



INTEGRATED-KASHANG HYDRO ELECTRIC PROJECT (243 MW)

^{+2nd} Six Monthly Compliance of MoEF&CC

Status Report for the Period April 2018 to Oct .2018

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

Point wise reply:

Sr. No

CAT plan implementation completed on priority basis. Progress of CAT works				
Sr. No	Funds released by the project authority till date	Funds spent by the forest department till date	Details of the engineering works Executed till date	Area covered by carrying for Plantation and no of plants planted.
1	Rs 13.03 cr.	Received UC of Rs.10.4478 Crore/- up to 31 st March 2018. Apart from this amount, Rs. 88,78,12,09/- spent for wildlife management and biodiversity conservation plan. During this quarter Project proponent has deposited Rs. 941.92 lakhs being 2% of the project cost of IKHEP stage –I deposited as special condition imposed by the NBWL while granting Clearance apart from this HP Forest department has approved an APO for the FY 2018-19 amounting to Rs 4,40,300/- copy enclosed as Annex-B	Copy of Nil Progress Conveyed by DFO is enclosed as Annexure-A	Utilization certificate received from HP Forest department up to 31 st March 2018 under various heads i.e. Afforestation over 88 ha., which include Enrichment/ new plantation & Maintenance of Afforestation, NEFT (Herb plantation) & development of nursery over 5 ha. of land and soil and water conservation works on 71 Ha. which includes avalanche control over 8 River /Nalla's and river bank stabilization over 32 ha., 71 ha. of land was utilized for the total soil and moisture conservation work. Whereas No progress is achieved during this period of reporting due to late approval of APO and the physical and financial progress of this sixth month is Nil. Consolidated UC for Financial year 2017-18 i.e. up to 30 th Sept 2017 is copy of the communication conveyed by the

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1.					DFO is enclosed as enclosed as per Annexure-A.
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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 May 2018, and August 2018~~July, 2017~~ at various project sites of IKHEP ~~and the various parameters~~ were analyzed by the HP State pollution control board and various parameters of air water and nose quality i.e.i.e. pH, Colour, taste, Odour, Turbidity TDS, total hardness CaCO₃, Alkalinity as CaCO₃, Chlorides, Residual free chlorine, Ca, Mg, Nitrate, Floride Sulphate, 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 PM₁₀, particulate matter PM_{2.5}, suspended particulate matter Sulphur Dioxide, Nitrogen dioxide, Carbon Mono- oxide & Ammonia as NH₃ but during the reporting period the environmental parameters were also analyzed through external agency on Sept 2018 is also enclosed as Annexure-E.

~~4. were not monitored due to non working season~~

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-by, M/S Patel Engineering, along with facility of ambulance vehicles~~ambulance -vehicles.~~ Time to time medical camps are being organized by the Project proponent in PAA. Copy of the Expenditure made by the M/S Patel Engineering during the reporting period April Oct. 2018~~7~~ to MarchSept. 2018 is enclosed as Annexure-EE 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. 7, 95,37,363,252/- has been disbursed among 352 PAFs.

6. So far, engineering measures, like retaining structures have been raised on the approved /designated dumping sites and as on date create wire / protections works were raised at various locations :-

Power House site = (11,871 +50) Nos.

Intake site. = (351+27) Nos

IPS site = 655 Nos

Power house site = 369 Nos

i.e 12954 nos of create walls were raised at various sites of ~~IKHEP~~ IKHEP during the construction period and after the completion of the construction or prior to issuance of TOC~~Consequent upon the and instruction issued to the Main Contractor for raising additional protection walls before TOC 50 numbers of additional Crate walls near Power House and 27 numbers near Intake and 5 additional crate walls were erected at various dumping sites and once the protection works are, were carried out through Main contractor. Apart from this, in compliance to the Environmental Cleareance Part B: General Condition (iv) and Forest Clearance condition 4and condition No 5 i, ii & iii project proponent had implement the completed and Project Environment cell is also continuously inspecting and implementing the~~

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~~norms as per the outcome of various visits Project proponent suggested remedial measures to the contractors for implementation of the biological treatment to the dumping site filled / completed. of dumping sites of Power House and IPS is is were completed & with~~ plantation and erosion control blanket and site protection at IPS site with 369 No's ~~ofs of~~ crate walls at the toe of the erosion control blanket were carried out .

~~copy of the Protection works done at IPS and Power house sites are attached as Annexure F).~~

~~Details of allocation of funds for different Environment management plan along with utilization of funds is~~Details of allocation of funds for different Environment management plan along with utilization of funds are as under;

- Rs1303.0 lacs against CAT plan
- Rs. 33.67 lakhs against compensatory afforestation(CA) of Stage –I &Rs 119,57,407 against Stage II &III .
- Rs 42.00 Lakhs against ~~Fishries~~Fisheries management.
- 122.37/- lacs under Environment Monitoring to the HPSPCB.
- 941.92 lakhs for Monitoring the Environment

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Provision/ Compliance of EMP and its utilizations

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 Rs1054.93 lakhs has been received from DFO Kinnaur /Forest department till 31.03.2018 and APO amounting to Rs 4.4. lacs were approved for FY 2018-19
2	Implementation of Resettlement & Rehabilitation Plan	300.00 Implementation of Resettlement & Rehabilitation Plan	4200 4359.670	For the implementation of R&R benefits and works / tender awarded to PAFs Contractors including LADA funds deposited with the LADC & other then LADA works
3	Compensatory Afforestation	541.00	Against Stage I,II&III Stage –I Rs 33.66 Stage II&II Rs.119.57 (is already deposited with the Forests Deptt.-)	CA over the 38 Ha against IKHEP Stage –I achieved and against Stage II & III, DFO Kinnaur conveyed the progress of 30 ha out of 36 Ha in the Lippa, Jangi and Asarang is in progress as on date -with an Expenditure or Rs 27,723003,16000/- were incurred as on 31.03.2018.
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	<i>Wildlife Management and Biodiversity Conservation Plan*</i>	100.00*	88.789 941.92 (over and above from EMP)	Utilization Certificate received from DFO wildlife up to 31 st March 2018 where as the approved APO for the FY 2017-18 986038 was reported by the DFO wild life /-.(Cost as met from CAT plan funds) apart from this NBWL while according Clearance imposed a condition of 2% of the project cost as a mandatory stipulation to the project proponent . and project proponent had deposited Rs 941.92 Lakh to CAMPA against IKHEP Stage –I
6	<i>Muck Management Plan</i>	552.00	388.00+ 224.283.32= 671.3275	For Engineering measurers i.e. construction of crate walls/ gabions through contractor. against IKHEP stage –I only. And the reclamation / biological treatment of the dumping site at Power house and IPS were in process and as on date were completed with an expenditure amounting to Rs 283.3224.75 Lacs were disbursed for the same
7	<i>Restoration Plan for Quarry Sites</i>	64.00	0.95	Since no quarrying was carried out from Proposed quarry site. (Rs 0.95 Lacs spent for preparation of mining plan)

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8	<i>Landscape and Restoration Plan</i>	26.00	120.00	Landscape restoration plan is in progress installation of lighting arrangements to enhance the night effect is completed with the Expenditure already inbuilt in the Electrical Contractor Rs. 75 lacs and Rs. 45 Lakhs lacs. has been incurred for providing crash barrier along the power house Road.
9	<i>Health Management Plan</i>	65.00	65.0 (Against IKHEP Stage -I LADA fund had already been disbursed with LADC)	Being implemented through Contractors & Portion of the expenditure of Plan will be met from LADF
10	<i>Provision for Subsidized Fuel*</i>	113.00*	130.35 <u>131.92</u>	Total 8109 <u>8194</u> no. of commercial cylinders amounting to Rs 130.35 lacs were provided to the labourers through contractors, rest of the cost of subsidized fuel will be met from CAT plans
11	<i>Solid Waste Management</i>	228.00	(Rs.706.00Against IKHEP Stage -I& Against Stage II &III 72.00 LADA fund had already been disbursed with LADC)	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	<i>Disaster Management Plan</i>	40.00	20.00+56=76.00	Helipad has been established at Intake site of KHEP Stage –

				I, Rs 56.00 Lacs incurred for Installation of alert system, at control room at power house site and communication
13	<i>Environment Monitoring Plan</i>	124.00	148.37	Rs.124.37 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	<i>Fisheries Development Plan</i>	105.00	42.00 lacs	Rs 42.0 lacs was deposited with directorate of fisheries and utilization of Rs 40.5 has been reported by the Directorate of Fisheries
	<i>TOTAL</i>	5150.60	<u>11081.998205.989</u>	Note : The amount of Sr. 11 of solid waste management <u>only portion earmarked for waste management is included -is not included in the Total Amount not the total amount of LADA ₹.</u>

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7. 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)	Area covered in the Plantation and no. of plants planted till date
Stage -I	33,66,650	20,95,280	38 ha Progress already conveyed vide previous compliance Reports
Stage II & III	Rs1,19,57,406	23,16,000/-	CA against IKHEP Stage I . i.e. 38 ha <u>of</u> Forest land is achieved and DFO Kinnaur has conveyed <u>conveyed</u> a Physical and financial progress of CA Rs 27, 72,300 <u>72,300/-</u> over <u>over</u> the 30 ha against 36 Ha of Stage II & III. for implementation of CA over 30 ha in Jangi and Lippa & Asarang areas and the Physical & financial Progress for the Financial year 201 87-19 <u>8</u> is e <u>nil as conveyed by the DFO</u> <u>copy attached as Annexure -</u> Completed-

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8. Out of the Integrated Kashang HEP - 243 MW share of Rs. 105 lacs, 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 certificate of Rs.40.5 lac has been received from Director cum Warden Fisheries Himachal Pradesh, Copy already attached as Annexure-E in previous report. Project proponent shall monitor the progress achieved on this account after site visit in near future.

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

Year /periods	No of labourers engaged Contractor wise.	Quantum of free fuel supplied or subsidy provided	Financial expenditure incurred in (Rs)
April, 2018 <u>Oct-2017</u>	87 <u>462</u> (Civil Contractor)	102	22050
May Nov. 2018 <u>7</u>	87 <u>(Civil Contractor)</u> 151 <u>(Civil Contractor)</u>	123	23887.5
June, 2018 <u>Dec-2017</u>	86 <u>149</u> (Civil Contractor)	115	27562.5
July, 2018	87 <u>0</u> (Civil Contractor)	115	9187.5
August Feb., 2018	72 <u>0</u> (Civil Contractor)	84	7350
Sept. March, 2018	57 <u>147</u> (Civil Contractor))	104	25725
Total			16,57,625

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

Year /periods	No of labourers checked up Contractor wise	Expenditure incurred on providing medicines	Expenditure incurred on providing other facilities (in Rs)
From April, Oct., 2018 <u>April, 2017 to Sept. 2018</u> (by M/s Patel Ltd.)	April 2017 to Sept, 2018. (Civil Contractor)	83300/- April 2018 to Sept. 2018 <u>448,889 (-, 2018 to March 2018,</u>	1, 41,885 <u>47,880/-</u> (Aprox.) <u>Expenditure for trained medical staff.</u>
Pre medical examination of workers were conducted by medical team comprising of 1 doctor, 2 compounders 2 senior nurses and 1 nurse and 3 attendants and the ambulance vehicles were deployed at the sites with all medical facilities during the construction of IKHEP Stage –I, as far as the construction activities of IKHEP Stage II & III is concerned,			

due to resistance by the villagers of Lippa the construction activities are not being carried out in full swing from Lippa side only the excavation of BR-III is being carried out by M/S Patel Engineering and M/s Patel Engineering had setup a first Aid center at Intake site with a full time Male ~~pharmalist~~pharmacist.- 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 to facilitate and provide medical facility and support for medical treatment of project affected families and as on date Rs 7,63,252/95,373- were reimbursed to 325 beneficiaries.

11. Social welfare measures and other schemes being run for the locals and project affected people enclosed as **Annexure-C**

12. 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	Compliance Made
1.	The representative of the public raised an objection that all the agriculture and Horticulturist of the Sub-division adjoining to underground works has not been indicated in R&R plan (rehabilitation and resettlement) whereas all the agriculture and Horticulturist should have been covered under R&R Plan ?	Gram Panchayat Lippa has been declared as a project affected area of Integrated Kashang HEP, Stage-II & III under R&R Plan.	Due to Pending litigation in the Hon'ble NGT, no activity has started from Lippa side. Project proponent has recommended the entire Lippa & Asarang Panchayat as PAA against Integrated Kashang HEP, Stage-II, III and Stage -IV. Further, Govt of HP has also notified a policy for compensation for damage to crops during construction of hydro projects in HP vide its notification No. MPP(F)10-18/2011 dated 11. July 2011 and project proponent is committed to implement the same.

2.	It is apprehended that all the 15 water sources in the Lappo chak area 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 had inventorized all the springs in the vicinity of LIPPA Asarang, Tokto & Rarang Prior to the start <u>the start</u> of construction i.e. in the Month of May and June <u>and June</u> , 2012 in the presence <u>presence</u> of representatives of concerned y <u>y</u> Villages. Project proponent is committed to carry out the inventorization of all the springs in the vicinity of Lippa and Rarang during the construction and to maintain the records of the same 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. But <u>after the disposal of the due to pending litigation in the appeal filed in Hon'ble</u> NGT, villagers are not cooperating with the Project proponent; no construction activities started from the Lippa side as on date <u>Project propoment is trying to resolved the issues with the villagers of Lippa but as on date</u> As the S status remain same as previous compliance. <u>Status same</u> as already conveyed vide previous compliance. .
3.	Due to blasting in the tunnels it is apprehended that it will cause landslides which have not been indicated in R&R Plan and local people has been cheated.	Controlled blasting will be done and it will be ensured that there is no landslide and no damage to the property of the Government and local residents.	In case of Kashang HEP Stage-I underground excavation is complete. The excavation of Stage II is stopped due to resistance by villagers of village Lippa. Project proponent is committed to carryout

			<p>controlled blasting. Moreover the tunneling activities of Stage- II is across the Mountain and having the rock cover of 500 mtr to 1500 mtr. Status same as already conveyed vide previous compliance. HPPCL has carried out a study on Safety of Public structure due to blasting in tunneling through central Institute of Mining and Fuel Research {Council of Scientific and Industrial Research}. <i>It shows that the magnitude of vibration after 60 m distance is safe but it became insignificant beyond 100m distance from the damage point of View.</i> In one of the HPPCL's project in Kinnaur i.e Shongtong Karcham HEP, HPPCL .</p>
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.	<p>MMMost of the Construction sites are far away from the human habitant and underground. Project proponent is committed to take mitigation measures. Sprinklers at various locations and daily sprinkling at specific periodicity and intervals were /shall be 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 started. Project Proponent had engaged an independent monitoring agency through its main contractor for monitoring</p>

			<p>of Environmental parameters i.e. Air water and noise. Apart from the HP State pollution control Boards. During the Construction period all the parameters were within permissible limits. Despite of adhering all norms within the limits. Govt. of HP, Department of MPP and Power has formulated uniform policy for compensation for damage to crops during the construction of Hydro Electric Projects. On dated 11th July, 2011. Even though in case of any damages occurred to the crops due to project activities project proponent is abided by the Guidelines / Notification issued by the Govt. of HP, Deptt. Of MPP & power time to time and in case of IKHEP Stage-I Project proponent had disbursed Rs. 1.69 crore as compensation to the villagers of Pangi in lieu of Damage to crop where as in case of loses of agriculture crops due to Project activities same practice will be adopted to compensate the losses in Lippa also.</p>
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.	Prior to project execution Environment Impact Assessment report is to be carried out to evaluate the environmental Impact, if any, by the project and

		Government wherein all the aspects have been incorporated.	on the basis of Environmental Impact assessment report Environment Management Plan has to be prepared to mitigate the Impact by the execution of the project, and in case of Integrated Kashang HEP (243 MW), project proponent has got conducted EIA and EMP studies through the Expert team of an 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 is itself a Remedial document i.e. Rehabilitation and Resettlement Plan on the basis of Social Impact. Status same as already conveyed vide previous compliance.
6.	It is apprehended that there will be decrease in yield of fruits and vegetables and increase in unemployment due to construction of project, but there is no mention regarding the provisions of permanent solution for employment.	Employment will be provided to the local people in accordance to the notification of H.P. Government and there will be no adverse effect on vegetable and fruits production.	Govt. of HP, Department of MPP and Power has formulated uniform policy for compensation for damage to crops during the construction of Hydro Electric Projects on dated 11 th July, 2011. 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 visits to the PAA of IKHEP Stage I i.e. village Pangti. During the

			<p>reporting period HPPCL management has deposited Rs 1.69 Crore with the Local administration in lieu of damage to crop compensation 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 side so far.</p>
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7.	Due to construction of tunnel near by Dakchompa place, religious and pristine temple of Guru Padam Sambhav 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.	HPPCL has carried out a study on Safety of Public structure due to blasting in tunneling- through <u>through</u> Central Institute of Mining and Fuel Research {Council of Scientific and Industrial Research}. <i>It shows that the magnitude of vibration after 60 m distance is safe but it became insignificant beyond 100m distance from the damage point of View.</i> In one of the HPPCL's project in Kinnaur i.e Shongtong Karcham HEP, HPPCL since the enstruction <u>sitesconstruction sites</u> of stage II & III are for away i.e. Horizontally as well as vertically Approx 1.00 Km 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 Lappo Ronnam 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 private 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 Kerang Khad 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.	Provision to ensure that 15% water is discharged from the Kerang khad as per H.P. Govt. notification will be kept and as such there will be no adverse impact on the fruits and crops. Regarding the discharge of water of Kerang Khad back in the same Khad is ruled out.	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 awaited and project Environment cell is continuously pursuing the matter telephonically with the IIT Roorkee. Prof. Arun Kumar of IIT Roorkee (HoD Hydrology has conveyed to the Project

			<p>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. which was expected shortly. But due to some technical/ administrative issues the reports has been delayed and project proponent is committed to comply the recommendations of the same 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 resistance of the villagers of Lippa, although petitions has been disposed off and no diversion of water is undertaken yet and 100% of its discharge is flowing through its main course of stream /khad as on date. In case of IKHEP Stage –I , project has been commissioned and project proponent has installed a continuous flow measuring device at intake site of IKHEP Stage-I and 15% water is discharged through it and being monitored by HP State pollution control board and can be checked online through. www.hppcblive.com/ live/ Kkashang</p>
11.	There is a serious problem of flood in Pazzar Nallah adjacent to Kerang Nallah every year which bring lots of debris, stones and silt to the down side. The water of Kerang Khad flushes/ removes	Proponents are aware of this problem and adequate amount for treatment for this problem which is mentioned in CAT plan will be provided. There will be	<p>Most of the Construction sites are far away from the human habitant and underground. Project proponent is committed to take mitigation measures.</p>

	<p>the debris brought by Pazzar Nallah resulting in less damage to adjacent sites at the confluence point. If tunnel is constructed and water is diverted to tunnel from Kerang Khad, then debris, which is brought by Pazzar Nallah will be accumulated on the confluence point of Pazzar Nallah and Kerang Khad. There is no solid solution to this problem only under EIA & EMP only for sake of formality, it is mentioned.</p>	<p>proper water supply after tunnel preparation and there will be no debris accumulation in the area. When there is more debris accumulation there in the Nallah than project proponent will stop plant for two or three days and all water of Kerang Khad will be supplied for removal of debris.</p>	<p>Sprinklers at various locations and daily sprinkling at specific periodicity and intervals were /shall be 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 started. Project Proponent had engaged an independent monitoring agency through its main contractor for monitoring of Environmental parameters i.e. Air water and noise. Apart from the HP State pollution control Boards. During the Construction period all the parameters were within permissible limits. Despite of adhering all norms within the limits. Govt. of HP, Department of MPP and Power has formulated uniform policy for compensation for damage to crops during the construction of Hydro Electric Projects. On dated 11th July, 2011. Even though in case of any damages occurred to the crops due to project activities project proponent is abided by the Guidelines / Notification issued by the Govt. of HP, Deptt. of MPP & power time to time and in case of IKHEP Stage-I Project proponent had disbursed Rs. <u>4.692.71</u> crore as compensation to the villagers of Pangi in lieu of Damage to crop where as in case of losses of agriculture crops due to Project activities same practice will be adopted to</p>
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			compensate the losses in Lippa also.
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 species of the trees to be felled according to schedule of payment of their own department and Project proponent has deposited Rs.1,0854,136/- 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/- & Rs. 1,58,64,073/- 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. Since CA of IKHEP stage II & III has been diverted to Rampur Circle for implementation of 36 ha as intimated by Divisional Forest officer Kinnaur. But as per the direction of NGT

			<p>DFO Kinnaur has re-scheduled the APO and allocated / earmarked 20-30 ha of Forest land in Lippa and Jangi and Compensatory Afforestation (CA of IKHEP Stage II & III) DFO Kinnaur, has submitted the Physical and Financial progress of Rs. 10,14,500/- for advance works RCC Fencing and new plantation during the quarter in lieu of CA over 30 ha (in Lippa and in UF Jangi, 10 ha in C-215 Lippa and 10 ha in UF Asarang Area Annexure-A <u>G</u> during this reporting period no progress is achieved as conveyed by DFO Kinnaur copy enclosed as Annexure -A <u>A</u></p>
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13.	There is no mention about 15-16 water resources falling in the project area in EIA & EMP.	A committee comprising of member of Project Proponent, IPH, revenue 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.	Project proponent is committed to carry out the inventorization of all 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 has already inventorized all the springs in the vicinity of LIPPA, Asarang, Tokto & Rarang, prior to start of Construction i.e. in the
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			<p>month of May and June, 2012 in the presence of representatives of above villages, till date no construction activities could be started from the Lippa side. Since the issue is still due to resistance by the villagers of Lippa even after the disposal of the appeal filed in pending in the Hon'ble NGT . So status remains the same as per the previous compliance status reported.</p>
14.	<p>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.</p>	<p>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.</p>	<p>All the customary & Forest rights of Kinnaur have been settled and well documented in the report ' Forest Settlement Report of Sutlej Valley, Bushahr State Part -I' by HM Glover in the year 1921 and people of the district are enjoying the same, Project proponent is extending forest customary rights 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 30.09.2018+12-2016 Rs. 3,76,40,250/- have been disbursed among 510 families and same practice will be adopted in case of Kashang Stage II &III too and apart from this due to intervention of Hon'ble NGT project proponent had place the entire proposal of FC before</p>

			<p>the affected Panchayats and for the settlement of FRA, State govt had been requested for the for the settlement settlement of Forest Right and requested the state Govt. as per the provisions of law and State Govt. through District administration, and its various FRA Committees trying to settled the FRA claims of Lippa villagers, and on Sept 2018 District Level FRA committee settled two numbers Community claims of Lippa villagers. to conduct the Block Level FRA Committee to settled the FRA Cases pending with them and recommend the same to the district level FRA Committees for final settlement in case of Lippa, where as the residents of Lippa have not Re-submitted the cases after attending the observations from Block level FRA Committee till 30 sept 2017. by giving one or other Excuses.</p>
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.	<p>Most of the Construction sites are far away from the human habitant and underground. Project proponent had carried out the mitigation measures as per the commitment made in the Environmental public Hearing, by sprinklers at various locations by providing sprinkling at specific periodicity and intervals in case of</p>

			IKHEP Stage –I. Project Proponent had engaged an independent monitoring agency through its main contractor for monitoring of Environmental parameters i.e. Air Water and Noise apart from the HP State Pollution Control Boards and during the Construction period all the parameters were within permissible limits. Same practice will be followed in case of IKHEP stage- II when the construction activities will be started.
16.	It has been wrongly indicated in the EIA & EMP that there are 99% Hindu and 1% Buddhist.	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 representatives of the village and if such area is found, the same shall be incorporated in EIA/EMP.	Status remains the same as per the status already conveyed vide previous compliance.
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,

			<p>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 are backbone of state's economy .In case of IKHEP Stage-I , it is visually evident that the life style/living standard of villagers of Pangi is improved. Like prior to start of the construction project activities, majority of the Household were residing in Kachha Houses, whereas, today majority of the houses are Pakka/ RCC, buying/spending capacity of th villagers have improved, number of vehicle in the village is also increased, land holding of the village is also increased as HPPCL has provided/ improved Irrigation facilities. In totality the life style of the villagers has improved after the Project as discussed with the village Numberdar (village Revenue Head). Status same as already conveyed vide previous compliance</p>
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 far so far as reduction of glaciers is concerned.

21.	Is there any provision to provide jobs to every resident of Lippa.	Employment will be provided to the local people in accordance to the notification of H.P. Government.	As per the HP Govt. notification, employment 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 were engaged in HPPCL through work orders / outsource basis and 106 no., 46 no. & 26 no. by its main contractors i.e. M/s HCC and M/s Patel Engineering and M/s 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 Lippa	No comments	Since this is a policy of H.P. Govt. and HPPCL is entity of HP. Govt. and as per the new notification of LADF of

			dated 5 th 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.
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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.	Environmental Management Plan will be strictly implemented and will be regularly monitored by the State Pollution Control Board.	EMP is implemented strictly as per the provisioned of Rs. 5150.51 Lakhs in EMP Rs. 6390.65 8205.989 Lakhs had been exhausted in the implementation
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 plan 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	It is likely to be completed by 2013.	<u>This issue is closed.</u> As far as construction work of Integrated Kashang HEP stage- I is commissioned on March, 2016 and the commercial generation has

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	project?		started from Sept., 2016.
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 106 no., 46 no. & 26 no. with its main contractors i.e. M/s HCC and M/s Patel Engineering and M/s Andritz Hydro respectively and same practice will be 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.	<u>This issue is closed.</u> 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

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			<p>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 <u>There is</u> no question of damage to the pasture of land due to construction of roads. More over it has facilitated the villagers, in their day to day life due to connectivity of approach roads to their Dogri and forest areas and same sequence will follow in Lippa Valley.</p>
6.	<p>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?</p>	<p>The project proponent clarified that the residential colony (Type-I, II) and dispensary will be constructed at village Pangi for Kashang HEP Stage-I.</p>	<p><u>This issue is also closed.</u> Colony for O&M and Police chowky 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</p>

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			declared this area highly vulnerable to landslide/subsidence and no construction is recommended. Rest status remains the same as per the status already conveyed vide previous Compliance Period ending Dec., 2016.
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 damage to structures due to construction activities in IKHEP Stage-I as per the version of LADC.
8.	Water from Kirang Khud 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 all the activities completed in IKHEP Stage-I and Project proponent has complied all the Commitments 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. <u>The metling of the project road is executed through HPPWD on deposition work basis and the contract were awarded to the local contractors and the process of metling of Project road i.e. Pangi Bus stand to zero RD & Zero RD to Brano junction is in progress.</u>
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 with respect to adverse impact on the horticulture and agriculture.	It was clarified by the project proponent that most of the project components are underground and there will be no significant adverse effect on horticulture and agriculture.	Govt. of HP, Department of MPP and Power has formulated uniform policy for compensation for damage to crops during the construction of Hydro Electric Projects on dated 11 th July, 2011. 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 visited the PAA of IKHEP Stage I i.e village Pangti. During the <u>reporting</u> the <u>reporting</u> period on the <u>basis</u> the <u>basis</u> of the recommendation of the Committee project proponent had deposited Rs,1.69 Crore with the local administration in lieu of compensation for damage to crops during the construction of IKHEP Stage-I.

13. Issue of Scientific study has been discussed in length in Para “10 of Environment Public Hearing dated 28.05.20109 at Lipka”

14. 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 its 31st meeting held on 12th & 13th August, 2014 under the Chairmanship of Hon’ble minister of State for Environment Forests and Climate Change Copy of clearances letter has already conveyed in ~~Previous~~ Previous compliance report and the 2 5 of the

[project cost as imposed by the NBWL, i.e 9.42 Crore had deposited with the national CAMPA for the management of Wild life.](#)

15. Copy of news paper cutting of the advertisement has already conveyed in various previous compliance Report

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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 15th 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, Rekong-Peo 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-12011/81/2007-1A.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:

<p>(I) Catchment area Treatment Plan as has been proposed should be completed in 4 years. The plan is given below</p>	<ul style="list-style-type: none"> • 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 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 10.55 crore has received from from DFO Kinnaur, UC / Progress of Rs 88,78,120/- from DFO wildlife, HP Forest Department. • APO of CAT plan for wild life division for the FY 2018-19 is approved as Rs 12,17,500/- • APO of CAT plan for the FY 2018-19 is approved as Rs 4,40,300/-
<p>(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</p>	<ul style="list-style-type: none"> • 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 various Compliance reports i.e. the compliance report of dated 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

	<p>Rehabilitation & Resettlement plan.</p> <ul style="list-style-type: none"> Project proponent is implementing the various R&R Schemes. <p>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 Stat apart from this Project proponent had disbursed the resettlement grant to the eligible land looser as per the R&R plan of HPPCL</p>
(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.	<p>Status same as conveyed in the previous 6th monthly compliance period ending June 2016. Scientific study from a reputed institute for deciding the minimum flow require to be releasing 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 continuously pursuing the matter telephonically with the IIT Roorkee Dr. Arun Kumar HOD Hydrology of IIT Roorkee apprised to the Project proponent that, ' this aspect of Hydrology is 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 may carry out. Since the CEIA report of the Satluj basin is yet not finalized or reveled to the Public domain or project proponent has not received the copy of the same. Moreover Project proponent is committed to release the 15% of the average flow of four consecutive leanest months for</p>

	<p>environmental flow. Since the construction of IKHEP, Stage -I is completed and as per the commitment made by the Project proponent, in previous compliances, project proponent had installed the Continuous flow measuring device in intake for measurement of the 15% e-flow. Which can be verified from www.hppcblive/live/kashang. 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.</p>
<p>(V) As committed during Environmental Public hearing, the project proponent should clear the shoal formed by silt brought by Garang (also known as Pazzar) a left bank tributary of Kerang khad near village Lippa well downstream of the project by either releasing enough downstream discharge during summer months or through other means</p>	<p>Project Proponent is committed to comply all the commitments made during Public hearing. Status of commitment is addressed under Para A of compliance under Public Hearings. Due to pending litigation in the NGT, PAA of Lippa village are not cooperating with the Project proponent. And project proponent is continuously pursuing the matter with the Villagers and taking guidance from the ADB's Environmental Experts 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, but Villagers of Lippa did not allow the ADB mission to even entering the village, however, ADB mission had a meeting with the Pradhan of Lippa along with the two other 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 NGT has already pronounced the Judgment and compliance of the same is underway. Judgment in the duo matters i.e against Environment Clearance and against Forest Clearance was</p>

	<p>Pronounced by the NGT on 28.01.2016 and 4.05.2016. in case of Appeal No 14/2011(T) of the NGT Judgment committee constituted by the Hon'ble NGT recommended/proposed, a plan prepared by Project Proponent amounting to Rs. 1.88 Crores for removal of Shoal formed at the confluence of Kerang & Pezzar Khads in its final report submitted to the Hon'ble NGT. <u>And project proponent had kept the budgetary provisions in the Current financial year too. Copy of the Judgment is available In NGT website www.greentribunal.gov.in</u></p>
(VI) All the equipment which are likely to generate high noise levels is to be fully mollified (noise Reduction measures).	<p>This issue is closed. In case of IKHEP Stage –I condition was fully complied and in case of IKHEP stage II & III this condition will be complied.</p>
(VII) Consolidation and compilation of the 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.	<p>Excavation work of IKHEP Stage-I has completed and the construction works of Stage II & III was not taken up from Lippa side due to litigation pending in the <u>resistance by the villagers of Lippa even after disposal of the appeal in the Hon'ble NGT, hence only as on date</u> 1 No. of dumping site is being used, 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 off loading of muck/debris piled up along the NH-22 by BRO directly down the valley side/powerhouse complex, has badly damaged the gabion walls which were strengthened-repaired <u>/restored</u>. Strengthening works of gabions at Power house and IPS has completed <u>and the biological .-treatment of the said dumping sites with proper geo green blanket and plantation were also completed</u> . The utilization of excavated muck <u>will be utilized in case of IKHEP Stage II & III on the analogy of The Stage –I, were being done as per the approval of the material and as on now</u> where approximately 25 to 30% of the excavated material has been <u>were</u> recycled. Project proponent is encouraging for maximum</p>

	utilization of excavated muck. Process of Biological treatment of the dumping site is in progress through expert contractors having experience in relevant field & the reclamation works of utilized dumping site at Power House and IPS is in progress
(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	Rs. 1,19,57,406/- & Rs. 1,58,64,073/- were deposited against CA and NPV respectively with HPFD and due to un - availability of Forest land in the Kinnaur circle, against CA of IKHEP stage II & III HPFD, had diverted the funds to Rampur circle for Compensatory afforestation of 36 ha as intimated by divisional Forest officer Kinnaur. But as per the intervention of NGT and request of project proponent, regarding afforestation in the Kinnaur area itself of aforesaid agency has re-scheduled the APO and allocated / Ear marked CA over the 30 Ha of land for Compensatory Afforestation (CA of IKHEP Stage II & III) DFO Kinnaur, has <u>conveyed submitted the due to late approval of APO no Physical and Financial progress of Rs. 456300/- were achieved during 6th month Progress of the same is treated Nil. new plantation during the quarter in lieu of CA over 30 ha (in Lippa and in UF Jangi, 10 ha in C-215 Lippa and 10 ha in UF Asarang Area</u> .
(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 diverted.	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 the Director Fisheries for its financial and physical progress. During the reporting period UC/ Physical and financial Progress of Rs 40,81,215/ 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 area. <u>Rest the status remain same as previous compliance report.</u>
(X) The proposed Wildlife Management, Development and Conservation of	Wildlife Management is a part of CAT Plan and has been reported under CAT Plan Head.

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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.	Similarly during the reporting period Divisional Forest Officer, Wildlife Sarahan has implemented on various activities & Rs. 80,09,300/89.95.338/- has been spent by DFO wildlife Sarahan up to March, 2018 ⁷ on various activities with respect to wildlife Management which is one of the component of CAT plan of Integrated Kashang HEP & DFO Wild life has conveyed the physical and financial progress of Approval of APO for the FY 2018-19 amounting to Rs 12,17,500/- and no physical and financial progress were achieved during this 6 th Month due to late approvals of APO. Rs 9,86038 during the financial year 2017-18 as is achieved Annexure-A
(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 st meeting standing Committee of National Board for wildlife held on 12 th - 13 th August 2014 at Indira Paryavaran Bhawan, New Delhi and has recommended the proposal and MOEF Govt of India has conveyed the Clearance Vide its F No.6-47/2014-WL(31 st Meeting) GoI, MoEF&CC dated 03.12.2014 Copy already enclosed as Annexure-EC-III in previous compliance. In compliance to the NBWL's recommendation that the Project proponent has deposited Rs 9.5605 i.e. 2% of the Project cost for Core against integrated Kashang HEP Stage I for the monitoring of .

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Part –B: General Conditions

(I) Adequate free fuel arrangement should be made for the labour forces engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	L.P.G./kerosene oil heaters are being provided to the labour by the contractors and subcontractors of HPPCL. Community kitchen is functional for all and no fuel-wood from forest is being used for the labourer engaged in the construction activities of project, So far, during reporting period i.e., Oct-April 2018 to Sept. 2018 2017 ^{March 2018} , 623 numbers of cylinders (19Kgs/Cylinder) by M/S Patel Engineering , have been provided to the workers besides running a community kitchen/mess at different locations, Since the Construction activities of Stage –I. being implemented by M/S HCC is completed ^{now}
(II) Fuel depot may be opened at the site to provide the fuel (Kerosene/ wood/LPG) Medical facilities as well as recreational facilities should also be provided to the	L.P.G./kerosene oil heaters are being provided to the labour by the contractors and subcontractors of HPPCL. Community kitchen is functional for all and no fuel-wood from forest is being used for the

labours.	<p>labourer engaged in the construction activities of project, So far, during reporting period i.e., April 2018 to Sept. 2018, 62 Oct 2017 to March 2018, 63 numbers of cylinders (19Kgs/Cylinder) by M/S Patel Engineering , have been provided to the workers besides running a community kitchen/mess at different locations, Since the Construction activities of Stage –I. being implemented by M/S HCC is complete now A dispensary has been opened at project site with one Pharmacist and medical aids, at Intake and Power House sites by Ms Patel Engineering and M/s Andritz Hydro Ltd. respectively. Time to time Medical camps were organized by HPPCL in Project affected areas and free medicines distributed. The main executing agency i.e M/s Patel Engineering Ltd. is providing adequate medical and recreational facilities for labourers by providing Television, sports kits etc.</p> <p>During the reporting period, i.e. April 20187 to Sept.20187 expenditure incurred for providing medical facilities, by main contractor i.e. M/s HCC Patel engineering are as under:-</p> <ol style="list-style-type: none"> 1. Compounder and Tr. Medical Staff Expenses Rs.1,47,880-91989 /- 2. Purchasing medicines 83,563900/- <p style="text-align: center;">2.</p>
(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	<p>Prior to the enrollment in the execution activities all, the laboures are thoroughly checked up and after ensuring the complete fitness the labourers are being engaged, Routine/ time to time checkups are being followed up by the Main contractors. All new labourers being enrolled are subjected to medical check-ups</p>
(IV) Restoration of construction area including dumping site of excavated material should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	<p>The muck management proposal included in the EMP which includes engineering and biological measures for stabilization and reclamation of 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 complete except balancing reservoir and the construction works of Stage- II & III not under taken from Lippa side due to litigation pending in the</p>

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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 has been stopped after the completion of excavation work. Since dumping is complete in these dumping sites near power house site and IPS Site. Now all the restoration works of damaged protection works near power house and the engineering measurers/ restoration works of dumping sites at Intake, Power house and IPS have been completed which were damaged by the BRO as on June, 2016.

Power House site = (11,871 +50) Nos.

Intake site. = (351+27) Nos

IPS site = 655 Nos

Power house site = 369 Nos

i.e 12954 nos of create walls were raised at

various sites of IKHEP during the construction period and after the completion of the construction or prior to issuance of TOC. were carried out through Main contractor. Apart from this, in compliance to the Environmental Cleareance Part B: General Condition (iv) and Forest Clearance condition 4 and condition No 5 i, ii & iii project proponent had implement the biological treatment to the dumping site filled / completed. dumping sites of Power House and IPS were completed & plantation and erosion control blanket and site protection at IPS site with 369 No's of crate walls at the toe of the erosion control blanket were carried out .

As on date, 12,872 nos of create walls were constructed at various sites of IKHEP.

Power House site = 11,871 Nos.

Intake site. = 351 Nos

IPS site = 650 Nos

The above mentioned gabion walls have been

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	<p>raised/constructed and now project proponent has started the reclamation of dumping site /biological treatment/measures of the Dumping sites at power House and IPS is in progress through the Contractor having expertise in the releventfield in consultation with HPFD & works is in Progress.</p>
(V) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguards measures	<p>A provision of Rs 51.50 Crore has been kept for implementation of the EMP which includes the cost of implementation of these safeguards. Apart from this 1.5% of the total project cost is also kept as Local Area Development Fund, and a sum of Rs 7.06 crore has already been deposited with the local Area Development authority against Stage-I and process of releasing of next installment is in process against Stage- II & III subject to the outcome of NGT Judgment. 1st installment of LADA amounting to Rs 72.10 lacs has already been deposited with the LADC out of Rs. 7.21 crore. Since the IKHEP is registered as CDM project and revenue earned from the sale of certified emission reduction certificate (CER) 2% of the revenue will also be spent for the community development activities. However, it has been assured by the Management that adequate funds for implementation of EMP shall be made available.</p>
(VI) Six monthly monitoring reports should be submitted to be Ministry and its Regional Office, Chandigarh for review.	<p>Monitoring reports are being submitted regularly. Last report for the period ending March, 20186 was sent vide GM Kashang letter No HPPCL/(/IK)/E&F(K-I)(XVII)/20186-197-5355-61-581213-17-dated 06.0612.20187 (Copy attached as Annexure -CH).(To the Regional office of MOEF Dehradun)</p>
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.	<p>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.</p>
7. The responsibility of implementation of environmental safeguards rests fully with the Himachal Pradesh Power Corporation Ltd. &	<p>Project proponent is abiding by the condition. And for effective implementation of safeguard policies HPPCL has established an Environment cell at</p>

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Government of Himachal Pradesh.	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, Zilla Parishad/ 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. This condition was complied at the time of processing EC clearance and same was conveyed vide previous compliance reports. vide HPPCL/(IK)/E&F(K-I)(XVI/2016-17-1452-58-dated 02.06..2017 .

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 March, 2018 6 was sent vide GM Kashang letter No HPPCL/(IK)/E&F(K-I)(XVIII/2018-19-1213-17- dated 06.06.2018 HPPCL/(IK)/E&F(K- I)(XVI/2016-17-5355-61 dated 06.12.2017 (Copy attached as Annexure -G.H). (To the Regional office of MOEF Dehradun)
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 Kinnar Vs Union of India & Devi Gayan Vs Union of India were disposed off in National Green Tribunal , New Delhi on 28th January, 2016. The judgment against Appeals filed in the NGT against Environment and Forest clearance named 14/2011(T) & 28/2013 have been Pronounced by NGT on 28.01.2016 & 4.05.2016 and the compliance is underway which is available in the official web site of NGT i.e. www.greentribunal.gov.in

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No. 7896
H.P. Forest Department,

Dated Rampur, the 28.11.2018

From : Divisional Forest Officer,
Kinnaur Forest Division at R/Peo.

To: General Manager,
Intergrated Kashang, HEP
Kinfed Building at R/Peo.

Subject: Quarterly progress report regarding CAMPA Scheme.

Sir,

Please refer to Your Office telephonically message dated 26.11.2018 on the subject cited above.

2. The quarterly progress report regarding Intergrated Kashang CAT Plan & CA scheme for the quarter ending 30.06.2018 and 30.09.2018 treated as nil please.



Divisional Forest Officer,
Kinnaur Forest Division at R/Peo

2

APD of CAT Plans for the Year 2018-19

Division/ CAT Plan/ Activity/ Work-wise Details

APO of CAT Plans for the Year 2020-21												
Division/ CAT Plan/ Activity/ Work-wise Details												
Component	Range	Block	Beat	Area	Name of Work	Targets				Financial (Rs.)	Remark	
						Norms	Phy	Unit				
BANKPUR												
KASHANG												
Plantation	Kalpa	Kalpa	Pangl	C-233	Planting	33550	5 Ha.		167700		✓	
Total Raising of NTFP plantation							5 Ha.		167700			
Total Plantation							5 Ha.		167700			
Total Maint. of Enrichment Plantation 2nd												
Plantation 2nd	Moorang	Jangl	Rarang	C-232	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Moorang	Jangl	Rarang	UF Khadra	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Moorang	Jangl	Rarang	UF Thopan	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Moorang	Jangl	Jangl	C-223 a	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Moorang	Jangl	Jangl	C-223 b	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Moorang	Jangl	Lipra	C-216	Maintenance	3200	3 Ha.		9600		✓	
Plantation 2nd	Moorang	Jangl	Lipra	UF Asrang	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Kalpa	Kalpa	Pangl	C-234	Maintenance	3200	5 Ha.		16000		✓	
Plantation 2nd	Kalpa	Kalpa	Pangl	C-240-II	Maintenance	3200	5 Ha.		16000		✓	
Total Maint. of Enrichment Plantation 2nd							43 Ha.		137600		✓	
Total Maint. of Enrichment Plantation 3rd							5 Ha.		8500		✓	
Plantation 3rd	Moorang	Jangl	Rarang	C-232-(b)	Maintenance	1700	5 Ha.		8500		✓	
Plantation 3rd	Kalpa	Kalpa	Pangl	C-240	Maintenance	1700	5 Ha.		8500		✓	
Total Maint. of Enrichment Plantation 3rd							10 Ha.		17000		✓	
Total Maint. of Enrichment Plantation 5th							5 Ha.		8500		✓	
Plantation 5th	Kalpa	Kalpa	Pangl	C-234 c	Maintenance	1700	5 Ha.		8500		✓	
Plantation 5th	Kalpa	Kalpa	Pangl	C-233 Rakchi Khona	Maintenance	1700	5 Ha.		8500		✓	
Total Maint. of Enrichment Plantation 5th							10 Ha.		17000		✓	
Total Maint. of Enrichment Plantation 1st							5 Ha.		23500		✓	
Plantation 1st	Kalpa	Kalpa	Pangl	C-233	Maintenance	4700	7 Ha.		32900		✓	
Plantation 1st	Kalpa	Kalpa	Pangl	C-240	Maintenance	4700	7 Ha.		32900		✓	
Total Maint. of Enrichment Plantation 1st							12 Ha.		56400		✓	
Total Maint. of NTFP Plantation 1st							5 Ha.		18200		✓	
Plantation 1st	Kalpa	Kalpa	Pangl	C-234b	Maintenance	3540	5 Ha.		18200		✓	
Total Maint. of NTFP Plantation 1st							5 Ha.		18200		✓	
Total Maint. of NTFP Plantation 2nd							5 Ha.		14400		✓	
Plantation 2nd	Kalpa	Kalpa	Pangl	C-234b	Maintenance	2890	5 Ha.		14400		✓	
Total Maint. of NTFP Plantation 2nd							5 Ha.		14400		✓	

APO of CAT Plans for the Year 2018-19

Division/ CAT Plan/ Activity/ Work-wise Details

APO OF CAT Plantation														
Division/ CAT Plan/ Activity/ Work-wise Details														
Component	Range	Block	Seat	Area	Name of Work	Targets				Remarks				
						Ncrms	Phy	Unit	Financial (Rs.)					
Maint. of NTFP plantation 3rd	Kalpa	Kalpa	Pangi	C-240	Maintenance	2410	5 Ha.	12000		✓				
					Total Maint. of NTFP Plantation 3rd		5 Ha.	12000						
					Total Maintenance of Plantation		90 Ha.	272500						
					G. Total									

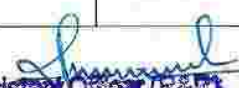
21.7.2018

Chairperson, Executive Committee

- cum- Principal CCF (HOF), HP

Status of details of expenditure under R&R activities carried out in Village Pangri as on 30/09/2018.

Sr. No.	R&R and other activities	Total Amount	Balance Amount
1	Land Compensation	453852964.00	536523
2	Financial Assistance in Lieu of Forest Customary Rights to 510 PAF's.	37640250.00	
3	R&R Grants	9697087.00	
4	256 No. Works awarded to 38 Contractors (w.e.f year 2008 to 30.09.2018)	167111357.00	
5	LADF (Local Area Development Fund) deposited against Stage -I (Rs. 7.06 Crore), Stage-II & III (0.72 Crore) of IKHEP.	77810000.00	
6	Damage Compensation	0.00	
i	Compensation for Cracks in houses (151 Families)	2500000.00	
	Additional Compensation for Cracks in houses	8000000.00	
ii	Damage Compensation (5 No. Families)	1895873.00	
7	R&R Activities	0.00	
i	Crop compensation w.e.f. 2010-11 to 2013-14	27131741.00	
ii	Training & Awareness Camps (18 No.)	427671.00	
iii	Merit Scholarship Scheme (26+46+32+38+31+28+15+29+25=270 No.)	2205000.00	
iv	School Competition (10 No.)	67898.00	
v	Sports Tournament (5 No.)	101406.00	
vi	Varshik Mela (3 No.)	310667.00	
vii	Project level Medical Fund Scheme (35 beneficiaries)	795373.00	
viii	Grant to CBO (Community based Organization)	80000.00	
	Total -	78,96,27,287.00	
8	Other benefits extended to MPAF's & PAF's of Pangri Village under R&R Programme.		
i	Sponsored Candidates in various ITI of Himachal Pradesh (45 No. + 6 Nos. (during this year 2018-20).	1811303	
ii	Indirect Employment in HPPCL through outsourced (w.e.f year 2008 to 30-09-2018.) = 64 (As on date 35)	42206951.00	
	Employment in HCC -69	0.00	
	Employment in M/s Patel Engineering -46	0.00	
	M/s Adriz Hydro -9	0.00	
iii	26 Vehicle hired in IKHEP from Pangri village (w.e.f year 2008 to 30.09.2018)	20043066.00	
9	Other Misc. welfare works	0.00	
i	Donation of 4 No. Trees for Construction of Devta Mandir at Village Pangri	712187.00	
ii	Purchasing & installation of Additional 25 No. Solar Light	477925.00	
iii	Plots (5 Biswa each for 7 families)	3640000.00	
	Plots (5 Biswa each for 7 families) allotted during	3640000.00	
vi	December, 2016		
	Works executed on the demand of Project Affected Panchayat residents as well as other PAP related works as executed as per directions of head of Project.	32536204.00	
v			
vi	Expenditure incurred on other R&R/Welfare activities	7514084.00	
	Total	11,25,81,720.00	
	Grand Total	90,22,09,007.00	536523


Assistant Officer (R&R)
Integrated Kargil HPP
HPPCL, Baramulla

Ministry of Environment and Forests Northern regional office Dehradun DATA SHEET		
1	Project Type	Hydro Electric Project
2	Name of the Project	Integrated Kashang Hydroelectric Power Project Stage-I, II & III& IV(243MW)
3	Clearance letter (S) O.M NO. &dates	<p>Environment clearance for Integrated Kashang HEP vide letter No. J-12011/81/2007-IA.1 dated 16/04/2010.</p> <p>Environment clearance for Kashang HEP (66 MW) letter No. J-12011/13/2002-IA.1 dated 15/11/2002.</p> <p>Forest Clearance for Stage –I vide letter NO. F-No.8-8/2001-FC dated 23rd June 2004.</p> <p>Forest Clearance for Stage II & III vide letter No. F-No.9HPC366/09-CHA dated 14th June 2011.</p>
4	Location: a)District (S) b)State (S) c) Latitudes/Longitudes	<p>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</p>
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	<p>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.</p>

		<p>The proposed Integrated Kashang Project comprises of four distinct stages of development:</p> <ul style="list-style-type: none"> • 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 m; • 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 of Stage-I powerhouse using Kerang waters over the 820 m head available in Kashang Stage-I powerhouse. • Stage-IV, comprising of more or less independent scheme harnessing the 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 <p>The following components of EMP are being implemented:-</p> <ol style="list-style-type: none"> 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
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7	Breakup of the project area a) Submergence area: forest and non- forest. b) Others	Since it is a run of the river scheme there will be no submergence of forest and non-forest area.																																						
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.	In the IKHEP Stage–I total affected families are 521 out of which MPFs are 180 (loosing lands/ dwelling units) on the basis of land acquisition data FRA status																																						
9	Financial details: a) projects cost as originally planned and Subsequent revised estimates and the year of price reference.	<p>The stage wise project cost as per DPR is as under:-</p> <p>a.</p> <table><tr><td>Stage of the project</td><td>Civil Work</td><td>E & M Works</td><td colspan="2">Total</td></tr><tr><td>I</td><td>288.79</td><td>246.50</td><td colspan="2">535.29</td></tr><tr><td>II & III</td><td>274.28</td><td>97.50</td><td colspan="2">371.78</td></tr><tr><td>IV</td><td>186.87</td><td>108.50</td><td colspan="2">295.37</td></tr><tr><td>Total</td><td>749.94</td><td>452.50</td><td colspan="2">1202.44</td></tr></table> <p>As per the approved TEC now revised cost for stage I,II &III:-</p> <table><tr><td>Project</td><td>Civil</td><td>E&M</td><td>IDC, Financial Charges &LADA</td><td>Total</td></tr><tr><td>Stage-I</td><td>290.13</td><td>114.67</td><td>73.21</td><td>478.01</td></tr></table>				Stage of the project	Civil Work	E & M Works	Total		I	288.79	246.50	535.29		II & III	274.28	97.50	371.78		IV	186.87	108.50	295.37		Total	749.94	452.50	1202.44		Project	Civil	E&M	IDC, Financial Charges &LADA	Total	Stage-I	290.13	114.67	73.21	478.01
Stage of the project	Civil Work	E & M Works	Total																																					
I	288.79	246.50	535.29																																					
II & III	274.28	97.50	371.78																																					
IV	186.87	108.50	295.37																																					
Total	749.94	452.50	1202.44																																					
Project	Civil	E&M	IDC, Financial Charges &LADA	Total																																				
Stage-I	290.13	114.67	73.21	478.01																																				

		Stage-II&III	303.18	123.33	61.68	488.19										
		Total	593.31	238.00	134.89	966.20										
		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.														
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		<table><tr><td>Scheme</td><td>Expenditure (in Rs.)</td></tr><tr><td>CAT Plan</td><td>13,03,00,000</td></tr><tr><td>Compensatory Afforestation</td><td>Rs 33,66,650 against stage-I & Rs 1,19,57,406 against stage-II&III</td></tr><tr><td>Net Present Value</td><td>1, 08, 54,136 against stage-I. Rs 1,58,64,079 against stage II&III</td></tr><tr><td>Pollution Control Board</td><td>1,20,37,400/-</td></tr><tr><td>Deptt. of Env. Science and Technology</td><td>20,00,000/-</td></tr></table>					Scheme	Expenditure (in Rs.)	CAT Plan	13,03,00,000	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	1,20,37,400/-
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		<table><tr><td>Fisheries Management plan</td><td>42,00,000</td></tr><tr><td>Total expenditure</td><td>17,47,15,592/-</td></tr></table>	Fisheries Management plan	42,00,000	Total expenditure	17,47,15,592/-	
Fisheries Management plan	42,00,000						
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10	Forest land requirement: a) The status of approval for diversion of forest land for non- forestry use. <						

	actual field experience so far.	against Stage II III, Rs 1,19,57,406/- has been deposited with HP Forest Department vide letter No. HPPCL/IKHEP/E&RR-IV-V01/2010-11-11410-13 dated 31/03/2011 DFO Kinnaur has conveyed physical and financial progress during the last Financial year DFO Kinnaur had conveyed Rs..... During this half year DFO Kinnaur had conveyed Nil progress during this 6 th month due to late approvals of APO.
11	The status of clear felling in non forest areas (such as submergence area of reservoir approach road) if any, with quantitative information.	Since it is a runoff the river (R-O-R) scheme no submergence is involved thereof.
12	Status of construction:- a) Date of commencement (actual and/ or planned) b) Date of completion (actual and/ or Planned)	a. Date of commencement 9.04.2009, for Stage-I, 12.11.2010 for Stage II & III. b. Integrated Kashang HEP Stage- I was commissioned in the month of Sept. 2016. Stage II & III due to resistance by the villagers of Lippa work could not be started from Lippa side .
13	Reason for delay if the projects is yet to start:	Due to Torrential rain and cloud burst incident during the month of June 2013. Construction works of Integrated Kashang HEP Stage –I, were hampered , and as far as stage II & III is concerned due to litigation against Environmental Clearance and Forest Clearance case of Stage II & III at NGT the work of IKHEP Stage II & III could not be started.
Ministry of Environment and Forests Northern regional office Dehradun DATA SHEET		
1	Project Type	Hydro Electric Project
2	Name of the Project	Integrated Kashang Hydroelectric Power Project Stage-I, II & III & IV (243MW)
3	Clearance letter (S) O.M NO. & dates	Environment clearance for Integrated Kashang HEP 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 rd June 2004.

		Forest Clearance for Stage II & III vide letter No. F-No.9HPC366/09-CHA dated 14 th 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: c) Of the Project d) Of the Environmental Management plans	<p>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.</p> <p>The proposed Integrated Kashang Project comprises of four distinct stages of development:</p> <ul style="list-style-type: none"> • 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 m;

		<ul style="list-style-type: none"> • 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 of Stage-I powerhouse using Kerang waters over the 820 m head available in Kashang Stage-I powerhouse. • Stage-IV, comprising of more or less independent scheme harnessing the 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 <p>The following components of EMP are being implemented:-</p> <ol style="list-style-type: none"> 10. Catchment Area Treatment Plan. 11. Implementation of Resettlement & Rehabilitation Plan. 12. Compensatory Afforestation. 13. Muck Management Plan. 14. Health Management Plan. 15. Provision for Subsidized Fuel. 16. Disaster Management Plan. 17. Environment Monitoring Plan. 18. Fisheries Development Plan
7	Breakup of the project area c) Submergence area: forest and non- forest. d) Others	Since it is a run of the river scheme there will be no submergence of forest and non-forest area.
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.	In the IKHEP Stage-I total affected families are 521 out of which MPFs are 180 (loosing lands/ dwelling units) on the basis of land acquisition data FRA status

	<p>c) SC/ST/adivasis</p> <p>d) Others</p> <p>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.</p>																																									
9	<p>Financial details:</p> <p>a) projects cost as originally planned and Subsequent revised estimates and the year of price reference.</p> <p>b)Allocation made for environmental management plans with item wise and Year wise break up.</p> <p>C) Benefit cost ratio/Internal rate of return and the year of assessment.</p>	<p>The stage wise project cost as per DPR is as under:-</p> <p>g.</p> <table><tr><td>Stage of the project</td><td>Civil Work</td><td>E & M Works</td><td>Total</td></tr><tr><td>I</td><td>288.79</td><td>246.50</td><td>535.29</td></tr><tr><td>II & III</td><td>274.28</td><td>97.50</td><td>371.78</td></tr><tr><td>IV</td><td>186.87</td><td>108.50</td><td>295.37</td></tr><tr><td>Total</td><td>749.94</td><td>452.50</td><td>1202.44</td></tr></table> <p>As per the approved TEC now revised cost for stage I,II &III:-</p> <table><tr><td>Project</td><td>Civil</td><td>E&M</td><td>IDC, Financial Charges &LADA</td><td>Total</td></tr><tr><td>Stage-I</td><td>290.13</td><td>114.67</td><td>73.21</td><td>478.01</td></tr><tr><td>Stage-II&III</td><td>303.18</td><td>123.33</td><td>61.68</td><td>488.19</td></tr><tr><td>Total</td><td>593.31</td><td>238.00</td><td>134.89</td><td>966.20</td></tr></table> <p>h. Total allocation made for Environment Management Plan is Rs. 5150.60 Lacks. and year wise breakup of CAT Plan is enclosed as “Annexure –D1”</p> <p>i. As per the DPR cost benefit ratio of the</p>	Stage of the project	Civil Work	E & M Works	Total	I	288.79	246.50	535.29	II & III	274.28	97.50	371.78	IV	186.87	108.50	295.37	Total	749.94	452.50	1202.44	Project	Civil	E&M	IDC, Financial Charges &LADA	Total	Stage-I	290.13	114.67	73.21	478.01	Stage-II&III	303.18	123.33	61.68	488.19	Total	593.31	238.00	134.89	966.20
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	<p>d) Whether (c) includes the cost of environmental management as shown in b) above</p> <p>e) Actual expenditure incurred on the project so far.</p> <p>F) actual expenditure incurred on the environmental management plans so far:</p>	<p>project is estimated at 1.8 and internal rate of returns is 12.2%.</p> <p>j. Yes.</p> <p>k. Actual expenditure incurred on the project so far is appended as “Annexure-D2</p> <p>l. The expenditure incurred in EMP is as under:-</p> <table><tr><th>Scheme</th><th>Expenditure (in Rs.)</th></tr><tr><td>CAT Plan</td><td>13,03,00,000</td></tr><tr><td>Compensatory Afforestation</td><td>Rs 33,66,650 against stage-I & Rs 1,19,57,406 against stage-II&III</td></tr><tr><td>Net Present Value</td><td>1, 08, 54,136 against stage-I. Rs 1,58,64,079 against stage II&III</td></tr><tr><td>Pollution Control Board</td><td>1,20,37,400/-</td></tr><tr><td>Deptt. of Env. Science and Technology</td><td>20,00,000/-</td></tr><tr><td>Fisheries Management plan</td><td>42,00,000</td></tr><tr><td>Total expenditure</td><td>17,47,15,592/-</td></tr></table>	Scheme	Expenditure (in Rs.)	CAT Plan	13,03,00,000	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	1,20,37,400/-	Deptt. of Env. Science and Technology	20,00,000/-	Fisheries Management plan	42,00,000	Total expenditure	17,47,15,592/-
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10	<p>Forest land requirement:</p> <p>c) The status of approval for diversion of forest land for non- forestry use.</p>	<p>c. Total Forest Land required for IKHEP</p> <table><tr><th>Stage of the project</th><th>Forest Land (Hac.)</th></tr><tr><td>I</td><td>18.7142</td></tr></table>	Stage of the project	Forest Land (Hac.)	I	18.7142												
Stage of the project	Forest Land (Hac.)																	
I	18.7142																	

		II & III	17.6857
		IV	25.5000
		Total	61.8999
		<p>So far as the Stage-I of the project is concerned approval for diversion of forest land for non forestry purpose has been obtained from MOEF vide letter. F. No- 8-8/2001-FC dated 23rd June 2004 .Diversion of 17.6857 Hact. of forest land for construction of Stage II & III(130MW) has been accorded by MOEF New Delhi vide MOEF letter F. No. 9HPC 366/09-CHA dated 14th 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.</p> <p>d) The status of clear felling.</p> <p>d. Against Stage-I there were 349 trees earmarked for felling, out of which 143 trees got 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. Compensatory Afforestation of 38 Ha. has been achieved so far against stage-I. Against stage-II&III, 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 diverted against Stage II III, Rs 1,19,57,406/- has been deposited with HP Forest Department vide letter No. HPPCL/IKHEP/E&RR-IV-V01/2010-11-11410-13 dated 31/03/2011 DFO Kinnaur has conveyed physical and financial progress during the last Financial year DFO Kinnaur had conveyed Rs..... During this half year DFO Kinnaur had conveyed Nil progress during this 6th month due to late approvals of APO.</p>	
	d) The status of clear felling.		
	e. The status of compensatory afforestation, if any.		
	f. Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.		

11	The status of clear felling in non forest areas (such as submergence area of reservoir approach road) if any, with quantitative information.	Since it is a runoff the river (R-O-R) scheme no submergence is involved thereof.
12	Status of construction:- a) Date of commencement (actual and/ or planned) b) Date of completion (actual and/ or Planned)	<p>c. Date of commencement 9.04.2009,for Stage-I, 12 .11.2010 for Stage II &III.</p> <p>d. Integrated Kashang HEP Stage- I was commissioned in the month of Sept. 2016. Stage II &III due to resistance by the villagers of Lippa work could not be started from Lippa side .</p>
13	Reason for delay if the projects is yet to start:	Due to Torrential rain and cloud burst incident during the month of June 2013. Construction works of Integrated Kashang HEP Stage –I, were hampered , and as far as stage II &III is concerned due to litigation against Environmental Clearance and Forest Clearance case of Stage II &III at NGT the work of IKHEP Stage II &III could not be started.

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	Solid 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

*The cost of these plans has already been included in the Catchment Area Treatment Plan.

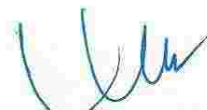
Cost Estimate of CAT Plan

Sl. 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

INTEGRATED KASHANG HYDROELECTRIC PROJECT- STAGE- II & III

(TENTATIVE PROJECT COST AS ON 30.09.2018)

SN	Description of Works	Total Project Cost as on 30.09.2018 (Rs. In Lacs)
	I- Works	
1	A- Preliminary	2412.15
2	B- Land	807.54
3	C- Works	
3.1	River Diversion & Intake Structure	-
3.2	Conveyance Channel	-
3.3	De-silting Basins	-
3.4	Kerang Kashang Link Tunnel	152.86
3.5	Balancing Reservoir	12,271.13
3.6	Adits	-
	Sub Total C- Works	12424.00
4	J- Works	
4.1	Civil Works for Unit-III	-
	Proportioned cost of Power house now included in DPR of Kashang Stage - II & III	3364.19
	Proportioned cost of Transformer Hall now included in DPR of Kashang Stage - II & III	614.75
	Sub Total J- Works	3978.94
5	K- Buildings	-
6	M- Plantation	-
7	O- Miscellaneous	104.12
8	P- Maintenance @ 1% (I Works - A-B-Q-O-M-X)	-
9	Q- Special T &P	-
10	R- Communication	-
11	X- Environment & Ecology	729.45
12	Y- Losses on Stock @ 0.25% (Iworks-A-B-Q)	-
	Total I- Works	20456.20
II	Establishment @ 8% (I Works- B Land)	5894.93
III	T&P	0.00
IV	Receipts and Recoveries	0.00
	Total Direct Charges	26351.13
	Indirect Charges	
V	Audit & Accounts & Pro-rata of H.O. Establishment (0.5%)	0.80
VI	Capitalization of abatement of land revenue	0.00
	Total Indirect Charges	0.80
	G. TOTAL (DIRECT & INDIRECT CHG)	26351.93
VII	E&M Works	15006.66
	Total Base Cost	41358.59
VIII	IDC & Financing Costs	7583.26
IX	LADC	76.85
	Grand Total	49018.71


 Manager (),
 Integrated Kashang HEP
 HPPCL

INTEGRATED KASHANG HYDROELECTRIC PROJECT- STAGE-1
(TENTATIVE PROJECT COST AS ON 30.09.2018)

SN	Discription of Works	Project Cost 30.09.2018 STAGE-1 (65 MW) (Rs. In Lacs)
	I- Works	
1	A- Preliminary	1,181.03
2	B- Land	5,152.73
3	C- Works	
3.1	River Diversion & Intake Structure	1,299.80
3.2	Conveyance Channel	603.98
3.3	De-silting Basins	1,189.98
	Sub Total C- Works	3093.75
4	J- Works	
4.1	Power Channel	344.05
4.2	Head Race Tunnel	4,203.56
4.3	Balancing Reservoir	3,826.26
4.4	Pressure Shaft & Valve Chamber	16,708.70
4.5	Power House	1,632.19
4.6	Transformer Hall	307.37
4.7	Main Access Tunnel	582.39
4.8	Tail Race Tunnel	683.97
4.9	Adits	2,884.19
	Sub Total J- Works	31172.67
5	K- Buildings	658.05
6	M- Plantation	-
7	O- Miscellaneous	688.76
8	P- Maintenance @ 1% (I Works - A-B-Q-O-M-X)	15.24
9	Q- Special T &P	27.56
10	R- Communication	2,392.56
11	X- Environment & Ecology	3,251.21
12	Y- Losses on Stock @ 0.25% (Iworks-A-B-Q)	-
	Total I- Works	47633.57
II	Establishment @ 8% (I Works- B Land)	8,177.03
III	T&P	1.31
IV	Receipts and Recoveries	-
	Total Direct Charges	55811.91
	Indirect Charges	
V	Audit & Accouts & Pro-rata of H.O. Establishment (0.5%)	0.57
VI	Capitalization of abatement of land revenue	-
	Total Indirecte Charges	0.57
	G. TOTAL (DIRECT & INDIRECT CHG)	55812.47
VII	E&M Works	7,516.41
	Total Base Cost	63328.89
VIII	IDC & Financing Costis	13,883.36
IX	LADC	773.75
	Grand Total	77986.00



 Integrated Kashang HEP

 HEPCL, P.O.



H.P. STATE POLLUTION CONTROL BOARD

"Opp. Indira Market, Rampur, Distt. Shimla (HP)"

Phone and Fax No. 01782-233887

No.PCB/RMP/Kashang HEP -EMP/ 497

Dated/ 12/11/18

To

The Sr. Manager,
Integrated Kashang HEP (HPPCL)
Reckong Peo, Tehsil Kalpa,
Distt. Kinnaur (H.P)

Subject: EMP Result for May 2018 & August 2018.

Sir,

Please find enclosed herewith the results of water, Air and Noise Samples taken under
EMP Monitoring for May 2018 & August 2018.

Thanking you,


Yours faithfully

1882
28/11/18

(Er.S.K.Shandil)
Environmental Engineer

Encl: As above

Air sample of Kashang HEP , May,2018					
Sr.No	Date	Type of Sample	Sampling Location	RSPM in $\mu\text{g}/\text{m}^3$ Day Time	RSPM in $\mu\text{g}/\text{m}^3$ Night Time
1	22.05.2018	Ambient Air	Near Power House	37.17 μg^3	
2	22.05.2018	Ambient Air	Office Site R/Peo		30.76 μg^3
3	23.05.2018	Ambient Air	At Pangi Village	43.30 μg^3	
4	23.05.2018	Ambient Air	Near Intake Site		28.42 μg^3
5	24.05.2018	Ambient Air	Near Guest House Intake	42.851 μg^3	
6	24.05.2018	Ambient Air	Worker Colony Intake		39.58 μg^3
7	25.05.2018	Ambient Air	Office Site Intake	38.30 μg^3	


 Jr.Environmental Engineer, H.P.State
 Pollution Control Board, Rampur,
 Distt.Shimla H.P.

Noise Monitoring Report (May, 2018)

M/s Kashang Hydro Electric Project

Equipment details : Envirotech SLM-100

Sr.No.	Date of Sampling	Sampling Location	Levels in Leq (dB)	Permissible limit in dB
1	24.05.2018	Near Power House	72.3	75
2	24.05.2018	HRTC Bus Stand Reckong Peo	78.7	65
3	24.05.2018	HPPCL Office at Reckong Peo	64.3	65
4	24.05.2018	Patel Engg. office at Reckong Peo	65.2	65
5	24.05.2018	At Pangi village	53.2	55
6	24.05.2018	Near IPS	74	75
7	24.05.2018	Near Workers colony at Intake	73.8	75
8	24.05.2018	At Intake Guest House	74.7	75
9	24.05.2018	DG Set Near Guest House at Intake	76	75
10	24.05.2018	Near Batching Plant at Intake	77.3	75
11	24.05.2018	Near MAT	74.8	75
12	24.05.2018	DG Set Near BR intake	76.4	75



Jr. Environmental Engineer,
H.P. State Pollution Control Board,
Rampur, Distt. Shimla H.P.

EMP Kashang HEP May, 2018

	Date	Time	Sampling Point	DO(mg/l)	Tem p.	Odor	Weather
1	24.05.2018	03:30pm	Lippa Khad	9.1	14	Odorless	cloudy
2	24.05.2018	04:15pm	River Satluj after confluence to Kashang Khad	9.3	14	Odorless	cloudy
3	24.05.2018	04:50pm	River satluj before confluence to Kahsnag Khad	9.3	14	Odorless	cloudy
4	24.05.2018	05:30pm	Kashang HEP Intake site	9.2	14	Odorless	Sunny
5	24.05.2018	6:00pm	Kashang HEP Waste Water Sample from workers colony			Odorless	Sunny

Unf

Air sample of Kashang HEP , (August,2018)					
Sr.No	Date	Type of Sample	Sampling Location	RSPM in $\mu\text{g}/\text{m}^3$ Day Time	RSPM in $\mu\text{g}/\text{m}^3$ Day Time
1	17.08.2018	Ambient Air	Office Site Intake	37.17 μg^3	
2.	17.08.2018	Ambient Air	Worker Colony Intake		24.35 μg^3
3	18.08.2018	Ambient Air	Near Guest House Intake	35.85 μg^3	
4	18.08.2018	Ambient Air	Near Intake Site		32.41 μg^3
5	19.08.2018	Ambient Air	At Pangi Village	61.34 μg^3	
6	19.08.2018	Ambient Air	Office Site R/Peo		41.98 μg^3
7	20.08.2018	Ambient Air	Near Power House	44.71 μg^3	



 Jr.Environmental Engineer,
 H.P.State Pollution Control Board,
 Rampur, Distt.Shimla H.P.

Noise Monitoring Report (August, 2018)

M/s Kashang Hydro Electric Project

Equipment details : Envirotech SLM-100

Sr.No.	Date of Sampling	Sampling Location	Levels in Leq (dB)	Permissible limit in dB
1	19.08.2018	Near Power House	77.6	75
2	19.08.2018	HRTC Bus Stand Reckong Peo	80.7	65
3	19.08.2018	HPPCL Office at Reckong Peo	64.3	65
4	19.08.2018	Patel Engg. office at Reckong Peo	65.7	65
5	19.08.2018	At Pangi village	54.7	55
6	19.08.2018	Near IPS	73	75
7	19.08.2018	Near Workers colony at Intake	74.4	75
8	19.08.2018	At Intake Guest House	70.3	75
9	19.08.2018	DG Set Near Guest House at Intake	79	75
10	19.08.2018	Near Batching Plant at Intake	76.3	75
11	19.08.2018	Near MAT	74.1	75
12	19.08.2018	DG Set Near BR intake	79.3	75


Jr.Environmental Engineer,
H.P.State Pollution Control Board,
Rampur, Distt.Shimla H.P.

Details for EMP Monitoring of Kashang HEP (August, 2018)

Sr. No.	Date	Time	Sampling Point	Can No.	DO (mg/l)	Temp.	Odor	Weather
1	19.08.2018	3:30 PM	Lippa Khad	4	9.1	14	Odorless	Cloudy
2	19.08.2018	4:30 PM	R.Satluj Before confluence Kashang Khad	5	9.3	14	Odorless	Cloudy
3	19.08.2018	5:00 PM	R.Satluj After confluence kashang Khad	6	9.3	14	Odorless	Cloudy
4	19.08.2018	5:30 PM	Kashang HEP Intake site	7	9.2	14	Odorless	Cloudy
5	19.08.2018	5:45 PM	KHEP waste water sample from workers colony	8				Cloudy

Details for Routine Monitoring Month of (August, 2018)

Sr. No.	Date	Time	Sampling Point	Can No.	DO (mg/l)	Temp.	Odor	Weather
1	19.08.2018	1:00 PM	R.Satluj before confluence with River Spiti at Khab.	1	9.6	13	Odorless	Cloudy
2	19.08.2018	1:10 PM	R.Spit before confluence with River Satluj at Khab.	2	9.5	13	Odorless	Cloudy
3	19.08.2018	1:20 PM	R.Satluj after Confluence with River Spiti at Khab	3	9.6	13	Odorless	Cloudy
4	21.08.2018	7:30 AM	River.Baspa U/S reservoir Baspa HEP at Kupp.	19	9.3	13	Odorless	Cloudy
5	21.08.2018	10:30 AM	River Satluj at Wangtoo Bridge	20	9.1	15	Odorless	Cloudy
6	21.08.2018	12:30 PM	River Satluj D/S Rampur	23	8.7	17	Odorless	Cloudy
7	21.08.2018	1:00 PM	River Satluj U/S Rampur	25	8.8	17	Odorless	Cloudy
8	22.08.2018	2:10 PM	River Satluj U/S Tattapani	27	8.4	18	Odorless	Cloudy

Details for EMP Monitoring of Shongtong Karcham HEP (August, 2018)

Sr. No.	Date	Time	Sampling Point	Can No.	DO (mg/l)	Temp.	Odor	Weather
1	20.08.2018	8:00 AM	Drinking water Sample Powari	10				Cloudy
2	20.08.2018	8:15 AM	Shongtong karcham HEP U/S Dam	11	9.1	14	Odorless	Cloudy
3	20.08.2018	8:30 AM	Shongtong karcham HEP D/S Dam	12	9.2	14	Odorless	Cloudy
4	20.08.2018	9:00 AM	Shongtong Karcham HEP TRT outfall	13	9.2	14	Odorless	Cloudy
5	20.08.2018	9:15 AM	Waste water workers colony SKHEP	14				Cloudy
6	20.08.2018	9:30 AM	Tangling Nala	15	9	14	Odorless	Cloudy
7	20.08.2018	10:30AM	Shiang Nala	16	9	14	Odorless	Cloudy
8	20.08.2018	11:00 AM	Ralli Nala	17	9.1	14	Odorless	Cloudy
9	20.08.2018	12:15 PM	Drinking water Sample Karcham	18				Cloudy

LM

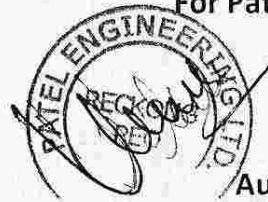


PATEL ENGINEERING LIMITED
INTEGRATED KASHANG HYDRO ELECTRIC PROJECT STAGE -II & III

Medical expenditure on workmen for the Period Jul-2018 to Sep-2018

Sr. No.	Particulars	Jul-18	Aug-18	Sep-18	TOTAL
1	Compunder & trained medical staff expenses	25000	23500	24200	72700
2	Medicine	15000	10000	12000	37000
Total		40000	33500	36200	109700

For Patel Engineering Ltd.



Authorized Signatory
Integrated Kashang HEP



TEST CERTIFICATE

(This certificate is not valid without a hologram)

Sample : Ambient Air	Report Number:1016858
Sample Description : Ambient Air Monitoring	Report issue Date: 15/09/2018
Customer Ref:300/IKHEP/2018-19/2154, Dt-06/08/2018	Page : 1/1
Customer Name & Address : Patel Engineering Ltd Integrated Kashang H.E.P. (Stage II & III), Near Ambedkar Bhawan, Top Floor, Thakur Shopping Complex, Main Bazar Reckong Peo, Tehsil Kalpa, Distt. Kinnaur, Himachal Pradesh - 172107	Job code STRC/1016858 Sample received on 06/09/2018 Date of Testing 06/09/2018-14/09/2018 Sample condition: Sampling Date: 04/09/2018 Location: Near Quality Control Lab.

S. No.	Test Parameters	Test Results	Requirement as per NAAQS-2009	Test Method	Conformity
A.	Chemical parameters				
A.1.	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	22.0	100 Max	Digital PM ₁₀ Analyzer	YES
A.2.	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	9.0	60 Max	Digital PM _{2.5} Analyzer	YES
A.3.	Carbon Monoxide (CO), $\mu\text{g}/\text{m}^3$	735	2000 Max	CO Meter	YES
A.4.	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	3.6	80 Max	Digital Gas Analyzer	YES
A.5.	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	7.7	80 Max	Digital Gas Analyzer	YES
A.6.	Ozone (O ₃), $\mu\text{g}/\text{m}^3$	9.7	100 Max	CPCB Guideline	YES
A.7.	Lead (Pb), $\mu\text{g}/\text{m}^3$	ND	1.0 Max	IS: 5182 (P-22) 2004	YES
A.8.	Ammonia (NH ₃), $\mu\text{g}/\text{m}^3$	2.9	400 Max	APHA-Air (401)	YES
A.9.	Benzene (C ₆ H ₆), $\mu\text{g}/\text{m}^3$	ND	5.0 Max	IS: 5182 (P-11) 2006	YES
A.10.	Benzo (a) Pyrene (BaP), ng/m^3	ND	1.0 Max	IS: 5182 (P-12) 2006	YES
A.11.	Arsenic (As), ng/m^3	ND	6.0 Max	IS: 5182 (P-22) 2004	YES
A.12.	Nickel (Ni), ng/m^3	ND	20.0 Max	IS: 5182 (P-22) 2004	YES

Note: ND= Not Detected (Detection limit is below specified limit.)

***** End of Report *****

Format No.: STRC/7.8/FTC/Z/02



Santram Rajput
Technical manager

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USFDA DUNS No.864393171

TESTING OF FOOD | WATER | CHEMICALS | TOYS | ELECTRONICS | BUILDING MATERIAL | ENVIRONMENT

TEST CERTIFICATE

(This certificate is not valid without a hologram)

Sample : Noise Level		Report Number:1016859	
Sample Description : DG Set Noise Level		Report issue Date: 15/09/2018	
Customer Ref:300/IKHEP/2018-19/2154, Dt-06/08/2018		Page : 1/1	
Customer Name & Address : Patel Engineering Ltd Integrated Kashang H.E.P. (Stage II & III), Near Ambedkar Bhawan, Top Floor, Thakur Shopping Complex, Main Bazar Reckong Peo, Tehsil Kalpa, Distt. Kinnaur, Himachal Pradesh - 172107		Job code STRC/1016859 Sample received on 06/09/2018 Date of Testing 06/09/2018-14/09/2018 Sample condition: -- Sampling Date: 04/09/2018 Location: Near Patel Office Ref to Protocol: Noise Pollution (Regulation and Control) Rules 2000, Under Environment Protection Act 1986.	

S. No.	Area/Zone	Noise Level while Factory m/c & D.G. Set running	Permissible Limit	Conformity
A.	Environment Parameter			
A.1.	Inside the Acoustic Enclosure	99.3	--	--
A.2.	Ouside the Acoustic Enclosure at (A) Distance of 1.0 meter	71.8	Minimum of 25 dB(A) Insertion Loss	Yes

***** End of Report *****

(Signature)

Format No.: STRC/7.8/F/TC/Z/00



Santram Rajput
Technical manager

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USFDA DUNS No.864393171

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TEST & RESEARCH CENTRE

TESTING OF FOOD | WATER | CHEMICALS | TOYS | ELECTRONICS | BUILDING MATERIAL | ENVIRONMENT

Phase - 2, Delhi 110034(India)
Ph: +91 11 49491400, 27022900
E-mail: info@sigmatest.org
web: www.sigmatest.org**TEST CERTIFICATE**

(This certificate is not valid without a hologram)



Sample : Drinking Water	Report Number:2009928
Sample Description : Said to be "Drinking Water"	Report issue Date: 14/09/2018
Customer Ref:300/IKHEP/2018-19/2154, Dt. 06/08/2018	Page : 1/1
Customer Name & Address : Patel Engineering Ltd Integrated Kashang H.E.P. (Stage II & III), Near Ambedkar Bhawan, Top Floor, Thakur Shopping Complex, Main Bazar Reckong Peo, Tehsil Kalpa, Distt. Kinnaur, Himachal Pradesh - 172107	Job code STRC/2009928 Sample received on 06/09/2018 Date of Testing 06/09/2018-13/09/2018 Sample Quantity 5.25 Litre Sample condition: Filled in plastic can & sterilized glass bottle Sample Location: Near Patel Office

S. No.	Test Parameters	Test Results	Requirement As Per IS:10500:2012 Acceptable Limit/Permissible Limit	Test Method	Conformity
A.	Chemical Examination				
A.1.	Colour, Hazen units	<3.0	5.0/15.0 Max.	IS:3025(P-4)1983	Yes
A.2.	Odour	Agreeable	Agreeable	IS:3025(P-5)1983	Yes
A.3.	Turbidity, NTU	<0.1	1.0/5.0 Max.	IS:3025(P-10)1984	Yes
A.4.	pH value (at 25.0°C)	7.31	6.5-8.5/No relaxation	IS:3025(P-11)1983	Yes
A.5.	Chloride (as Cl), mg/l	20.0	250/1000 Max.	IS:3025(P-32)1988	Yes
A.6.	Total Hardness (as CaCO ₃), mg/l	14.0	200/600 Max.	IS:3025(P-21)2009	Yes
A.7.	Total Dissolved Solids, mg/l	49.0	500/2000 Max.	IS:3025(P-16)1984	Yes
A.8.	Iron (as Fe), mg/l	BDL(MDL=0.1)	1.0 Max./No relaxation	IS:3025(P-53)2003	Yes
A.9.	Fluoride (as F), mg/l	<1.0	1.0/1.5 Max.	IS:3025(P-60)2008	Yes
B.	Microbiological Examination				
B.1.	E. coli, MPN/100ml	Not Detected	Shall not be detectable in any 100ml. sample	IS:1622-1981	Yes
B.2.	Coliform, MPN/100ml	16	Shall not be detectable in any 100ml. sample	IS:1622-1981	No

Note: According to IS:10500-2012, it is recommended that the acceptable limit is to be implemented. Values greater than the acceptable limits render the water is not suitable, but still may be tolerated in the absence of an alternate source but upto permissible limits.

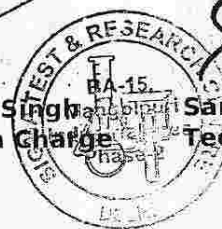
• BDL = Below detection limit, MDL = Method detection limit.

***** End of Report *****

Shruti

Format No.: STRC/7.8/FTC/Z/02

M. Singh
Santram
Dr. Neetu Singh
Section in Charge
Santram Rajput
Technical manager



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AN ISO 9001:2008 & 14001:2005 ACCREDITED LABORATORY



PATEL ENGINEERING LIMITED
INTEGRATED KASHANG HYDRO ELECTRIC PROJECT STAGE -II & III

Medical expenditure on workmen for the Period Apr-2018 to Jun-2018

Sr. No.	Particulars	Apr-18	May-18	Jun-18	TOTAL
1	Compunder & trained medical staff expenses	25017	25082	25081	75180
2	Medicine	15400	14700	16200	46300
Total		40417	39782	41281	121480

For Patel Engineering Ltd



Authorized Signatory
Integrated Kashang HEP



Himachal Pradesh Power Corporation Limited
(A State Government Undertaking)
Integrated Kashang HEP, Reckong Peo Distt. Kinnaur (HP).
Phone/Fax No.: 01786-223810/223992
Email address: surinderprattan@gmail.com
Regd. office: Himfed Building, BCS, New Shimla - (HP)-171009
Website: www.hppcl.gov.in

No:- HPPCL/IK/E&F/(K-1)/ Vo' XV/III-2018-19-1213-17

Dated:- 06-06-2018

To

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

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

Sir,

The subject cited compliance for the period Oct. 2017 to March., 2018, along with
enclosures, is appended herewith for your kind information and necessary action please.

D/A: - As above along with Soft copy (71 Pages)

Yours faithfully,

o/v
Sandz 6/6/18
Sr. Manager (E&R),
o/o General Manager,
Integrated Kashang HEP
Kinfed Building,
HPPCL, R/Peo,
Distt. Kinnaur -172107.

CC:-

- The Chief Environment Specialist, HPPCL, Himfed Building, BCS, New-Shimla-171009, along with above compliance report, for information & needful action please.
- The Divisional Forest Officer Kinnaur, at Reckong Peo, Kinnaur for information along with copy of above compliance report.
- The Sr. Environment Engineer, Himachal Pradesh State Pollution Control Board Rampur, Distt Shimla, along with copy of above compliance report for information please.
- The Sr. Manager (IT), HPPCL, Himfed Building, BCS, New-Shimla-171009, for information and with the request for uploading the same in HPPCL web site for which CD containing soft copy of above report is annexed please.