the Kashang stream, at El. 2829 m, to an underground powerhouse located on the right bank of Sutlej near Powari village, developing a head of approximately 830 Stage-II, comprising of diversion of the Kerang stream, at El. 2870 m, into an underground water conductor system leading the upstream end of Stage-I water conductor system; Stage-III, consisting of augmenting the generating capacity Stage-I powerhouse using Kerang waters over the 830 m head available in Kashang Stage-I powerhouse. Stage-IV, comprising of more or less independent scheme harnessing power potential of Kerang stream upstream of the diversion site of Stage-II. In this scheme, a head of approximately 300 m could be utilized to develop power in an underground powerhouse located on the right bank of Kerang The following components of EMP are being implemented:-1. Catchment Area Treatment Plan. 2. Implementation of Resettlement & Rehabilitation Plan. 3. Compensatory Afforestation. 4. Muck Management Plan. 5. Health Management Plan. 6. Provision for Subsidized Fuel. 7. Disaster Management Plan. 8. Environment Monitoring Plan. 9. Fisheries Development Plan 7 Breakup of the project area Since it is a run of the river scheme there will be no a) Submergence area: forest and submergence of forest and non-forest area.

	non- forest.						
0	b) Others	I., 41, . IIZ	HED C4	T 4 - 4 - 1 - CC	· - 4 1	£ '1'	
8	Break up of project affected population with enumeration of those losing house/dwelling units only both dwelling units and agriculture land and landless labourers/artisans.  a) SC/ST/adivasis b) Others Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. if a survey has been carried out give details and year of survey.	out of wh	HEP Stage- nich MPFs and the state of the st	are 180 (lo	osing	g lands	s/ dwelling
9	Financial details: a) projects cost as originally planned and	The stage	wise proje	ect cost as p	per DI	PR is a	as under:-
	Subsequent revised estimates and the	Stage	Civil Wor	ks E &	: M	Tota	l (in
	year of price reference.	of the project		Work	ZS.	crore	,
		I	288.79	246.5	60	535.2	29
		II & III	274.28	97.50	)	371.	78
		IV	186.87	108.5	60	295	37
		Total	749.94	452.5	50	1202	2.44
		As per the stage I,II	1.1	red TEC	now	revise	ed cost for
		Project (Stage)	Civil Works	E&M Works	Cha	ncial rges	Total (in crores)
		Stage-I	290.13	114.67	8L/	ADA 1	478.01
		Stage- II&III	303.18	123.33	61.6		488.19

- b)Allocation made for environmental management plans with item wise and
- Year wise break up.
- C) Benefit cost ratio/Internal rate of return and the year of assessment.
- 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:

]	[otal	593.31	238.00	134.89	966.2

- b. Total allocation made for Environment Management Plan is Rs. 5150.60 Lacks. and year wise breakup of CAT Plan is enclosed as "Annexure –C1"
- c. As per the DPR cost benefit ratio of the project is estimated at 1.8 and internal rate of returns is 12.2%.
- d. Yes.
- e. Actual expenditure incurred on the project so far is appended as "Annexure-C2
- f. The expenditure incurred in EMP is as under:-

		Scheme	Expenditure (in Rs.)
		CAT Plan	13,03,00,000/- 10.03 crore
		Compensatory Afforestation	Rs 33,66,650 against stage-I & Rs 1,19,57,406 against stage-II&III
		Net Present Value	1, 08, 54,136 against stage-I. Rs 1,58,64,079 against stage II&III
		Pollution Control Board	1,14,77,400/-
		Deptt. of Env. Science and Technology	20.00 lac
		Fisheries Management plan	42.0 lac
		Total expenditure	17,80,62,265/-
10	Forest land requirement:	a. Total Forest L	and required for IKHEP
	a) The status of approval for diversion of forest land for	Stage of the project	Forest Land (Hac.)
	non- forestry use.	I	18.7142
		II & III	17.6857
		IV	25.5000
		Total	61.8999
		approval for diversion purpose has been obt F. No- 8-8/2001-FC of	I of the project is concerned, a of forest land for non forestry ained from MOEF vide letter. lated 23 <sup>rd</sup> June2004 .Diversion forest land for construction of MW) has been accorded by

	T	MODE Now Dollar vide MODE Letter E. No. OLDO
		MOEF New Delhi vide MOEF letter F. No. 9HPC 366/09-CHA dated 14 <sup>th</sup> June 2011. Whereas the diversion of forest land i:e 25.5000 Hect. against the stage IV, has been proposed for which revenue papers are being processed.
	b) The status of clear felling.	b. Against Stage-I there were 349 trees earmarked for felling, out of which 143 trees were felled and total cost of the trees has been deposited with Himachal Pradesh Forest Department, where as 206 trees has been saved by project proponent. Against stage II &III MOEF has accorded the Forest Clearance along with the felling approval of 630 No. of trees which is yet to be undertaken by the project proponent.
	c. The status of compensatory afforestation, if any.  d. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	c. Compensatory Afforestation of 38 Ha. Against Stage-I has been achieved so far. Compliance status of said activity received from DFO Kinnaur is same as reported vide compliance status of June 2011 vide letter no HPPCL/IKHEP/Env.R&R-4/Vol-VII/2011-1968-70 dated 02.06.11. In lieu of CA against 17.6857 hect. of Forest Land Rs 1,19,57,406/- has been deposited with HP Forest Department vide letter No. HPPCL/IKHEP/E&RR-IV-V0l/2010-11-11410-13 dated 31/03/2011 36 Ha of land under CA. As per the previous compliance conveyed, for carried out the CA (for stage II &III) funds were diverted to Rampur circle and now the same has been reverted back to Kinnaur area as per the directions of committee constituted by Hon'ble NGT and DFO Kinnaur has conveyed the project proponent that CA over 25ha. will be carried in this financial year in Jangi and Lippa area of Kinnaur.
11	The status of clear felling in non	Since it is a runoff river (R-O-R) scheme
	forest areas (such as submergence	no submergence is involved thereof.
	area of reservoir approach road) if	
	any, with quantitative information.	
12	Status of construction:-	

	a ) Date of commencement	a. Date of commencement 9.04.2009 for Stage-
	(actual and/ or planned)	I. and 12 .11.2010 for Stage II &III.
	<b>b</b> ) Date of completion (actual and/ or	
	Planned)	b. Stage-I, March. 2016. (As Mechanical spinning was carried out in March, 2016 and the commercial production will be started in June 2016). Stage-II&III March2018 (Due to pending litigation in NGT no construction activities are being carried out in Stage-II).
13	Reason for delay if the projects is yet to start:	Due to torrential rains and cloud burst incident during the month of June 2013., and blockade of NH-22and various approach roads to Project site at various places (Urni, IPS old HT Road) in Kinnaur from last two years ie. 2013-14 & 2014-15 Construction works of Integrated Kashang HEP Stage –I is complete and the testing of various components is undergoing generation shall start during June. 2016. As far as stage - II is concerned due to pending litigation against Environmental Clearance and Forest Clearance case of Stage II & III at NGT the work of IKHEP Stage II could not be started.

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### TEST REPORT

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Addroni		Rashang trythe Electric Project (ASIEP)  P.O. Reckong Pen Triof Kintop		Date of Receipt	110 Dec 2016
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		30 AM - E 31 AM	Duration 3	41(4)	
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		ENT AIR QUALITY -	MEAD POWER	MANAGE AND CONTRACT	
S.No.		RAMETERS.	1	ways T	erdabetorya-to
1			L.	MITS	RESULTS
		ton an PM (mg/m/)		190	40,4
2		ter as PM - (ug/m²)		60	12.3
(A)	Sulphur Disxide	26 A6 805 (mg/51))		80	11:2
(4)	Writingen Dioxed	es as NO ( pg/n/)		80	15.3
5	Carbon Monocio	de as CO (ng/m²) .		1.0	No
-0	Ammania as NH	a (pig/mi)	4	00	22
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Kemark	ti :	Mr. Heju - Ene i Complies	r)010 A581		65
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HEF &	Ver	STLIERS/12/03/75	F88900000000000000000000000000000000000	III IMOVINE DESMINE
Wind:	of mordering B speed 3 1 King at Air Tamp U	Wind Wind	ion (24ms) direction (Morth We	et to South East
	AW	SIERT AIR QUALITY - NEAR BR	TUNNEL - INTAKE	
s.No.		PARAMETERS	LIMITS	RESULTS
1	Particulate Ma	(locas Pater (up/m²)	100	58.1
2	Participate Ma	thir as PNs c (ng/ni)}	50	16.3
3.	Sulphur Did kid	es as SB <sub>2</sub> (µg/m))	60	11,0
ń	Nitrogen Dioxi	doc as RO <sub>2</sub> (p.g/m <sup>3</sup> ).	30	1913
5	Curbon Idenox	ide as CO (µg/m/)	4.8	0414
6	Ammonia as N	Ha (μg/m²)	400	20,3
Sampl	ling and Analys	is carried out as per IS : 5182		
Equip	ments Details: ments Details ored by	Make Aero Vironment Model No. RDS 9000, Make Ecotech Model No. AAS 127 Mr. Silva Ganesty - Env. Execu Mr. Raju - Env. Field Assi	Titve	
Remain	ks	Complies		16 2 3
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	AMBII	ENT AIR QUA	LITY - KEAR	POWER	HOUSE CRUSHING	PLANT
S.No.		Para	neters		Limita	Results
(1)	Sustainable Particulary Matter (SPM) ug/mi		Gon	250		
2	Sugnar Blaxides as \$0; 102 mg		80	10.2		
N.	Mode	n Dioxides as	NC (ag/m²)		80	16.6
Sampli	ng and A	nalysis carri	ed out as per	15 : 518	2	
Equipm	ents De				81.	
Equipm	ients Det	ails Mi	del No RBB 9 ika Ecotech odel No NAS 1			
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#### TEST REPORT

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	goond 2 9 for eat Air Tamp		West die	(tion) North West 5	n Rooth East
	AMB	IENT AIR QUALITY - NE	AR IPS TUN	NET - BANKI AITT V	GE
5 Nn		PARAMETERS	1	LIMITS	RESULTS
I	Particulato	Matter as PM ( cognition)		100	52.6
2	Particulate	Particulate Matter as PW <sub>1</sub> (ug/m²)		60	12.4
2	Bullmar Dis	Bulpour Dioxides as \$6 <sub>7</sub> (ug/m))		50	10.5
4	Nitragen 5)	hxides as MO <sub>2</sub> (µg)m <sup>2</sup> )		50	16.8
(5)	Casson Mo	oxide as CU (µg/m²)		4.0	3801
Đ	Anymonia a	NH <sub>V</sub> (μg/m <sup>3</sup> )	1	400	24
Sampl	ling and Ana	lysis carried out as per l	S : 5182		
Equipments Details: Make Acro Viront Model No. RDR 900 Bquipments Details: Make Ecotech Model No. AAS 12 Monitored by 1 Mr. Siza Ganesh - Mr. Raja - Env. F			00. 27 Env Execu	tive	
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#### TEST REPORT

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S.No.			Parameters		Limits	Results
£	Зикран	ided Par	Coulose Martin (SPM) p	yzmi i	690	208
2	Soletia	Diaxide	es as SC; (yep·m²)		80	14/4
3:	Nitrope	a Diaxid	es as NO: (µg/m²)		80	18:5
Sampli	ng and A	nalysis	carried out as per IS:	518	2	
	tents Det	AND PROPERTY.	Make   Aero Vironio Model No. RDS 9000 Make   Ecotech   Model No. AAS 127			
Monitored by Mr. Biya Danesti -			Mr. Biya Danesti - E Mr. Raju - Eng. Piel			
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7		A	We yes		To respect	- A.v.
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## DRIVAING WATER - AT INTAKE AREA

3 No.		Methods	Desirable Limits As Per IS 19500	Results
	State (normalis)	88H3 35200	151	1000
	252 p	-	Agreeable	Adoption
W i	Torse		Agreeable	(Indicated)
- 3	Lichigha states	APAA 2130E	5	888
- 13	=H	APHA 45000	6,5-8,5	7.020483
8	Total Falances as CaCC (e.g.L)	APPHA 2040C	380	2408
	Mine he mading(A)	<b>АРНА 350СВ</b>	9.3	38455
9.	Chlorides as Of (mgst.)	APHA-4500B	250	3/03
9.	Beardua free chlorine (mg.	APHA:45000	0.2	. 247
1.0	Circle and soficial inspires	APPA 25400	500	80
Tex	Cuts for as Cut (mgs.)	APHA 2556B	75	8.0
882	Mugnerous as Mg (eq.()	APHA 1500B	30	1-18 -
13	Copper as On Imple!	APHA 3500B	0.05	Not Delete
951	Montariase as Mn (mg.1)	APINA SEVIE	0.1	Not Desected
tu.	Suite state so Sittlemen	APHA 4500E	200	3411
18	Mitchia ou NO (reg/1)	APRA 44000	45	- 1
3.2	Floor do as = [mg/L]	APRA 4500	1.0	7

Checked by A 4 15 12 15

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## TESTRUPORT

and the second	HCC Limited	(NORTHWELLERS)	000 244 1005
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		Date of Reporting	Table 66(d), 2018
D. F. Bre	1734 E-HZ L-1200268855		

DRINKING WATER - AT INTAKE AREA

S-No.		Methods	Desirable Limits As Per IS 10500	Results
	Process Completed to Condition	WHEE ES2001	0.001	3211
14	Marina as his streets)		0.007	Not Cotingfed
	Collinson as Oxidengers	WHO C-3500	0.01	Hot Trejuched
-11	lifement ar Sections 5.1	WF69-3500	0.01	Had Disterted
22	Atsoric at An (orgil )	ARES 3500B	0.01	\$1
	Candinas (A) (mg/t-)		0.05	1034
14 14 16 16	testarEt (mg/L)	APHA MODE	0.05	Not Detected
MD	Zinc as 2 - phoths	APIN 3500B	5	Not Detected
31	Community as Contings (i.e.	APH BERRE	0.05	felf
36	Miketal Till (mg/L)	TE'	0.01	Net
311	Baron as Bringst 5	APHA 45008	1.0	KG//
20	Alumini an Es Al (mg/L)	APEA 35006	0.03	Not Detected
511	Time Assistanty as Catto, (mg/L)	APHA 232311	209	26
	Packades (right)	AP-14 2520B	Absent	Absent
32	Total Colifornia		Should be absent	Absent
	F Gilli	100	Should be absent	Absent

Sample Collected by

Mr. Siva Gallett - Eriv. Executive

Remarks: Analysed as per given sample,

March 1

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Authorized by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

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## DRINKING WATER - AT IPS - PANSI VILLAGE

5.80		Methods	Desirable Limits As Per IS 19500	Rosults
1	Cylin (Employments))	APHA 2120G	5	360
	0.2		Agrecable	Adresable
2	Ladic		Agreeable	Agronable
31	Talled System	APH6.71300	5	560
*	nt.	APHA 4500B	6.548.5	7/34
16	Title Halfolden as Cotto (1923)	APHA 23400	300	92.1
90	100 as Fe (mg/L)	APHA 3500B	0.3	196
8.	Countries as Ch (mod.)	APHA 4500B	250	9.6
911	Residual free chlorine (high)	APHA 45000	0.2	1202
363	Associated collectings.	APHA 2540C	500	68
.15	Claration as Cla (mg/L)	AFHA 3500B	75	39.3
52	May residn as Ma (mg/L)	APHA 3500B	30	1.35
(3)	Copper as Sit (mg/L)	APHA 3508B	0.05	And Datasted
14	Wangsteep as Mn Jorg/Li	ARHA 35509	0.1	Not Detected
15	Sulphotes 85 30x (xep)1 x	APNA 450UE	200	6.8
70%	Militare as NO. (mg/L)	APHA (5559)	45	0.3
10	Firefice as F (mg/L)	APHA 45000	1,0	(fee

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#### TEST REPORT

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	<ul> <li>Hamor a Franco (L'alto)</li> </ul>	Date of Feet or real	tion in the
70.050p.	STUENCE TOWNER	N	

# DRINKING WATER - AT IPS - PANGI VILLAGE

No.	Parlameter	Methods	Destrable Limits As Per IS 10300	Resolts
10	Phononic Compounds ConvOH (Mph 1	FPH: \$530D	0.601	SNAC
	Mercury in the eventually		0.001	Not Details
	Contourne as Col (may/2)	AFHA JBDD.	0.01	Mist Defecte
93	Februarius Soutewalth	APTIA 3500	0.01	Not burecte
3	House in Fig (right)	APHA 3580B	0.01	Hot Dates to
#	filandese Cit (mg/L)		0.05	2
24	Kuidiga Fit (mgat.)	NO145 EE/OFR	0.95	8111
75	Zinc as Ze (mg/L)	APHA 35008	5	
6	Contemporary and Continuence	APIKA 3500B	0.05	Not Details
ī i	Mineral Divinegals		0.01	Not Detecto
¥ į	floran as B (mg/L)	APHA 4500B	1.0	22.1
W.	Aluminum sa Al (mg/L)	APPA SSCOB	1930	Nil
(K)	Total Airchnite as CaCO (mg/L)	AFFA 2120B	0.03	2(1)
18 6	Postcides (rughi)	APHA 2320B	200	(3/3/6
	Note Conform	HETTH 2320B	Absent	Absent
	E 13011		Should be absent	Absort
	Collected by 19. Man.	11-7	Should be absent	Absent

Remarks: Analysed as per given sample

Checken by A Store

15/12/15

Authorized by:

Approved Laboratory by MoEF, CHSAS 18001 and ISO 9001

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Perform was all exchange come multi-certaining better taken come system are promoteure.

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## TEST REPORT

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libbinsa	Kindham Hydro Etyatric Pharmach (EP) P (0 Koscom) Paris (Der Kham) P	Date of Russien	110 Dec Jato
		Date of Reporting	180 Dec 2016
W.S.Bo	37E/EBS-L10 ((2774)		

## DRINKING WATER - AT POWER HOUSE AREA

5 No.		Methods	As Per IS 10500	Results
	260× (1 ± u − 100b)	APER 21200	5	200
	Gride		Agreeable	Aprellable
- 6	<sup>3</sup> hete		Agreeable	Agroombia
100	Tustedity (1470/)	AFEA 21308	5	No
	pHI .	VARIOUS SOOR	6.5-8.5	730
1	lipsal Hardona's as GaCO (mg/L)	APHA 2340C	300	42.1
	from an Tar (engl) 1	APRA 35008	0.3	P(r)
B	Chlorides as Cliffog(L)	APHS 4500B	250	10.2
The same	However free unconnecting as	APHA 4500B	0.2	1/11
	Clisto red strick (mg/L)	APHA 25400	500	102
11	Calcium as Co (mgd/)	APM/ 3500B	7.5	12.€
	Magnesian swift (mg/L)	APHA 3500B1	30	4.8
1	Copsor as Cu (mg/l)	AFFA 3500B	0.85	Not Detected
198	Mandanese au Vin Engré!	АРНА ЗЕСОП	0.1	Not Detected
14	Districtes de 804 mogras.	APHA 1560E	200	8.3
T.C.	Ritrate as ND, pageta	APH1 45395	45	1.4
10	Flacilità de Filmg/L	WHITE \$200D	1.0	Nii

Authorized by Communication

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Tighter consequences are a much temberary and tight contraction and the first distributions.

## TEST REPORT

State William Survey	HCC I missen	Alenear Service	107	15
	P.D. Rack of the Control of Transport (P. P.D. Rack of St. Carlotte, Carlott	Date of become	1390	110
		DINE of Repressing	JET INC	W183
943 / 2sc	新作品的 11 图778 <b>年</b>			

### DRINKING WATER - AT POWER HOUSE AREA

S.No.	Rameter	Methoda	Desirable Limits As Per IS 10500	Results
17	The the Compounds Competing	WINES SEED IN	0:004	384
119	Money's as hig graphs	HE.	0:001	Not Danielled
-8 I	Codmidmes on Engran	APHA: 0500	0.01	Not Diese led
	Silling nas Sching(L)	ARTIA 3360	0.01	3801 Detected
뾽	Avertic ox Andropolis	APPA STORE	0.01	Morganicanid
	Typedras CS (mgd.).		0.05	3311
10 -00	Asset on Philipping	APHA SEDED	0.05	298
200	And as an imply.	APHA 3530H	5	West-Cleosested
24	Chromium as Christiag Li	APPLA 35005	0.05	Wort-Defended
21	Minus Oli (mg/L)		0.01	300
32-	Resen as # (mg/L)	APHA 4500B	1.0	200
27	Animinum as Al (mgil),	AFRA 3500E	0.03	7500
311	form Awart ity as Cucio, in all.	APHA 23205	200	43 £
15	Pastic des (mg/L)	APNA 2820B	Absent	Absent
32	Tidal Confirm	199	Should be absent	Absent
33.	- Cel	115	Should be absent	Abson
- TW	325 L S.V. V V V V		0.4000 (4.000 ) (4.000 ) (4.000 ) (4.000 ) (4.000 )	Vee3.510.552

Sample Collected by the Giva General - Coly Execution

Remarks: Analysed as per given sample.

Checked by : A

18/12/15

Authorized by

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

Section 1. And Attributes and in the Crambabus Estangue Haycom static management are

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## TEST REPORT

With the Contract of	REC Limited	Motor of Sampling	3655 feet 12 11 to
	Restaure in sto-Bonson (registrate) in 10.00 Restaura (No. 1990 Kalena)	trafficial Records	stopped at
	Himothia Fracestics/XIIIV	(Pate of Reporting)	1800 Dog 17
W-3-	\$710E HS 1110 DSB110		

## DRINKING WATER - AT MAIN OFFICE

S len	Parameter	Methods	Destrable Limits As Per IS 16500	Results
	Corul Hard quellog	3FHA-2120	50	360
37.	(24)		Agresable	Skipti e let le
3	Ego.		Agreeable	Kulturation
76	Turk des ZiTÜr	APHS JILLON	35	811
	7937	APPLANTOR.	5.5-8.5	70001
V.	Commission of College (mg/L)	#PHA 2340C	360	8811
	100 33 2 c (log/L)	A7917 3500E	0.3	3341
(1)	Colladidos es VI (mg/L)	APHA ABUDE	258	20.00
10	Residue their shipping (mg.L)	APHA 4500B	0.2	201
13	Disselved solids (mgt.)	APHA 2540C	500	32
22	Calcumatica (mgr.)	APRA 35000	7.5	6
12	Magnessam as kly (mg/L)	APHA 3500B	30	7.
175	Copper as Cormq0.)	APRA 3500B	0.05	Not Detunted
13	Paligareso de Virginia.	APEA 3500B	0.1	Net Derestor
15	Eurotistes as SOJ (mg/s)	APERA 4550F	200	10
16	Notesto de 190 congres	APPLA SEUGE	45	110
35	T(0) 16 15 F (0)9/L)	APHA (STOD)	1.0	100

Checked by A St. 18/18/15

Authorized by Correlation

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TEST REPORT

	HGC Emilen	There are not	1010000	20,035
	For heart were byear. Proceedings, the process of the control of t	bare at live .	900-58	
		but of Essertim	THE DOI:	alm
30	f-none exposes			

DRINKING WATER + AT MAIN OFFICE

		St. Table and Mark	A THUR	
S Na.	- Parameter	Methods	Descrable Comis Ac Per IS 10500	Results
	President Compose to Jan Children	VENE 00000	0.001	12=
	Morning as Agricing (		0.001	Hot Owtested
1,799	Carlo - a Carlo (no)	A===3500	0.01	Nat Detected
1100	Selent # 18: 00 (no.75)	X≥14 = 3600	0.01	Stat telescont
38	Western 38/A) (A)(A)(A)	45000 35000	0.01	Light Trelle had
	Committee Control Charles		0.05	14.1
-7	Lendan Fill Haguer	AREN BEORE	0.05	1511
98	čimi (s Zn.smg(z))	499-1035008	5	Ket Dansen
od7/	Connected as Crining as	00HA 35088	0.05	Not Delected
27	Winger ⊇i) (mgc. )	70	0.01	ŤÚ.
-11	floron each (mp/())	W2554.4500B	1:0	1011
911	Asmurusim as At ImaAg	APRIA 3500B	0.03	N/d
30	Tetal Alvant IIV on CutO (mg/L)	AFEH AL 20208	260	9
2.1	Restrictes (mp.L:	APH4 23508	Absent	Aguest
48	Latel Coliforn	1-	Should be absent	Absent
31	(E dan)		Should be absent	ASSET

Sample Collected by St. Siva Gancer - Eng Executive

Remarks: Analysed as per given sample.

Skecked by :

Authorized by

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## TEST REPORT

	stry HGC Lynsted	the at I making	Miller Des. 1996
(indigenous	Forther project Machine Persons Marie P Fig. 7 in 1 (2007) Old Removal	Date of Receipt	415 Dec. 2010
1001 No.	ENLINE STEELSTEELS	Date of Gebourge	Oren Alta

	DRINKING WATER - AT	PANGI NALHA A	T STREAM WATER	
S-Nu.	Parameter	Methods	Desirable Limits As Pei 1S 10500	Results
. 181	Elyan (Hazdin uises)	APHA 21000	5	Nat.
12	UNESS		Agreeable	Agreemble
2.	Tanks	111	Agreeable	Kureleunite
1.5	Testion system	APRIA 21080	9	NI T
30	521	APHA 43mp	6.5-8.5	7.22
16	Total Hardways as Cacos seging	APHA 73400	300	36
	Irina as Em (mg/L)	42HA 3609B	0.3	789
) E	Other design Changle	APHA 4900B	250	800
10	Residual free coloning (high)	APHA 4500R	0.2	
TO:	Disserved solute (mg/L)	APHA 25400	500	Mili
15	Communics Earling/L:	APHA 35008	75	164
(2)	Vignesium sa My (myr.	APHA 2500B	30	2.6
13	November an Conceague	APHA SECOE	0.05	1.0
16:	Traggerso ex Margaga	APHA SSUED		Not Detected
16.13	Sutohales as BOx (mgn.)	APHA 4500E	0.1	Not Detected
+	Nitrata as NOv (regri )	APHA 4500E	200	204
17	Funnda as Filmgill)		45	0.06
	The state of the s	APHA 45UST	1.0	100

Checked by 18/12/15

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### DEST REPORT

Amen't remain	HCCstimiten	Date lical architeg.	1.382003611	June
A Higgs	Carlomers to Expect Appetition (Carlomers)	Date of Surregt	frem.	
7.	P.O. Archard No. Old Plenag Handolf a Probabilities of	Bale of Separting	BON BE	3500
HEE/272	SELENS CONTROL			

# BRINKING WATER - AT PANGLNALHA AT STREAM WATER

5 No.	Parameter	Methods	Desirable Limits As Per IS 18500	Results
3196	FRANCE Compounds C. H. CH. (1981)	APRA 55000	0.001	Mill
1708	Mercury, in the (mgAL)	100	0.001	Not Detected
72500	Chamille is Cd (mg/L)	APHA 3500	0.01	Not Descript
1131	Setender har De (mg/L)	APHA 5500	0:01	Not Date led
300	About at Trimpty	APHA D5950	6.01	Not Lorentee
5201	Cyanide as Ctd (rings)		0.05	NO.
4	Loader Firegolj	APRIA SEROB	0.05	7
25	Zimas Ze LingaLi	APHA 3500B	5	Not Dotested
7.0	Chromocolus Co 5 (mg/L)	AFHA 3500B	0.05	Not freteched
27	Mineras O I (mg/L)	111	0.01	tion he seeme
38	Boron and Img(b)	APHA 45006	1.0	Nil
230	Amounter as 41 (mg/L)	APHA SECCE	0.03	No
30	Total Alkaboty as CaCO (mg/1)	APHA 2320B	200	32.7
31	Pesticides (cip/L)	XPHA 23206	Absent	Absent
3.1	Total Courses		Should be absent	Absent
33	5,001	1422	Should be absent	Sheen
Saul .	Other transport of the contract of the contrac			1225

Sample Collected by : Alt. Site Garlest - Fny. Executive

Remarks: Analysed as por given sample.

Checked by A 51-18/12/15

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and the probability was a self-

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#### LEST REPORT

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Semen	ptible with y HGC Liented	AND STREET	Date of Somethy	007 Ope 1015
A didate	Husbang Institution of Proceedings of Procedings of Proceding	1915/1917	THE PARTY OF THE PARTY.	SHP 000 X015
REE N	STREET TO NO.			
	WASTE WATER - FROM	OFFICERS ME	SS-RECKONG PED	
S.No.	Parameter	the Hearls	As per APPCB/CPCB Limits	Results
¥	10 M	APRA 45305	5.5-9.6	7.62
2	Title State and Solids (mg/L)	6044 75400	200	100
3	Off A Greater (mg/L)	APH4 55235	10	9890
4	Chemical Davish Bensad (mg/L)	APH'S \$222E	250	42.5
6	Biological Cologon Demand 3 Says at 271 (1 (mgs.))	APHA 52105	36	12
		APHA =5005	1.0	140

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Authorised by

## TEST REPORT

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7000	ettalisesperio i Electi		Signa of Residence	trible, and
Addes	FiftRess results from 52	3. Krimonii 2002	Date of Mountains	100 Die 2011
PEF	\$10,7500 (1,500)	0.1		
	WASTE WATER - FROM WO	RKERS CAMPIC	DEFICERS GAMP - INTA	(KE
S.No.	Parameter	Methods	As per APPCB/CPCB	Results
: ::	))04	4)*HW 4500B	5.5-9.0	6.1
9	Total Suspended Solids -	6PHA 2540D	700	-44
*	Till Crease(mg/L)	APHA 9528B	010	10
Æ	Chemical Oxygen Demand (high)	APHA \$2208	250	78.2
\$6:	3.0 (2.0) Oxypen Demand 3 (3.1) at 27.10 (103.2)	APHA \$210B	30	12 AM
30	75% Readost Chibrine	APHA 4500B	1.0	(6)))
(amp	ng and Analysis carried out as p	er APHA		- / 1
an ph	repriected by Mr. Burn Ga	coss - Env. Ecc	scutive	1000000
1000	A 15 1		7000	

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001 (bitlate along statements) and ISO 9001

# TEST REPORT

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3 <b>3</b> ami	Office states	HEC I mited		Date of Employing	to this
Andre	lis:	Regung by an a con- Province of the con- rection of the land of	THEORETE !		100 pag 201
REF	(dec	\$11/E00 < (202) 0	H:		
	WASTE WATE	R - FROM WORKE	RS CAMP/OFF	CERS CAMP - POWER	HOUSE
S No.	į-a)	ameter	Methods	As per Appendences	Results
Ť	10747		APHA 45008	5 5 - 9 8	7.83
8	Talin Usaneen	sd Selids (mall)	APH/, 2840D	200	73.5
<u> </u>	On & Greasein	ig/l.)	APHA 55208	10	1.0
ŧ.	Castrick Okyg	en Denland (night)	APIGA 52205	250	60.5
9)	Bongs Oxagen at 27 12 mg/g	Demand 3 days	APHA 57108	30	10
6	Total Security Chi	nine	APHA:46008	1.0	No
ampi	ing and Analysi	s carried out as po	с АРНА		-
ample	regarde by	Mr Senson	stan - Emp Ésea	th(Use)	
umpil	led by	18/12/15		Authorised by:	

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9801

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#### TEST REPORT

Name of the Indianaly		Date of Sampling	26 CO. C. 20 11
entresa.	Radius (type Exchir Poper -Like En) P.O. Rock (2) For Old Kinner	Date of Second	310 Dec 2013
10.77.75.74.4	Handon at Program 172 of G	Bate of Report no	18:-Dec. 2018
REP No.	SWIZENSHEEELITEKS	22	

# WASTE WATER - FROM SEDIMENTATION TANK - BATCHING PLANT - POWER HOUSE

5.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
1	ph	AREA:45068	5,5 = 9, 0	5,93
9	Total Inspended Strict impli-	APTIA: 25180	200	-85
33	On & Grease(mgn.)	APHA 6520B	10	9-H
4	Chemisal Oxygen Domand (ng)L)	APHA 52208	250	104.8
9	Biological Oxygen Desires 3 days at 27° C (eq.(.)	ÁPHÁ 52108	30	:28
Ö	Total Residual Colomba	APHA 4500B	1:0	366

Sampling and Analysis sarried out as per APHA

Dample collected by

Mr. Siva Sanesh - Env. Evecutive

Compiled by

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Authorised by.

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#### TEST REPORT

None at the tedanty	HGC Limited	Date of Sampling	000 Dec	3013
Address	Karaning Pytho Electric Project - 100 (Eth.) P.O. Reckners - are Livet, Krimani	tate al Rosept	to Dic	3001
	Heracon, Predesty 172157	Elete of Reposting	1870 Block	2011)
RELITE	DINEAS TO SETS			

# WASTE WATER - FROM SEDIMENTATION TANK - BATCHING PLANT - INTAKE

5.Na:	Parameter	Methods	As per APPGBICPCB Limits	Results
12	11世	APHA 4500B	5.5-9.0	7.64
38	Lotal Supposited Solids (mg. ).	APHA: 2530()	200	86
ŝ	On a Bresse(mgrL):	APHA 55263	10	17.38
4)	Chemical Oxygen Demand (ing/L)	APHA 5220B	250	92 8
9.	Editoria Congen Demand 3 days 41 E7 C (mgs.)	AP+(A 5210T	34	26
Đ.	Total Residual Chkeling	APHA 4605E	1.0	700

Sampling and Analysis carried out as per APHA

Sample collected by Mr. Stee Gal

1000

Mr. Stan Passach - Env. Executive

Compiled by

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Lange of the Authorised by:

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# IEST REPORT

Spring of the contract	y HQU Limited	Date of Harrison	CONTRACTOR
Kantonia.	Performance of the English of the Performance of the English of th	Dide of Recept	timbse Ista
	Himathat Pio es N 322 (497)	trate of expension	(#P Dec. 20)
REL'NO	OTHER DESIGNATION		

# WASTE WATER - FROM SEDIMENTATION TANK - CRUSHING PLANT - POWER HOUSE

S.No	Pasametes	Methods	As per APPCRICPCR	Results
	pet	APHA 460/b	S. 5 - 9. 0	(F) 10
1	Finite is approximated that $\phi_{\rm eff} (\gamma_{\rm eff} \gamma_{\rm eff})$	AFRA ZSUD	200	496
3	Otris Greaso(mg/L)	APHA 5580B	10	1.6
40	Chamical Daygon Demand (mg/L)	AFHA 52208	250	na y
SÉ.	Biological Doyen Derived Tidays and Fr Comput.	APNA 52100	30	26
5.	Total Resident Chloring	APMA ASTOR	1.0	140

Sampling and Analysis cerried out as per APHA

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# TEST REPORT

Name of Act Into Co.		Date of Samuel	we per just
Sale nessy	Conformation Explicitly Special Control of the Conformation Conf	Date of Receipt	TAN PRODUCES
		Bate of Reporting	1209 15076 (2013)
HE Me	\$11 (F.F.S.E.) (SEE		

# WASTE WATER - FROM SEDIMENTATION TANK - CRUSHING PLANT - INTAKE

S.No.	Parameter	Methods	As per APPCB)CPCB Limits	Results
1	311	APHA 注500年	5, 5 - 9, 0	7:23
8	Total Supported Solids (m.±4)	REMALESCE:	200	767
3	CV & Grease(my/L)	62HA-657/П	to	22
#	Chomical Coygen Demand (mg/r)	АРна э22ив	250	110.4
<u>¥</u>	Biological Coygen Demostry 3 chys. At 27** Ching Li	APRA 52108	36	2.8
W	Total Residual Sakonic	APRA HEODE	1.0	10000

Sampling and Analysis carried out as per APHA

Sparple sallected by

Mi\_ Miya Gamesh - Ens Executive

Compiled by

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Authorised by:

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Approved Laboratory by MoEF, OHSAS 18881 and ISO 9001

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#### TEST REPORT

frame units industry	IRCC Limites	(5de of Sampling	200 Just 2011
	Australia (1, do Excosa Biopel (1, 6 b) (1)	Salue Recent	
foliares	P.O. Rosseria Peru Dast, Burnativ Himacho 19 Mosty 172307	Cinte or Reporting	turning, and
184 = 141	517 (2162-117207-01171)		

#### NOISE MONITORING REPORT

	CONTRACTOR OF	Day		161	Night	
S,No.	Location	Time	Levels in Ley (dBA)	Time	Levels in Leg (dBA)	
T	500 624 DG Set - Lord for A0500513 Workshop HIVE	10.10 om	73.6	10 00 pm	655 F	
-11	30 KV= DG Set- Log to A050G432 Main Store	16.20 am	30.2	10.05 pm	635	
	320 KVA DG Sel Ling No A0560607 BR Intabe	10:35 am	####	10:10 pm	57.0	
33	30 KVA DC Set - Leg No AC\$00634 Main Office	10.45 am	12.000	118-20 \$m	8302	
5	\$20 KVA DG Spt - Log No A0500386 Power rigure MAT	40.55 p(c)	:72:0	110:25 pm	(6.7. 6)	
CECB	Limits	75	dea	70	dBA	

Sampling is carried out as per Standard methods

Equipment Details

(0.000 - 0)

Make Cloust Technologics Model No. SLM 210

Conitored by

Mr. Riva Ganesh - Eng. Executive

Remarks

Same et

Complled by:

18/12/15

Authorised by:

Approved Laboratory by MoEF, OHSAS 18801 and ISO 9001

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# TEST REPORT

Managara - salada,	HCE Lenvirold	Date of Gales	Addison 2155
WdBague	Radiang Hydro Electic May 2 in Milesty, P.O. Bridstang, Prop. Data Medium		
	Funcichal Falderin 17210)	Date of Hepothing	761 Files: 2015:
RHE SW	STAYERS 1,12012-016 15		

NOISE MONITORING REPORT

Legation	Day		Night	
REMADOWOOD.	Time	Levels in Leg (dBA)	Time	Levels in
625 Fire DG Set - Log Ne Adherent Preser House Core sg Ptant	1,72,038 2005	79.3	10 SE nin	40.1
SSD KVA DR Set - Lbg No A0505578 fetake Crushing Praet	175 PK Seri	73 0	10.25 pm	88.7
125 A A DG Set Leg No. AC500045 Stores Intake	17,25,000	72.6	10.55 (m.	65.7

CPCE (Im	its	75 d	BA	70 d	на
TAUS SAUS	20025 PS Twonel	13.5% ám	73.5	11:15 981	67.5
17006	00222 Workshop tetake 574 DG Set - Leg No	1 (40 am	752.0	(EE) (EE) (EE) (EE)	86.4

1.40 atm

Sampling is carried out as per Standard methods.

250 FVA DG Set - Leg No.

Equipment Details

Make Quest Technologies

Model No. SLK 215

Monitored by

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S.No.

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Mr. Siva Gamesh - Ery Evecydiye

Remarks

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# TEST REPORT

Name of the inclusive	HCC Limited		Date of Sampang	65 Dec. 201	
NADATORESS	Kashang Hydio (KHEP), 2 () Ro	Electric Project of	Date of Receipt	11" Dec. 2016	
Addieses	Det Zerman		Date of Reporting	18" Dec, 2015	
Field (vo	STLE-ISA-12011/15		Time of Sampling	2.30 pm	
	STACK	MONITORING F	REPORT	110-2-3230-9	
Contain 0.5 Set			Stock Height, to	5.8	
Fire! Used	Eleset		Stack Diameter, m	0.15	
Control Equipment			C/s Area im	0.0377	
	Flo	w Characterist	les		
Ambient Temp, -C	P.0	Velocity,	nt/s	14.96	
Stack Temp_RC	221	Flow sate	Flow sate, Nm <sup>2</sup> /hr		
	En	nissions Detail	s		
Particulate matter, mg	(Nie)	59.5		115	
Salphur dioxide, mg/Ni	m†	47.2	CPCB Standards	800	
Oxides of Nitrogen, ma	i/Nm <sup>2</sup>	92.4		800	
Sampling and Analys	is carried out	ps per IS:1125.	5		
Equipment Details :	Aera vironm Model No. SE	ant			
Monitored by	Mt. Siva G	enesh - Env e - Env. Field As	xecutive		
Remarks	All values		the limits as ner CP	CP COEF	
1	0.400			SAL LANGE	

Authorized by

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#### TEST REPORT

Name of the Industry   HCC Limited		HCC Limited Date of Sac		e of Sampling	20% Már, 20%
Address P.O.Rec		Kashang Hydro-Electry, Project i	KHEPT Dat	e of Receipt	24" Mar, 2016
		P.O. Reckong Pop. Dist. Krimmur Himachail Pradesh-172107		e of Reporting	314 Mar, 2036
REF N	o o	STL/EHS/024015/16			
Wind s	d monitoring ( speed: 3.1 Kms at Air Lemp. 2	hr Wins	tion 20hrs Distriction	North West to 5	outh East
	AMB	IENT AIR QUALITY - NEAR	POWER HOU	SE MAT TUNNEL	
S.Na.	p	ARAMETERS	LIMIT	s	RESULTS
1	Particulate Ma	ofter as PM is Lug(m²)	100		48.8
×	Particulate Ma	itter as PM - {pgbir/}	60		13.4

Sampling and Analysis carried out as por IS 5182

Equipments Details Make Acce Monument Model No. EDS 9860

Gillplan Drivides as SO (paper)

Militagea (movide), as 1900 (majore)

Carton Monosofo as COmprior's

Administration of the control of the

Equipments Details Make 1 00 texts Model 140 AAB 127

Monitored by the Bronivana Projety Tay Executive

Mr. Dage - Env. Field Asol

Remarks Complies

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Compiled by

Authorised by:

Approved Laboratory by MoEE, OHSAS 18001 and ISO 9001

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Website www.startechiabs.com E-mod control or questino blate, com, startechlobs@gmail.com

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#### TEST REPORT

		TEST RE	POR		
Name	of the Industry	HCC Limited		Date of Sampling	20 <sup>10</sup> Mar, 2016
Addres		Kashang Hydro-Electric Project (K		Date of Receipt	24 <sup>th</sup> Mar, 2016
Aug e	55	000P O Reckung Peo Dist Kinnau Himachal Pradesh 172107		Date of Reporting	31 Mar. 2016
REF N	D	\$1L/EH\$/C24016/16			
Time o	of manitaring 19	25 AM - 9.25 AM	Durati	on 24hrs	
AUDIN.	speed 3.1 Kms	re-market and the second secon	Wind (	direction North Wes	to South East
Ambie	nt Air Temp 2.				
	AN	IBIENT AIR QUALITY - NEA	RBR	TUNNEL - INTAKE	
S.No.		PARAMETERS		LIMITS	RESULTS
18	Particulate Ma	tter as PM <sub>sii</sub> (µg/m²)		100	63.3
2	Particulate Ma	tter as PM/s (j/g/m³)		60	17.3
3	Sulphur Dioxid	tes an 50Σ (μg/m²)		80	11.4
4	Mitragen, Dieza	dus us NO (pipmi)		11.0	15.0
98	Carbon Moens	ido as CO (pg/m²)		4.0	Mil
-Ai	Ammonda iii 14	307 (V-92103)		400	27.
Sampl	ing and Analys	ts carried out as per 19 - 51	112		
Equipe	ments Details	Make Row Vasament Madel Inc. (CDD 9900			
Equipments Dotaits Make Ecotoch					
Model No. AAS 127 Manitered by : Mr. Srinivana Reddy - Env. Ex Mr. Itaju : Env. Field Aust			ecutive		
Remar	ks	Complies			(FEET)
Compi	led by	CLU JUNG	A	Kc. van Ho	

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Website: www.startechlabs.com/E-mon.nimbaliu/go/startechlabs.com, glarbechlabs@gmail.com

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#### TEST REPORT

Name of the Industry	HCC Limited		Date of Sampling	200 Mar. 2016
Transace:	Kästving Hydro Electric Project (KHI	EP),	Date of Receipt	24º Mar, 2016
Address	P & Reckeng Peo, Dist. Kinnaur Himsechal Pradesh-172107		Date of Reporting	31 <sup>±1</sup> Mar., 2016.
REF No	3717FHS/C/4017/16			
Time of monito	ring 9 45 AM - 9 45 AM	Dura	etion 24hrs.	
Wind speed: 3-2 Kins : hi		Wine	disection North W	est to South East
William Company of the William	W. 20 109 14 101			

Ambient Air Temp. 22.2 C

#### AMBIENT AIR QUALITY - NEAR POWER HOUSE CRUSHING PLANT

S.No.	Parameters	Limits	Results
84	Suspended Particulate Matter (SPM) µg/m²	600	262
72	Sulphur Dioxides as SO: (jig/m²)	80	10.3
3	Mitrogen Digxides as NO <sub>2</sub> (pq/m²)	.08	15.5

Sampling and Analysis carried out as per (S : 5182

Equipments Details: Make: Aero Vironment

Madel Na: RDS 9000:

Equipments Details Make Ecotech

Model No. AAS 127

Monitored by ... Mr. Srinivasa Reddy - Env. Executive

Mr. Raju - Env. Field Asst.

Remarks

Complies

Checked by

Authorised by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name	of the industry	HGC Limited		Date of Sampling	21 Har, 201
Addre	e.e	Kashang Hydro-Elector: Pr P.O Reckong Pec.Dist: Kin		Date of Receipt	28m Mar, 90 to
made g		Himachal Pradesh-172107		Date of Reporting	31 <sup>-1</sup> Mar. 261
REF No. \$11/EHS/C24018/39					
ON THE RESIDENCE OF		20 AM - 9 20 AM	Duration	24hrs	
	speed 3.25ms nt.Air Temp 23		Wind der	ection : North West	to South East
	AMBIE	NT AIR QUALITY - NE	AR IPS TUN	NEL - PANGI VILL	AGE
S.No.	P	ARAMETERS		LIMITS	RESULTS
£	Particulate Ma	tter as Pth <sub>14</sub> (µg/m³)		100	63.3
2	Particulate Ma	tter as PM <sub>2.1</sub> (µg/m³)		68	13:3
3	Sulptiur Dioxid	les as SO <sub>2</sub> (µg/m²)		80	10.5
å:	Nitrogen Diaxi	des as NO <sub>2</sub> (µg/m³)		80	\$15.5
5	Carbon Monex	ide as CO (µg/m²)		4.0	Nil
6	Ammonia as N	H <sub>3</sub> {µg/m²}		400	20
Sampl	ing and Analys	is carried out as per l	S : 5182		
Equipr	ments Details; ments Details	Make Aero Viron Model Ne RDS 99 Make Ecotech Model No AAS 12	00. 17		
	ored by	Mr Srinivasa Redo Mr Raju - Env F		ecutive	
Remar	ks	Complies			4.5
Commi	led by	5/03/16	4	Zanohy uthorised by:	9E \\

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There 26/014 European Id No. 11/07 Type 10 Argon in Codlege, Marientapina Hydrochied. 500,050 Telegopine BENA Tol. 1 65 All-23/15/000 (13/01)505 (46775000 1 mail: specific startectic person

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#### TEST REPORT

		1251 KL	POK!		
Rame : Industr	50 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CC Limited		Date of Sampling	214 Mar. 2016
Kashang Hyd			Hydro-Elector Project (KHEP)		24" Mar, 2016
Addres		D Reckong Peo Dist Kinciau nachai Pradash 172107		Date of Reporting	31* Mar. 2016
REF No: STL/EHS/624619/16					
Time of monitoring 9 35 AM - 9 35 AM		Dur	ation 24hrs	10000	
Wind sp	peed 3.2 Kma	s: / br.	3090	d direction North W	est to South Eas
Ambien	t Air Temp 7	73.3/G			
	AMBIE	NT AIR QUALITY - NE	AR INT	AKE CRUSHING PLA	NT
S.No.		Parameters		Limits	Results
1	Supposted	Particulate Midter (CPM	) papa	500	233
2	Sulptur Dis	ulphu Dissides as 50) (mpm)		100	10.0
3	Nifrogen Di	restor, as IDA (prome)		ž. du	14.4
Sampli	ng and Analy	rtis cacted out as per-	10, 511	12	
Equipe	ienis Details				
Equipments Details Model No. 1701-19 Model No. 1701-19 Model No. 1701-19					
Mositored by 1 Mr. Smallyana Holdy bla Rapa 1 ms 1 m		tity - Er			
Remark	(S	Complies			11-5-
	1 112	r Livery		S. S. San Jan.	
Checke	d by	Alexander		Authorised by:	No Tues S

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# TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21 <sup>st</sup> Mar, 2016
Address	Kashang Hydro-Electric Project (KHEP), P.O. Reckong Peo, Dist. Kinnaur	Date of Receipt	24th Mar, 2016
1000000000	Himachal Pradesh 172107	Date of Reporting	31% Mar, 2016
REF No:	STL/EHS/C24031/16		

#### DRINKING WATER - AT INTAKE AREA

i.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
7	Color (Hazen units)	APHA 2120G	5	Nil
2	Odar		Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable
4	Turbidity (NTU)	APHA 2130B	5	Nit
4	рH	APHA 4500B	6.5-8.5	7.68
# 9	Total Hardness on CaCOs (mg/L)	APHA 2340C	300	22.2
7	hon as to (mg/L)	APHA 3500H	0.3	Nil
9	Gldorides as Cl (mg/L)	APHA 45000.	250	9.3
9	Forsidual free chleann (mg/L)	APBA 4500H	0.2	Nil
10)	Dissolved salids (mg/L)	APROS 29400	500	58
11	Calcrim as Ca (mg/L)	APRA 15000	75	8.6
12	Magnesium as My (mg/L)	APRA 35008	30	1.0
13	Copper as Cu (mg/L)	APHA 35008	0.05	Not Delected
12	Manganese as Mn (mg/L)	APHA 35008	0.1	Not Detected
15	Sulphates as SO <sub>4</sub> (mg/L)	APHA 4500E	200	6.6
16	Nitrate as NO <sub>1</sub> (mg/L)	APHA 4500B	45	10
17	Fluoride as F (mg/L)	APHA 45000	1.0	LIME"

Checked by :

21/03/16

Authorized by:

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21" Mat. 2016
Address	Kashiving Hydro-Electric Project (KHEP), P.O. Restong Pep. Dist. Kinnaur	Date of Receipt	24º Mar, 2016
100000000	Himachial Pradesh 172107	Date of Reporting	34 Mar, 2016
REF No	STL/EHS/C24931/16		

#### DRINKING WATER - AT INTAKE AREA

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
18	Phenolic Compounds CataOH (mg/L)	APHA 55300	0.001	Mil
19	Mercury as Hij (mg/L.)	444	0.001	Not Detected
20	Cadmium as Cd (mg/L)	APHA 3500	0.01	Not Detected
24	Selenium as Ser (mg/L)	APHA 3500	0.01	Not Detected
22	Arsenic as As (mg/L)	APHA 3500B	0.01	Nil
2.1	Gyanide as CN (mg/L)		0.05	Nil
24	Lend as Ph (mg/L)	APHA 3500B	- 0.05	Not Detected
20	Zinc as Zn (nig/L)	APHA 3500B	5	Not Detroted
201	Chromum as Cr 5 (mg/L)	APHA 3500B	0.05	Nil
27	Mineral Oil (mg/L)		0.01	Mit
211	Boron as N (mg/L)	APHA 4500B	1.0	Nil
29	Aluminium as Al (1998.)	APHA 3500B	0.03	Not Detected
30	Total Alkalinity as Cacos (mg/L)	APHA 2320B	200	23.3
347	Posticidos (mg/L)	AF91A 2020B	Absent	Absent
32	Total Coliforn	00	Should be absent	Absent
330	E_Colr	(44)	Should be absent	Absent

Sample Collected by

Mr. Srinivasa Reddy - Env. Executive

Remarks: Analysed as per given sample.

Checked by

3/10/16

Authorized by: To

# W 101 M

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21 Mar. 2016
Katalianan	Kashang Hydro-Flectric Project (KHEP). P.O Redoord Pear Dist. Kirmaur	Date of Receipt	24th Mar. 2016
Address	Himachal Pradesh 172107	Date of Reporting	31+ Mar. 2016
REF No	ST1/EHS/024032/16		

#### DRINKING WATER - AT IPS - PANGI VILLAGE

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
100	Color (Hazen units)	APHA 2120C	5	(NI)
2	()do)	The state of the s	Agreeable	Agreeable
3	Taste.	14.	Agreeable	Agreeable
4	Torbidity (NTU)	APHA 2130B	5	NI)
70	přt	APHA 4500B	6.5-8.5	7.11
111	Intal Hontress as CaCO <sub>3</sub> (mg/L)	APHA 2340C	300	33.6
17	tren as the (must )	APHA 3500B	0.3	1911
10	Chlandes as GL (night)	APITA 4500H	250	6,6
(400)	Residual free chlorine (mg/L)	APHA-4506R	0.2	Nil
411	Desorved solids (mg/L)	APPLA POMIC	500	76
1.1	Calcium as Ca (mg/L)	APTIA 35B0H	75	7/7
12	Magnesium as Mg (mg/L).	APDA 3500E	30	1.0
14	Coppet as Co (mg/L)	APNA 3500B	0.05	Not beforeled
14	Mangamese as Mn (mg/L)	APHA 3500B	0.1	Not Detected
1.0	Sulphates as SO <sub>4</sub> (mg/L)	APHA 4500E	266	3.3
18	Nitrate us NO <sub>3</sub> (mg/L)	APHA 4500B	45	0.06
17	Fluoride as F (mg/L)	APHA 4500D	1.0	Nit

Checked by :

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Authorized by:

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## TEST REPORT

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Value of the Industry	HCC Limited	Date of Sampling	21-1 Mar. 2016
Address	Kasteng Hydro-Electric Project (KHEP) P.O.Reckono Peo, Dist. Kinnauri	Date of Receipt	241 Mar. 2016
= =	. Himachal Pradesh-172107	Date of Reporting	31 <sup>at</sup> Mar., 2016
REF No	STL/EHS/C24032/16		

#### DRINKING WATER - AT IPS - PANGI VILLAGE

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
18	Phenolic Compounds C <sub>6</sub> H <sub>5</sub> OH (mg/L)	APHA 5530D	0.601	NII
19	Mercury as Hg (mg/L)	22	0.091	Not Detected
:20	Cadmium as Cd (mg/L)	APHA 3500	0.01	Not Detected
21:	Selenium as Se. [mg/L]	APHA 3500	0.01	Not Detected
322	Arsenic as As (mg/L)	APHA 35008	0.01	Not Detected
23	Cyanide as CN (mg/L)	: ::#H	0.05	Nil
24	Leodas Ph (mg/L)	APHA 3500B	0.05	Nil
75	Zincias Zir (mgft)	APHA 3500B	5	Not Detected
26.	Chronounces Cr 25 (mg/L)	APHA-35008	0.05	Not Detected
27	Mineral Old Img8 1	-00	0.01	Nit
32B	Boren as 0 (mg/t)	ACHA SHIGH	1:0	Nil
20	Alumnium as Al (mgll.)	APBA:35000	0.03	NII
300	Total Alkalinity as CaCO2 (mg/L)	APHA 2320B	200	35.5
31	Pesticides (nig/L)	APHA 2320B	Absent	Absent
32	Lotal Coliforn	2000	Should be absent	Absent
33	E Coli	386	Should be absent	Absent

Sample Collected by

Mr. Srinivasa Reddy - Env. Executive

Remarks: Analysed as per given sample.

Checked by :

3/03/18

Authorized by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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# TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21" Mar. 2016
Address	Kashing Hydro-Electric Project (KHEP) P.O. Reckung Peo, Dist. Kirinsur	Date of Recoipt 24th Mar, 2	24 <sup>th</sup> Mar, 2016
MANUFERS.	Himachal Fradesh-1721()/	Date of Reporting	31" Mar, 2016
REE No.	STL/EHS/C24033/16		1/10

## DRINKING WATER - AT POWER HOUSE AREA

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
1	Color (Hazzin units)	APHA 2120C	5	Nil
2	Odor		Agreeable	Agreeable
3	Taste		Agreeable	Agreeable
1	Tarisdily (NTU)	APHA 24308	5	Nil
5	pli	APTIA 4500B	6.5-8.5	7.13
W.	Total Hardness as GaGOs (mgft)	WEAR CHARGO	300	48.2
7.	Jone as Tellmept)	24.510 F	0.3	19.11
8	Chlorides as Ching(L)	XPID// 4500B	250	16.3
90	Residual for Chlorine (night)	APRIA 1500B	0.2	Nil
10	Developed solids (mg/L)	766BAC 5729.HC	590	10.1
U	Calcum as Ca (mg/L)	APHA 3500H	75	17.1
12	Magnesium as Mg (mg/L)	B008E ATPIA	30	4.8
13	Copportus Gu (regil.)	APHA 3500B	0.05	Not Delected
14	Manganeso as Mn (mg/L)	APHA 3500B	0.1	Not Detected
15	Sulphates as SO <sub>x</sub> (mg/L)	APHA 4500E	200	4:4
16	Nitrate as NO <sub>3</sub> (mg/L)	APHA 4500B	45	1.0
17	Fluoride as F (mg/L)	APHA-4500D	1.0	Nil .

Checked by

Charles 3/105/16

Authorized by 200

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21 <sup>st</sup> Mar. 2016
Address	Kashang Hydro-Electric Project (KHEP), P.O.Reckong Peo, Dist. Kinnaur	Date of Receipt	24th Mar. 2016
	Himachal Pradesh-172107	Date of Reporting	314 Mar, 2016
REF No	STL/EHS/CZ4033/46		

#### DRINKING WATER - AT POWER HOUSE AREA

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
18	Phenolic Compounds CoHoOH [mg/L]	APHA 5530D	0.001	Nil
19	Mercury as Hg (mg/L)	<del>((2</del> )	0.001	Not Detected
20	Cadmium as Cd (mg/L)	APHA 3500	0.01	Not Detected
21	Selenium as Se (mg/L)	APHA 3500	0.01	Not Detected
22	Arsenic as As (mg/L)	APHA 3500B	0.01	Not Detected
23	Cyanide as GN (mg/L)	J=451	0.05	Nil
24	Leadus Ph (mg/l)	APHA 3500B	0.05	Nil
256	Zinc as Zu (rog/L)	APHA 3500B	5	Not Detected
26	Chromoon as the fing#1	APHA 3500B	0.05	Not Detected
27	Minesal Cit (mgd )		0.81	Nil
28	Boroayas II (mg#.)	ALLIA 4500B	1.0	Na
29	Alimmonn as At rough )	APTIA 3500B	0.03	Nit
301	Lotal Alkalinity as Could's (mg/L)	APHA 23208	200	350.5
31	Pesticides (mg/L)	APHA 2320B	Absent	Absent
32	Fotal Cofitorm	(44)	Should be absent	Absent
33	E.Coli	000	Should be absent	Absent

Sample Collected by

Mr. Srinivasa Reddy - Env. Executive

Remarks: Analysed as per given sample.

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Checked by :

3/05/18

Authorized by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	219 Mar. 2010
Address	Kashang Hydru-Electric Project (KHEP),	Date of Receipt 24% M	245 Mar, 2016
Address:	P.O.Reckung Peo, Dist. Kinnaur- Kimachal Pradesh-172107	Date of Reporting	31st Mar, 2016
REF No	STL/EHS/C24034/16		V

#### DRINKING WATER - AT MAIN OFFICE

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
1	Color (Hazen units)	APHA 2120C	5	Nat
2	Odor	240	Agreeable	Agreeable
3	Taste	SHEET	Agreeable	Agrecable
4	Turbidity (NTtl)	APHA 2130B	5	Nil
5	рн	APHA 4500B	6.5-8.5	7.02
6	Total Hardness as CaCO <sub>3</sub> (mg/t.)	APHA 2340C	308	6.2
7	Iron as Fe (mg/L)	APHA 3500B	0.3	Na
6	Chlorides as Ct (mg/L)	APHA 4500B	250	2.2
Ð	Residual free chlorine (mg/L)	APHA 4500B	0.2	Nat
10	Dissolved solids (reg/L)	APHA 254081	500	24
11	Calcium as Ca (mg/L)	APPIA 3500B	75	1.2
12	Magnesium as Mg (mg/L)	APHA 3500B	30	1.004
13	Copper as Cu (mg/L)	APHA 35008	0.05	Not Detected
14	Manganese as Mn (mg/L)	APHA 3500B	0.1	Not Detected
15	Sulphates as SO <sub>4</sub> (mg/L)	APHA 4500E	200	Nil
16	Nitrate as NO <sub>3</sub> (mg/L)	APHA 4500B	45	Nil
17	Throude as F (mg/L)	APHA 4500D	1.0	Nil

Checked by :

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Authorized by: To have

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21st Mar. 2016
	Kashang Hydro-Electric Project (KHEP).	Date of Receipt	24% Mar., 2618
Address	P.O.Reckong Peo, Dist: Kinnaur Hinsachal Praidesh-172107	Date of Reporting	33#Mar. 2010
REL No.	STL/EHS/C24034/16		

# DRINKING WATER - AT MAIN OFFICE

S.No.	Parameter	Methods	Desirable Limits As Per IS 10500	Results
181	Phenois Compounds CaHaOH [mg/L]	APHA 5536D	0.001	Nil
19	Mercury as Hg Intg/L)	199	0.001	Not Detected
20	Cadmium as Cd (mg/L)	APHA.3500	0.01	Not Detected
21	Selenium as Sel (mg/L)	APHA 3580	0.01	Not Detected
2.1	Arsenic as As (mg/L)	APHA 35000	0.01	Not Detected
22	Cyanide as CN (mg/L)	= -	0.05	Mil
24	Least as Pb (mg&)	APRIA SSORE	0.05	(40)
200	Zun: as Zu (ing/L)	ALHIA STORY		flot Detected
200	Chromium ses Ci <sup>-10</sup> (mg/L)	APHA SHOR	0.05	Hot Dehected
100	Mineral Oil (mg/3)		0.01	1611
(1)	from in D (wyth)	80 (16 45000)	1.0	Rid
29	etummum as Al (mg/L)	ACIDA SSORE	0.03	Nil
401	Total Atkalimty as Cardes (ing/C)	APHA_23700	200	10.2
31	Centicides (ang/L)	AP94A 232003	Absent	Absent
32	Tutal Coliforns	Y.C.	Should be absent	Absent
30	4. Coli	222	Should be absent	Absent

Sample Collected by

Mr. Srinivasa Reddy - Env. Executive

Remarks: Analysed as per given sample.

Checked by :

STOSIK

Authorized by: det

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21st Mar. 2016
Address	Kashang Hydro-Electric Project -1 (KHEP).	Date of Receipt	24m Mar. 2016
Muoresa	P.O. Reckerg Peo, Dist. Kinnake Himachal Pradesh-172107	Date of Reporting	31 <sup>st</sup> Mar. 2016
REF No.	\$11/EHS/G24035/16		

#### WASTE WATER - FROM OFFICERS MESS - RECKONG PEO

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
ा	рН	APHA 45008	5, 5 - 9, 0	7:17
9	Table Suspended Solids (mgA.)	APHA 25400	200	AZ
ia l	Fill 4 Finesocymg8.)	APHA 55208	100	7.00
9	Chemical Osygen Demand (ng#.)	62HA 52200	259	38.7
36	Diological Seguen Demand Stays at 27°C (mgC)	M291A 52 1001	20	10
9	Total Residual Chlorine (mg/L)	APHA 4500B	3.0	Nii

Sampling and Analysis carried out as per APHA

Sample collected by:

Mr. Srinivasa Reddy - Env. Executive

Compiled by

Authorised By:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	21 <sup>55</sup> Mar. 2016
Address	Kashang Hydro-Electric Project - 1 (KHEP)  P.O.Reckung Peo, Dist. Kinnaur		240 Mai, 2016
200000000	Himachal Pradesh-172107	Date of Reporting	31" Mar. 2016
REF on	STL/EH8/C24036/16		

# WASTE WATER - FROM WORKERS CAMP/OFFICERS CAMP - INTAKE

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
ĵ	pH	APHA 4500B	5.5-9.0	7.07
W	Total Sacremated Solids (mg/L)	APHA 25400	200	40
9	III & Grease(mgX)	APBA 5520B	10	1.1
ä	(Steinleaf Oxygon Demand paget)	APHAZQZ6ti	250	66.3
N.	Embogical Oxygens (Fernand, 14-19) at 17741 (mg/L)	APTIX 52300	30	20
9	Total Residual Chiotise	APHA 4500B	1,0	Neit

Sampling and Analysis carried out as per APHA

Sample collected by:

Mr. Srinivasa Reddy - Env. Executive

Compiled by

31/63/16

Authorised by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9801

Website: www.startechiabs.com E-mail.rembabu.comstartechbab.com.ut.menthabsspropriat.com

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#### TEST REPORT

Name of the Industry	HCC Limited	Date at Sampling	214 Mar, 2016
Addiess	Rashang Hydro-Electric Project - 1/KHEP): P.O.Reckong Pay, Dell Rinnaur	Date of Receipt	241 Mar, 2016
/20050viiii	Himachai Pradesti-172107.	Date of Reporting	314 Mar, 2015
REF NO	STL/EHS/C24837/510		

# WASTE WATER - FROM WORKERS CAMP/OFFICERS CAMP - POWER HOUSE

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
4))	hg	APHA 4500B	5, 5 - 9, 0	7.8
2	Total Suspended Solids (mg/L)	APHA 25460	200	(50)
(30)	Oil & Grease(mg/L)	APHA 55208	10	1.0
4	Chemical Oxygen Demand (mg/L)	APHA 52200	250	42.8
5	Biological Oxygen Demand 3 days at 27°C(mg/L)	APHA 52100	30	14
6	Total Residual Calorina	APHA 4500B	31.0	Nil

Samuling and Analysis carried out as per APHA

Sample collected by

Mr. Srinivasa Reddy - Env. Executive

Compiled by

Authorised by:

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name of the industry. Address	HCC Limited	Date of Sampling	219 Mar. 2018	
	Kashang Hydro-Elector, Project -1 (KHEP), P.O.Reckong Peo, Dist, nemaur	Date of Recess!	24th Mar. 2016	
	0440582	Himachal Pradesh 172107	Date of Reporting	31º Mar. 2016
	REL No.	STL/EHS/C24038/16		

## WASTE WATER - FROM SEDIMENTATION TANK - BATCHING PLANT - POWER HOUSE

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
1	pH	APHA 45008	5.5-9 0	6 65
2	Total (Suspended Solids (169/K)	APHA 25400	200	27
3	Oil & Course(my/L)	A191A 5520B	10	1.9
4	Chemical Corygon (Ganarol Ingil)	51916 S2200	250	97.6
ä	Production of English and School of	6PHA 52108	30.	24
17	Trical Residual Oblering	APHA 4500B	1.0	141

Sampling and Analysis carried out as per APHA

Sample collected by:

Mr. Srinivasa Reddy - Env. Executive

Compiled by

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	211 Mar. 2016
Address	Kashang Hydro-Electric Project -1 (KHEP), P.O Recking Pen, Dict. Kinnaur	Date of Receipt	24 <sup>th</sup> Mar, 2016
HWUIGES.	Himachal Pradesh 172:07	Date of Reporting	31" Mar / 2016
REF No	STL/EHS/C2403::15		

#### WASTE WATER - FROM SEDIMENTATION TANK - BATCHING PLANT - INTAKE

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
1	pH	APHA 4500B	5.5-9.0	7.01
ż	Telal Saspended Salids (1997)	APHIL 2000)	200	52
190	ОП К латеженніца [	SPTIA SECON	100	6460015
10	Chemical (region Domand (mgd.)	AP10.5.20B	250	26.9
3	Gologi, al. (Syc) (c.) (consider Sylays) al. 27. (Congl.)	APRA 57100	30	24
36	Tutal (Scadinal Chlorine	APHA 4500B	1.0	Nil

Sampling and Analysis carried out as per APHA

Sample collected by

Mr. Srinivasa Reddy - Env. Executive

Compiled by

Authorised by:

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Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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#### TEST REPORT

Name of the Industry	HCC Limited	Date of Sampling	213 Mar. 2016
Address	Kastrang Hydro-Electric Project -1 (KHEP), P.O. Reckurg Peo, Dist, Kinnsur	Date of Receipt	24" Mar, 2016
1,449,046	Himachal Pradesh-172107	Date of Reporting:	319 Mar. 2016
REF No	STL/EHS:024040/16		

#### WASTE WATER - FROM SEDIMENTATION TANK - CRUSHING PLANT - POWER HOUSE

S.No.	Parameter	Methods	As per APPCB/CPCB Limits	Results
1	011	APHA 4500B	5.5-9.0	7.22
85	Tietal Susponded Solida (mg/L)	APHA 2540B	200	36
$\mathfrak{X}$	Oil & Creas Ingre	WP008-552801	10	131
$\widetilde{\mathcal{X}}_{i}$	Chomical Overon Demand (mg/l)	AP18A 5220H	250	52.3
¥.	thological Ceyor o Denouned Adages at 277 Central 1	AP16A 5210B	30	29
6	Folad-Sesidual Chorne	APHA 4500B	1.0	NOT:

Sampling and Analysis carried out as per APHA

Sample collected by:

Mr. Stinivass Reddy - Env. Executive

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#### TEST REPORT

Name of the Industry	HEC Limited	Date of Sampling	21= Mar, 2016
Address	Kashing Hydro Flectric Project -1 (ICHEP) P.O. Reckeng Pool Dist. Kinnau	Date of Receipt	24" Mar. 2016
A00/438	Himachal Pradesti-172107	Date of Reporting	31=4Max, 2016
REF No	S11./EHS/C24041/16		

#### WASTE WATER - FROM SEDIMENTATION TANK - CRUSHING PLANT - INTAKE

S.Na.	Parameter	Methods	As per APPCB/CPCB Limits	Results
±	pH	APHA 45008	5. 5 - 9. 0	7.37
¥	Total Suspended Solids (mg/f)	APHA 29400	200	60
1	Off & Green and C	A1911A 5525011	10	2.0
36:	Chemical Orygen Demand (mgd.)	AV906-302900	250	3.06/6
<b>S</b> :	Biological Exception Demand Adaps at 27° C (page)	A491A 5210B	30	297
46	Total Residual Chlorine	APHA 45008	1.0	N61.

Sampling and Analysis carried out as per APHA

Sample collected by

Mr Srinivasa Reddy - Env. Executive

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Authorised by:

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#### TEST REPORT

	Name of the Industry	HCC Limited	Date of Sampling	20# Mar. 2016	
	Address	Kashang Hydro-Electric Project-1 (KHEP),	Date of Receipt	24" Mai. 2016	
	Address P.O.Recking Peo, Dist. Kinsaur Himadrial Pradesh-172107		Date of Reporting	314 Mar. 2016	
	REF No:	STL/EH8/C24015-024/16			

#### NOISE MONITORING REPORT

S.No	Location		Day	Night.		
		Time	Levels in Leg (dBA)	Time	Levels in Leq (dBA)	
77	500 KVA DG Set - Log No A0500513 Workshop Intake	10.20 am	72.1	10.05 pm	68.5	
2	30 KVA DG Set Log No A0500432 Main Store	10.25 am	72.5	10 15 pm	65.2	
33	320 KVA DG Set - Lug No. A0500G07 BR Intake	10:35 am	73.8	10:20.pm	67.5	
<u>(4</u>	30 KVA DG Set Log No. A0500634 Many Office	30.30 an	2213	10:25-pm	66.5	
6)	320 8VATES Set Log No A0509386 Fower House MAT	10:50 am	73.3	10:35 pm	87.9	
сесе	Limits	15	dBA	70	dBA	

Sampling is carried out as per Standard methods

Equipment Details :

Make : Quest Technologies

Model No: SLM-210

Monitored by

Mr. Srinivasa Reddy - Env. Executive

Remarks

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#### TEST REPORT

Name of the Ind	ustry   HCC Limited	Date of Sampling	28" Mar. 2016
Address	Plashang Hydro Electric Project -1 (KHEP) 17 O Peckong Peo, Dist Kingaur	Date of Receipt	24" Mas 2016
The state of the s	Himschaf Pradesh-172107	Date of Reporting	31 Mar 2016
REF No	511 FHS/024020-029/16		

## NOISE MONITORING REPORT

S.No.	Location	D	ay	Night		
		Time	Levels in Leg (dBA)	Time	Levels in Leg (dBA)	
ß	825 KVA DG Sul - Log No. A0500269 Power House Constring Plant	10:55 am	74.1	10 40 pm	65.9	
7	500 KVA DG Sel - Log No. A0500578 Intirke Crushing Plant	11.05 am	74:0	10:45 pm	65.5	
W	125 Kyr. Dr. Set Frag No Alsonosti Circus Intake	13,36,400	75.7	10.59 pm	66.7	
99.	250 KWA 100 (art - Corp.No X0500523 FWork Grop Tutako	11.29 am	79/9	11 05 pm	07/6	
100.0	329 EVA UG Set Log Ro 80500635 BS Trionel	0525.50	745.00	11-10 p(g)	65.8	
PCH	Limits	75	dBA	70	dBA	

Sampling is carried out as per Standard methods

Equipment Details :

Make | Quest Technologies

Mode: No: SLM 210

Monitored by

Mr. Srinivasa Reddy - Env. Executive

Remarks

Complies

Compiled by:

Authorised by:

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Website www.startechlabs.com E-mail (ambabu.g@stanechlabs.com startechlabs@gmoil/com

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#### TEST REPORT

Name of the Industry	HCC Limited		Date of Sampling	20° Mar, 2016	
Address	Kashang Hydro: Electric Project -1 (KHEP), P.O. Reckong Peo, Dist: Kinnaur Himachal Pradesh-172107		Sate of Receipt	24º Mar, 2616	
100/033			Date of Reporting	31# Mar. 2016	
Rel No	STLEHS/C240	30/16	Time of Sampling	2.30 pm	
	STACK M	ONITORING R	EPORT		
7etalls	D G Set×500 KVA Log NoJZ800513		Stack Height, m	3.0	
oel Used	Diesel	200	Stack Diameter, m	0.45	
Control Equipment	Nil		C/s Area, m?	0.0177	
	Flow	Characterist	ics	V-1	
Ambient Temp, ®8	19.0	Velocity.	mils	11.3	
Stock Temp, 90	1928	Flow rate	e Nin' (lije 455		
	Em	issions Detail	is		
Porticulate matter, me	phine	46.7		1.036	
Sulphur do-sule, nogéhia (		46.6	CPC45 Standards	8815	
Orides of Aldrogen, negligic		900.0		800	
Sampling and Analys	as carried out a	s per I5:1125	5		

Made: No: SEA 90

Monitored by

Mr. Srinivasa Reddy - Env. Executive

Mr. Raju - Env. Field Asst.

Remarks

All values are well with in the limits as per CPCB/MoEF

Nation and Au per Consent issued

Checked by

Authorized by :

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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No. FSH-F (Z)39/2010-ARC-VIII- 15939 Directorate of Fisheries, Himachal Pradesh.

From

The Director-cum-Warden of Fisheries, Himachal Pradesh.

To

The General Manager, Integrated Kashang HEP. HPPCL, Kinfed Bhawan, Reckong Peo, District –Kinnaur(HP)

Dated Bilaspur-174001 the,

12/8

Subject: -

Integrated Kashang HEP(243 MW): Furnishing of Physical and Financial Progress/Utilization Certificate against payment made for Fisheries Development Fund.

Sic.

I invite a reference of your letter No. HPPCL/(IK)E&F(K-1)

(Vol-XII)/2014-15-3269-70 dated 12.08.2015 regarding subject cited above.

In this context, it is intimated that an amount of Rs.1,55,665/- has been utilized on the purchase of farm equipments to trout fish farm, Sangla. The following equipments have been purchased and installed at the farm:-

352815

Sr No	Description	Quantity	Amount
01	Hand Nets	10 Nos	9,400/-
02	Hatchery Trays	40 Nos	47,080/-
03	Start Feed Tanks	05 Nos	99,185/-
	Total	-5	1,55,665/-

Utilization Certificate of above stated amount is enclosed

herewith for kind information and record, please.

Encl : As above.

Yours faithfully,

THE

(Gurcharan Singh) Director-cum-Warden of Fisheries, Himachal Pradesh, Bilaspur.

> E-mail: fisheries-hp@nic.in Tel/Fax: 01978-224068

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SIM | Pa A TITU

F.No.5-47/2014 Wt. (31st Macting) Government of lacan Ministry of Environment, Forests & Climate Change White Division

6" Floor, Vayu Wing Indira Paryayaran Bhawan Jur Bug Road, Aligani New Delbi-110003 Dated: 62 .12.2014.

The Paluciand Secretary (Forests). Department of Forests, Government of Himsel al Pradesh, Tallend, Shimis-17,1891.

Minutes of the 31" Meeting of Standing Committee of NEWL.

Sin

During the 31st Merting of Standing Committee of NBWL held on 129-13th August 2014 under the chairmanship of Houble balanster of State (Independent Charge) for Environment, Porests and Climate Change, the following proposals pertaining to your State were considered. The relevant portion of the decision taken in respect of the proposals is reproduced below:

Proposas of 3d/s 1 .5. Walia (5d/s Sangrah Limestone Mine-lease area 8.0555 ha) and M/s Bhootparhi ... imestone Mins lease area 32.57 ha) disti. Sirmovir, Himachal Prodesh. The proposed sites are 8.5 and 8.75 km from the Renukaji Wildlife Sanctuary.

Proposats of Mis V.K. Walla (191/s Sangrah Limestone Mine-lease area 8,0555 ha) distr. Strmoute, Himach at Pracesh. The proposed sites are 8.5 from the Rentiku Wildlife Sanctuary

Both the proposals were taken up tograher for discussion.

The Member Se retary briefed the Committee regarding the proposale. The representative of State Government of Flanackal Pradesh mentioned that these proposals involve limestone mine for hels Bheotmarkt Eimestone mine of lease area 32,57 ha and Mis Sangrah Limestone Mine of lease wea 8.0555 ha. It was also informed that the mine sites are located about 8,5 kms from the ba indary of Kenuka Wildlife Sanctuary. Check ESZ status please.

After discussion, considering that the mines are situated for away from the Remika Dam and sanctuary, the Standing Committee recommended the proposals subject to the condition that 2% of the project cost shell be deposited as miligation measures (conservation and management of wealth of the Protects Lurea.

Departed for expansion of Kashlog Limestons unlating project (3.3 MTPA to 5.5. 28/1 MTPA) at village's Kushloy, Mangu, Patri, Chola, Oyana, Rasyr and Sangol Dist., Solan Elimetkal Produck.

The Member Sect nary brisfed the Committee regarding the proposal. The representative wifing State Government of Financial Pradesic mentioned that the proposal was

Could 2

62 aspargitatiof Kitchli g. Equestone mining project of villages Kashlog, Mangu. Patti, Chola, Council Range and Care is an democr Solor. The mining area to 1,20 km from Magathal Wildlife Supruary, and 8.75. In from Octophat Conservation Reserve the also mentioned that Copyrtuges, of itima, all Prodess had proposed an accessastive consect to kins around the Morallia saus warders promise doublest abunity the Salas river.

is using of the same.

After the curries of the Standing Committee recommended the proposal subject to the condition that ZW oF is inspect sist shall be deposited as missisten in astress conservation. and majorationists of a Danfe of the Frederica dreat The propert geographs shall also take businggroup integrates a tegristed for the Busine worden and think shall mounter the state of . hipperions and rederit economicasures, it and when required for more assing the coolegical

- Tehnil Acki, 1) ste Solan Hat.
- Proposal for a quasion of Clinkerisation unit (1.8 MERA to 2.6 MERA) at vitt Rauct and Limeston. Mining (\$5 MIPA to 7.6 MIPs), at all. Eachlog. Monga and Poli-
  - Darlaghar Co isec arton Reserve
  - Proposal for , 8, 452-74 Cilmientration Plant of Ms Ambiga Cements Ltd., incated at village Rains, PO Garlaghus, Tehsil Arki, District Solan, Hapachal Prodesis. The proposed pen osal is 3.96 km from Majorbal Wadlife Selections and 7.00 km from
- Proposal for expansion of existing cometa plant of olds Ambula Cement Ltd., (2.8 MTPA to Let MTPA suppers tocated at 18th, Sub, 2O Duchashar, Jehin, Arki, Disa,

Solan A.B.

The above my spenish three proposition were taken up to gather for discussion.

The Ageough Secretary believed the Committee regarding the proposals. The representance of the State Government of Himcona. Products and other the representances of the aser aganemican ad that these proposess were for expansion of Contentsation and and Longstone Abuing a 40 cise you expansion of Cement Liant. The proposed site is 1.20 km and 3-95 km covey from : dajackal Williaje Spletuary and that the Darlayhat Conservation Reserve is & 28 km jeam the me day of we and Tilling from the clinker will ...

on. "vi by the world ift warden after review."

After divers four the Signaling Committee recommended the propositis subject to the consistent that 1863 that promit cast upill be deposited its marginion measures (conservation and reductionary and ealthrie or the Project of Area at victors for periodic, and markithan annual. mortioning and review of the cellegical impact will be set up by the Hitalia wing of the sain fo with areas and appropriate integration measures will be taken by the project proponents a

Proposal for Mis Jaypee Hongonal reporting ungrecontation of chaker capacity of existing Coment Plant at Bagga and enhancing the production capacity within it existing misse leasehold area of 332 ha; klimachai Pradesh.

" The Menibe Secretory Unisfed the Committee regarding the proposal. The representativ of the State Government informed that the proposed site was 5.550 lines from the boundary of

and the second of the second o

Majathal Sanctuary and 9.9 kms from Bandli Sanctuary. It was informed that no additional area was required for this purpose. After discussion, the Standing Committee recommended the proposal subject to the condition that 2% of the project cost shall be deposited as mitigation measures /conservation and management of wildlife of the Protected Area. The state CWLW shall set up a process of periodic, not exceeding yearly, review of the ecological status/impact of the project in the area and the instructions related to mitigation measures shall be implemented by the project proponent.

 Proposal for integrated Kashang Hydro Electric Power, (IKHEP 243 MW, Stage-I, II, III & IV) Distt., Kinnaur being implemented by the HP Power Corp. Ltd. (The proposed site is 1.5 km from Lippa-Asrang Wildlife Sanctuary)

The Member Secretary briefed the Committee regarding the proposal. The Representative of the State Government of Himachal Pradesh mentioned that the proposed site was 6 km horizontal distance from Lippa-Asrang Wildlife Sanctuary and as informed by the project proponents, the project is being taken up underground and surface activities are limited to construction phase and were of temporary in nature and that the project area is downstream to the Sanctuary. After discussions, the Standing Committee recommended the proposal subject to the condition that 2% of the project cost shall be deposited as mitigation measures (conservation and management of wildlife of the Protected Area

 Proposal for mining project (area 10.25 ha) with production capacity of 54,400 TPA (Khasra No.283/3/1) on river yamuna, distt. Sirmour, Himachal Pradesh by M/s Mahender Singh & Co. (The proposed site is within 8.5 kms from the Simbalwara National Park).

The Member Secretary briefed the Committee regarding the proposal. The representative of the State Government of Himachal Pradesh explained about the project. After discussion, the Standing Committee decided to defer the proposal as the Environment Clearance for the project was still awaited.

 Proposal for construction of 45 MW Rupin Hydro Electric Project in Tehsil Dodra-Kwar, Distt. Shimla, H.P. by M/s Bajrang Power & Ispat ltd.

The Member Secretary briefed the Committee regarding the proposal. The representative of State of Himachal Pradesh mentioned that the proposal involved construction of 45 MW Rupin Hydro Electric Project in Tehsil Dodra-Kwar. The Power House Point and Barrage site is 1,75 km and 6 km away from the Boundary of Govind pashu Vihar Sanctuary/National Park. The Standing Committee desired to seek the opinion of the Chief Wildlife Warden. Uttarakhand on this proposal as the project site was within 10 kms of a Protected Area of

Contd .... /4

Estarakhand. The Chief Wil life Warden, Duarakhand, manifored this he was in agreement with the proposal subject to mpf mestation of a wildlife management plan.

After discussion, the Standing Committee declare that the State of Himselfal-Pradeils, the project proposent have consultation with Wildlife institute of india and Chief Wildlife Warden, Utturakhanu and that the Project Proposent shall fund the wildlife management plan of both Utturakhanu and Amachal Pradeils."

 Proposal for alversion of 0.3524 in of forestiand falling in Majorkat Wildlife Sandpury for drawing water from Pazzena Ehad in favour of Executive Engineer. I&PH Division Ark., District Solan, FLP.

The idember Search by briefed the Committee regarding the proposal. Dr. R. Sukunar desired to know whether FC clearance for the project would be involved or not and moreover, as a twolved drawl of water from the Sanatuary, the proposal required a careful look. The Standing Committee, therefore, decided to defer the matter and in the meantime, to circulate a copy of the proposal to all the members."

The above recommendation(s) are subject to the existing directives of Hon'ble Supresso-Court and provisions of Forests (Conservation) Act, 1980.

Yours faithfully

29,55

5-12-111

Refe Ask Note (Rajasekhar Ratti)
Selentist C/Deputy Director (WL)

#### Copy to:

The Chief Wildlife V arden, Government of Figure Practice, Shanja.

 The AddLPnChief Conservator of Forests, Ministry of Suvironment & Forests, Regional Office (NEZ), Bays No.24-25, Sector 31-A, Dakshigo Marg, Chandigath-160022.

 The Engineering Ch. I. Irrigation cum public health division, US Club, Shirata, Himachai Pradesti.

4. The Joint Secretary, .A. Division, MeEP & CC.

5. The Inspector General of Forests, FC Division, McFF & CC

# *ACULTURAL UNIVERSITY* LUDHIANA

ADMISSION NOTICE

ther to fill up the souts reserved for Terrorist ied, Disabled Persons, Kashmin Migrants and s/Ex-servicemen for admission to B. Tech. (Agril. imme for the academic session 2010-11 from the CET-2010 conducted by the Punjab Technical it and residing in Punjab and Union territory of igbiliy given below:

(al group) or equivalent with at least 45% marks in

e nade strictly on medt in CET conducted by PTU. idates may appear for interview in the office of the incultural Engineering & Tech., PAU, Ludhiana on im along with original certificates/testimonials, their free passport size Photographs. The selected to deposit the fee approximately Rs 31,000 at the to fill up the prescribed application forms available the Add: Director Communication, Centre for International Linkages, by paying Rs. 1000 (cost of Registrar ication form).

#### Public Notice

It is brought to the notice of the general-public that Integrated Kashang Hydro Electric Project (243 MW) of Himachal Pradesh Power Corporation Ltd. at village Pancii, Lippa and Asgang in the District Kinnaur (H.P.) has been accorded. Environmental clearance by the Govt, of India, Ministry of Environment and Forest, Paryavaran Briawan, C.G.O. Complex Lodhio Road, New Delph-110003 vide letter No. J-12011/8 /2007-JA. | dated 16-04-2010. Copies of the clearance letters are available with the H.P State Environment Protection & Pollution Control Board Paryavarar Bhawan, Phase-III, New Shimla-171009 and may also be seen at website of the Ministry of Environment & Forest at www.envfor.nic.in and also at official site of HPPCL at www.hppcl.gov.in.

The Timbare detel 7/06/20/0 General Manager IKHEP, HPPCL

Kinfed Building, R/Peo, Kinnaur

32 Distr. Saharanpur (UP) on behalf of President of India invites applications on the date as shown here under from Contractors working with other departments meeting eligibility orders for selection of contractors for issue of tender of

Amount of earnest money for   Cost of tender		Last date	ast date Eligibility Criteria		Date of	Last date
contractor not enlisted with MES		of receipt of Appli- oation	Por MES Enlisted contractors	For other contractors	bender	of tender
Rs. 19,000,00 in the shape of Call Deposit. 'Hecelpt from any Scheduled Sank in favour of CIE.	Sange 0104 Bankers Chaque from any Scheduled Bank in favour of Garrison Engineer (AF) Sarsgwa payable at Air Force Station Sarsgwa/ Saharanpur,	21 Jun. 2010	Class fer exceptive	of MES with regard to having satisfactority completed requisite value works, annual turnover, Working Capital). Fixed Assets stop		As given in tender documents
(AF) Sarsewa, BGB not acceptable Bal 22,000,00 in the shape of Cell Debosit - Receipt - from - eny Scheduled Bank in favour of GE JAP Sarsewa BGB not acceptable.		21 Jun, 2010	Class 'E' , cullagoty 'c'		On at after 22 Jun, 2010	A S
Bs. 20000,00 in the shape of Call bendsif. Receipt from any schapped Bank in favour of GE pAPISS laws, BGB not acceptable.		21 Jun. 2010	Class 'E'		On or after 22Uun, 2010	

grate, Griefial given above may also apply. Accepting Officer may consider such applications in the event of inadequate

DiBankers Cheque towards Cost of lander shall not be considered for Issue of lander.

to enclose necessary documents to prove their eligibility as given above including Adidays for no recovery outstanding. rule applicant shall be refunded the cost of tender. However, contractor may appeal to next higher Engineer Authority application for issue of tender whose decision shall be final and binding and contractor shall not be entitled to

isis, www.mes.gov.in. Full notice of Tendar IAFW-2162 & Ensatment Criteria is available in all offices of MES and also

Sd/- (Simon Paulose) Major, GE/AF Sarsawa.





Intake Struct ad Race Tun hamber, Adid Jersigned Pow ise Complex s MW x 3 units)

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blasting patter being presently of this letter owed and that

er-I. HEP. PCL.

Manager

EP, CL.

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१ष्ट्राजाव एर जन आता ल्य नम् आर्थ सस्तानं त्य अब्रह्म के आप साल में कि संस्व में लोगों का रा विकार करता महला है। में के मार्ची पर सबसे अधिक कि पहले हो मिनी पनी मि 36, प्रतिभूपर 29, जेजनाथ आसिल को का रहा है

# बरम्बन घर लग जाता आय से ज्यादा पैता

34, 36 24, 431 30, 46, 477 26 में अपने महत्त्व देश में उद्देश सरकाषांट 27 विशासपुर 30, हे नेस्पृष क्षी है जा फिर पर्टी दूसरों ' 25 देहरी-24, जेन 29) तलागड़ 28, ताहन ३०: सीतन २०: रिका (प्रस) 11. रामपर 24, रोडर 27, अस्त प्रेरा अंती है। लोगी का लोकल २७, शियला प्राप्ता १५ व नारादेवी विजी में बह बसे हो। बस होमा प्रभावी है। आहे ग्रह्मा । तील्यू को आग्रम् हो गोर्ड अप्रेट का में सराव हो जाने को अस्तिहत निरम के प्रमान के ह हिंदने पेटल ही अपने गंतवा ार बढ़ाना का इस वर्ग 200 ने वसे विकास पहला है। चया हिस्से खरी हो। सही है। जिल्ला के पास क्षे जर वक वेल्य को है। पुरानी पंसी की सरणवद्ध हो के से माराजानकीट में 40 धर्म एता इंटा कर इन के प्रशान पेंग्र ने जार

# हिमाचल प्रदेश पॉवर निगम लिमिट्टेड (मेर्ग मन्द्रार मा सक्तम) गर्कीकृत केंग्रान, राज्येत (गर्कणीका) जीवा कि नीर, दि. व राज्येत केंग्री, ११७७६, ११४००१, ११४००१ सार्वजनिक सूचना

क्रियाचरण को स्थित किया जीता है कि हिमाचल प्रदेश ये वर वर्णकान लिमिटिड द्वारा चना जा रही एकीकृत काशंग जल हर परियोजना 243 मेगावाट ओ कि गांव पांगी, लिया व कर्ष जिला किनार हिमाचल प्रदेश में स्थित है, की भारत क्रिके पर्याक्रिण एवं वन मंत्रालय पर्याक्रक भवन विक्री, काम्पर्शक्ता, लाघो ११४, नई दिल्ली-110003 के वर्ष मार्ड: /12011/81/2007-1A.1 dated 16.04.2010 ार र्णिंग मार्थ-भी खोक्ति प्रदान कर दी गई है। खोक्ति पंत्री की भारतिपया हिमाचल प्रदेश पर्यावरण सुरक्षा एवंम् प्रतृ गाँ विज्ञा परिषद, केज-114, स्र शिमला-17100 है के कार्यलंद में पुलका है तथा पर्वावरंग एवम् वर्ग मञ्जलय की चेचसाई do./www.envfor.nic.in/- तथा हिमाचल प्रदेश पान क्रमारेशक विनिधारिक की बेबमाईट http://www.hbpcl.gov.n प्रदेखी जा सकता है।

महाप्रमुद्धका, रकोक्त करामा कड, विद्युत परियोधा । इसच्यत प्रदेश भोवर प्रारंभीशाम विभिन्त है। Rope four taxe territor

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