

Environmental Monitoring Report

Project Number: 41627-053

March 2015

Period: July 2014 - December 2014

IND: Himachal Pradesh Clean Energy Development Investment Program - Tranche 4

Submitted by

Himachal Pradesh Power Corporation Limited, Shimla

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Asian Development Bank

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HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)

Uttam Bhawan (Dogra Lodge), Below 103 Tunnel, Shimla-171004 HP India

Phone: 0177-2658397

Fax:0177-2659899

No. HPPCL/ESMU/STKHEP/QR/2015-1244-47

Dated: 21. 02-2015

To

Ms. Teresa Kho, Country Director,

South Asia Department, India Resident Mission,

4 San Martin Marg, Chanakyapuri,

New Delhi-110021

ASIAN DEVELOPMENT BANK INRM COUNTRY DIRECTOR'S OFFICE

25 FEB 2015

RECEIVED

Subject:

Submission of Six monthly Compliance Status Report on Environment Management Plan, Environment Clearance, Forest Clearance and Public Hearing for the period ending 31.12.2014 - Shongtong Karchham HEP.

Madam,

Please find enclosed herewith six monthly Compliance Status Report on Environment Management Plan, Environment Clearance, Forest Clearance and Public Hearing for the period ending 31.12.2014 in respect of Shongtong Karchham HEP for your information and record please.

Encl: As above

Yours faithfully,

(Rakesh Sood IFS)
Chief Environment Specialist

CC:

- 1. Mr. V. R. Karbar, Team Leader, South Asia Department, India Resident Mission, 4 San Martin Marg, Chanakyapuri, New Delhi-110021 for information, please.
- 2. Mr. Ralf Starkloff, Senior Safeguard Specialist, South Asia Department, India Resident Mission, 4 San Martin Marg, Chanakyapuri, New Delhi-110021 for information, please.
- 3. The General Manager, Shongtong Karchham HEP, HPPCL, Reckong Peo, Distt. Kinnaur for information please.



Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Peo

Phone: - 01786-222310, 222962, 222801, Fax:-01786- 223174, Email: - skhep.hppel@gmail.com

No. HPPCL/DGM(R&R)-STKHEP/ Comp-I/2014- 2924-28

Dated:- 18 2 20 5

To

The Chief Environment Specialist. Uttam Bhawan (Dogra Lodge) Near 103 Tunnel, Shimla-04.

Subject: -Reg. six monthly compliance status reports for ending period 31.12.2014.

Sir.

This is with reference to subject cited above and your email on dated 16.02.2015 vide which six monthly compliance status report in r/o Shongtong Karchham HEP was sought from this office.

In this context, the six monthly compliance status report for ending period 31.12.2014 is hereby submitted for your kind information and further necessary action at your end, please.

Encl: As Above

Your's faithfully,

Dy. General Manager (R&R), SKHEP, HPPCL, R/Peo.

Distt. Kinnaur (H.P.).

Copy forwarded to:-

- 1. The Director (Civil), HPPCL, Himfed Building, Bye Pass Road (Panjri), Below Old MLA's Quarters, Tutikandi, Shimla, Himachal Pradesh - 5 for information, please.
- 2. The General Manager, STKHEP, HPPCL, Reckong Peo for information, please.
- 3. The Addl. General Manager (CP) HPPCL, Himfed Building, Bye Pass Road (Panjri), Below Old MLA's Quarters, Tutikandi, Shimla, Himachal Pradesh -5 for information and further necessary action, please.
- 4. The Sr. Manager (Q & M), STKHEP, HPPCL, Reckong Peo for information, please.

ENVIRONMENT SAFEGUARDING AND MANAGEMENT REPORT

I	Name of Project	Shongtong Karchham HEP			
II	Name of Monitoring/Reporting Agency and address	Himachal Pradesh Power Corporation Limited			
III	Monitoring Period (season/month)	1 st July 2014 to 31 st December 2014			
IV	Report No.	2			
V	Report for the period	July 2014 to December 2014			
VI	Date of reporting	*			

A. IMPLEMENTATION OF SAFEGUARDING MEASURES

1. Forest Clearance: Forest Clearance for the project was granted by MoEF vide F.no. 8-78/2010-FC, dated 14th Nov. 2012 (submitted with previous compliance report).

Sr. No.	Description	Compliance Status
1.	Legal Status of the diverted forest land shall	HPPCL will not seek any changes in
	remain unchanged.	status of diverted forest land.
2	The Compensatory Afforestation (CA) will be	Condition is complied with by
	raised and maintained over double the area	paying the requisite amount to
	proposed for diversion in a degraded forest	CAMPA through DFO Kinnaur.
	land (i.e. 128 ha) at the cost of User Agency.	CA over twice the area of degraded
		forestland shall be undertaken by the
		Department of Forest Govt. of HP.
		The HPPCL has deposited the
		requisite cost towards CA with
		Department of Forest, Govt. of HP
		amounting to Rs. 1, 74, 65,952/-
		(One crore seventy-four lakhs sixty-
	*	five thousand nine hundred and fifty
120	,	two) only vide DD No. 630072 dated
8		02.04.2011 (worth Rs. 7, 44,
		26,798/- including amount for NPV)
9		drawn on Reckong Peo branch of
		State Bank of India vide their letter
		No. HPPCL/GM-
		STKHEP/Forest/2010-24-27, dated
	. K	02.04.2011 as per the bill issued by
	a	DFO Kinnaur vide letter No 9216
		dated 30.03.2011.
3	The user Agency shall pay the additional	Condition has been complied with
	NPV. if so determined, as per the final	by paying the requisite amount to
	decision of Hon'ble Supreme Court of India.	CAMPA through DFO Kinnaur.
		HP Forest Department through DFO
	N N	Kinnaur raised a bill for Rs. 5, 69,
		60,846/- (Five crore sixty-nine lakh
		sixty thousand eight hundred and

	*	forty-six) only against NPV vide letter No. 9216 on dated 30.03.2011 and same has been deposited vide DD No. 630072 dated 02.04.11 with the DFO Kinnaur HP The same has been submitted with previous compliance report. An undertaking to pay the additional NPV, if so determined as per the final decision of Hon'ble Supreme Court of India has been given.
4	All the funds received from the user Agency under the project shall be transferred to Adhoc CAMPA pertaining to the state.	Pertains to HP Forest Department.
5	The State Government shall ensure that minimum flow of 15% is maintained at all time.	HPPCL has committed to maintain a minimum flow of 20% as downstream discharge at all time from the diversion structure of the project.
6	The user agency shall set up Ecological Monitoring Unit to monitor the impact of the project on flora and fauna of the area.	An Ecological Monitoring Unit has been set-up in the district with DFO, Kinnaur as its Chairman. (submitted with previous
		compliance report)
7	The user agency shall keep the effect of camping labourers on the flora and fauna during the construction phase of 48 months at minimum by providing alternate fuel for cooking and heating.	project components already provide for arrangement of alternate fuel for community kitchen run on LPG or kerosene or electricity and also the document provides for similar arrangement for heating (based on Kerosene). If at all fuel wood is to be procured, it has to be through authorized sources only. Till Nov. 2013, 69 nos. of Gas cylinder had been provided.
8	The entire reservoir created due to submergence shall be declared Reserve Forest under Indian Forest Act. 1927 within six months. However, regulated fishing shall be allowed. Nodal officer shall submit compliance report in this regard.	Since the Project is a Run-of-the-River type (RoR) hydropower project with diversion done through a barrage with head race tunnel (HRT). Thus, the submergence area is very small (27 hectares), which shall be got declared as Reserve Forest under Indian Forest Act. 1927 through HP State Forests Department with regulated fishing

0	Catalograph Assa Treatment Dlan should be	As you IID Cout notification no
9	Catchment Area Treatment Plan should be	As per HP Govt. notification no.
	implemented at the project cost under the	FFE-B-F-(2)-72/2004-PT-II dated
	supervision of the State Government.	30/09/2009, 2.5% of total project
		cost has been kept for Catchment
		Area Treatment Plan which comes
	19	out to be Rs. 701.95 millions. Out of
		which Rs. 604.4 million has been
		deposited in Ad-hoc CAMPA
		account, New Delhi pertaining to the
		UCBAH12275077542, dated
	*2	01/10/2012, submitted to the office
		of D.F.O, Kinnaur. The activities for
	e 9	FY 2014-15 have been provided by
		HP Forest Department (Annexure-
		I). The progress of activities will be
		provided after the closing of the
5400		financial year on 31st March 2015.
10	Consumbate of adagnets width shall be raised	A plan for Green belt development
10	Green belt of adequate width shall be raised	around reservoir and around surface
	by the user agency around the reservoir at the	r
	cost of the project.	components and along project roads
	- 3	at the cost of the project has been
		included in the EMP for which
		provision of 40 lacs has been made
		in EMP (Chapter-9). The same will
		be taken after the NH-5 widening
		work and dumping of muck is
		completed around the reservoir area.
11	The user agency shall facilitate a basin level	The Draft of Cumulative
11	study on the impact of HEP's on the flora &	Environment Impact Assessment
		Study (CEIAS) of Satluj basin has
	fauna of the as per the TOR submitted to	been submitted by the consultant
	MoEF.	, , , , , , , , , , , , , , , , , , , ,
- 25		(ICFRE, Dehradun) to Directorate of
		Energy, GoHP and has been put up
		in public domain at their website.
		Public hearing in this context has
		been held at Reckong Peo and Pooh,
		Distt Kinnaur on 8 th and 9 th
		December, 2014 and the
	20	observations of the locals and
		NGO's are under consideration at
		Directorate of Energy, GoHP
		(Annexure-II).
12	The user agency shall carry out the muck	
	disposal at pre-designated sites in such a	with strictly and free of cost lifting
	manner so as to avoid its rolling down.	of usable muck is being allowed to
	2 2	local people and developmental
		_
	W 1975	disposal as also to meet their
	The state of the s	

		requirement without disturbing a new area. It is further submitted that the State Pollution Control Board too is monitoring this aspect punctually and diligently.
13	The dumping area for muck disposal shall be stabilized and reclaimed by planting suitable species by the user agency at the cost of project under the supervision of State Forest Department. Retaining walls and terracing shall be carried out to hold the dumping material in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the State Forest Department. In a time bound manner as per Plan.	A detailed Muck Management Plan (MMP) has been prepared as part of EMP (Chapter-6) which prescribes for engineering and biological measures for stabilization of dumped muck. The MMP is being implemented diligently. As already submitted, its implementation is also being monitored strictly by the State Pollution Control Board.
14	The user agency to consult other organisation having experience in construction of roads in hilly areas such as BRO to avoid frequent road blocked due to landslides etc. and shall provide breast walls and retaining walls wherever necessary.	The agency like BRO, GREF and HP PWD etc. are being consulted for proper construction of roads as and when required although, HPPCL itself has sufficient experience and qualified staff to make environment friendly roads.
15	The Forest Department shall regenerate equivalent amount of degraded forest area, in addition to the condition no. 2. As the user agency does not have qualified manpower and control on the forest area to execute the same, they have paid for the same to the CF, Rampur. The Forest Department shall implement the same and submit a compliance report.	Total of Rs. 1,36,73,737/- have been deposited with D.F.O, Kinnaur for regenerating equivalent amount of degraded forest area, in addition to the condition no. 2 (submitted with previous compliance report). No activity has been taken up yet by the concerned department.
16	The User Agency shall submit annual self monitoring report indicating status of compliance to the conditions stipulated in the approval, to the state government and the concerned Regional Office of the Ministry.	and comply with the condition. Last compliance report has been submitted to MoEF, Regional Office Chandigarh on 10/12/2014 (Annexure-III).
17	All other conditions including standard conditions applicable to the proposals under Forest Conservation Act, 1980 and under different rules regulations and guidelines including Environmental Clearance and rehabilitation shall be complied with before transfer of forest land.	

2. Environment Clearance: Environment Clearance for the project was granted by MoEF vide F.no. J-12011/58/2007-IA-I, dated 19th May 2011 (submitted with previous compliance report).

Conditions stipulated under Environmental Clearance Part A- Specific Conditions (i) The following Catchment Area Treatment Plan, as proposed in the EIA/EMP Report shall be completed in 5 years-	CAMI Karch	of RS PA ac	count in	lieu of dated	CAT	deposited in Adhoc Plan for Shongtong 2012. No physical
Treatment Measures	I	II	III	IV	V	Total
	Year	Year	Year	Year	Year	
A) Biological Measures		,		li a c	100	T 101
Afforestation/Gap plantation (ha)	81	80	80	80	80	401
Pasture Development (ha)	476	475	470	470	470	2361
Nursery Development (nos.)	5	5			<u>a</u>	10
B) Engineering Measures	-	lu.				N 18
Step Drain (Rmt.)	57	57	57	57	57	285
Check Dams (nos.)	5	5	5	5	5	25
(ii) The details of the land I project affected persons whose land acquired shall be submitted to this Mir benefits for the land losing households per the National Rehabilitation and Re Policy, 2007 (NRRP, 2007) or as per Rehabilitation and Resettlement whichever is higher. Adequate public compensation package shall be giv affected villagers. All R&R Issues completed before commissioning of the	is beinistry. Twill be settlement the Standing for the shall e Project	ing R drine as H or ate (strong p the be be et.	ehabilita uly app (imachal f the land submitte eport). roject as eing pre	tion an roved a Pradesh d losers to with The Fin per the pared.	d Reset and not . The de has been h pro al Rese policy/g	losers will be as per telement of HPPCL diffied by Govt. of tetail of land holdings a submitted to MoEF. Evious compliance telement Plan of the guidelines of ADB is the during the public le during the public
(iii) All commitments made public hearing shall be fulfilled complete.	etely.	h	earing a			

(iv) A scientific study from a reputed institute for deciding the minimum environmental flow to be released during the lean season should be undertaken. Till the study is completed, 20 % of the average flow of four consecutive leanest months of 90% dependable year shall be maintained as environmental flow. After the study is completed, whichever is higher figure shall be adopted.

The environmental flow assessment study has been conducted by NIH Roorkee.

(Annexure-IV)

(v) The equipment likely to generate high noise level during the construction period or otherwise shall meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under Environment Protection Act. (EPA), 1986.

Acoustic enclosures on three no. DG sets have been provided.

(vi) Consolidation and compilation of the muck shall be carried-out only in the designated muck dumping sites, approved by the State Pollution Control Board. As per the proposed muck disposal plan given in your EIA/EMP, about 3.57Mm³ Will be generated out of which 0.47 Mm³ will be reutilized for back and $1.05 \, \mathrm{Mm}^3$ filling as construction material/protection works and remaining 2.04 Mm³ shall be disposed off at 8 designated disposal areas. This shall be strictly implemented. The dumping sites shall be at least 30m horizontally away from the high flood level of the river.

Being complied with. The latest Muck Statement has been enclosed as (Annexure-V).

(vii) The proposed Compensatory Afforestation Programme on 128 ha. Of land with identified plant species @ 1500 plants per hectare shall be taken-up immediately. The allocated funds for this purpose shall not be diverted to any other purpose.

The cost for Compensatory Afforestation amounting to Rs. 1,74,65,952 has been deposited with HP Forests Department, GoHP.

The revised Fisheries Management Plan submitted vide letter NO. HPPCL/ESMU_2/Shongtong/09-1658-61 dated 9 february, 2010 shall be undertaken in consultation with the Fisheries Department, Government of Himachal Pradesh. Breeding and hatching of indigenous fish i.e. Snow Trout will be carried out separately. The same shall also be followed in the proposed hatchery at Sangla with separate bays. (x) The proposed Wildlife Management & Development and Conservation of Biodiversity Plans at a cost of Rs. 764.50 lakhs shall be taken-up strictly as outlined in the EIA/EMP Report and implemented in consultation with the State Forest Department without any diversion of funds. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry. (xi) About 1.5% of the total project cost shall be spent for the Local Area Development. (xii) Any other clearance from any other organization/department, if required shall be obtained. (xiii) Any other clearance from any other organization/department, if required shall be obtained. (xiii) Adequate arrangement for providing free fuel like kcrosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented. (xiii) 318 (xiii) 319 (xiiii) 319 (xiii) 319 (xiiii) 319 (xiiiii) 319 (xiiii) 319 (xiiiii) 319 (xiiiiii) 319 (xiiiiii) 319 (xiiiiiii) 319 (xiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	(viii) Greenbelt development in 40 ha of land along the approach roads, residential areas, office complex, barrage site and other working areas with various native plant species shall be undertaken immediately. The allocated budget of Rs. 40 lakhs for this purpose shall not be diverted to any other purpose.	Department shortly after the NH-5 widening work being completed by Border Road Organization and H.P.P.W.D is completed.
& Development and Conservation of Biodiversity Plans at a cost of Rs. 764.50 lakhs shall be taken-up strictly as outlined in the EIA/EMP Report and implemented in consultation with the State Forest Department without any diversion of funds. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry. (xi) About 1.5% of the total project cost shall be spent for the Local Area Development. (xii) Any other clearance from any other organization/department, if required shall be obtained. Part-B General Conditions (i) Adequate arrangement for providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013.	Plan submitted vide letter NO. HPPCL/ESMU-2/Shongtong/09-1658-61 dated 9th February, 2010 shall be undertaken in consultation with the Fisheries Department, Government of Himachal Pradesh. Breeding and hatching of indigenous fish i.e. Snow Trout will be carried out separately. The same shall also be followed in the proposed hatchery at Sangla with separate	by the Director - cum - warden of Fisheries, GoHP has been released. The status of Fisheries management plan has been sought from the fisheries department.2nd Instalment will be released after Utilization Certificate of
& Development and Conservation of Biodiversity Plans at a cost of Rs. 764.50 lakhs shall be taken-up strictly as outlined in the EIA/EMP Report and implemented in consultation with the State Forest Department without any diversion of funds. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry. (xi) About 1.5% of the total project cost shall be spent for the Local Area Development. (xii) Any other clearance from any other organization/department, if required shall be obtained. Part-B General Conditions (i) Adequate arrangement for providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013. Kinnaur Forests Division and DFO (Wildlife), Sarahan on dated 18/09/2013.	* "	B
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(i) Adequate arrangement for providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented. Year/ Period No. of Quantum of free fuel expenditure engaged supplied or contract subsidy wise provided Till 31 st 115 138 250000/-	organization/department, if required shall be	Himachal Pradesh State Pollution Control Board has been obtained till March 2015. The
providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented. Period Labourers of free fuel supplied or supplied or subsidy wise provided Till 31 st 115 138 250000/-	Part-B Genera	l Conditions
1 10 2500001-	providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling	Period Labourers of free fuel expenditur engaged supplied or e incurred contract subsidy (Rs.) wise provided
	or also to provented.	1

(ii) Medical facilities as well as recreational facilities shall also be provided to the labours.	project area.
 (iii) Labourers to be engaged for construction work shall be thoroughly examined by health personnel and adequately treated before issuing them work permit. (iv) No fugitive dust emissions should 	Till 31st 213 nos. (203 minor checkups and 10 First Aid)
be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.	The condition is being complied with. The DG sets have been provided with acoustic enclosures. Sprinkling water tanker has been deployed.
(v) Potable drinking water and proper sanitary facilities shall be provided for the labour force and the local area people.	•
(vi) Restoration of construction area including dumping sites shall be ensured by levelling, filling up of burrow pits, landscaping etc. The area shall be properly treated with suitable plantation.	The plantation work will be taken up after the muck dumping has been completed. The gabion walls have been provided at each dumping site and are being strengthened by providing Cement Concrete Cladding.
(vii) Separate financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures. The same shall be informed to the Ministry.	The condition has been complied with; separate provisions in EMP under various chapters/heads have been made for implementation of suggested measures.
(viii) Environmental parameters shall be monitored and six monthly monitoring reports shall be submitted to the Regional Office of the Ministry and State Pollution Control Board for their review.	The condition is being complied with. Last Six monthly report was submitted to the MoEF, Regional Office Chandigarh on dated 22/12/2014 (Annexure-VIII).
(ix) A Multi-Disciplinary Committee (MDC) to monitor environmental safeguards during the construction shall be constituted by the Ministry on the suggestions of the Proponent; Six monthly monitoring report of this Committee shall be displayed on the web-site of the Proponent.	An Ecological Monitoring Unit has been set up at Project Level with Divisional Forest Officer, Kinnaur as its Chairman.
(x) Videography of the project area shall be carried out to ascertain that no damage occurs to the houses of the villagers/local people and in case any damage occurs; the PP shall pay compensation for the damages.	The Videography of the entire Project Affected Area has been done along with water resources inventory. (submitted with previous compliance report)

The Project Proponent shall provide full cooperation and all required documents / data to the Officials of relevant Regional Office of MOEF who would be monitoring the implementation of environmental safeguards. Besides the above stated conditions, the Project Proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the ELA/EMP report and other reports from time to time. The environmental management plan shall be strictly adhered to and a sum of Rs. 843.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose. Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry. The Ministry reserves the right to add additional Safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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.	The Project Proponent shall provide full	The tree to the tree tree to the tree to the tree to the tree to the tree tree to the tree tree to the
Besides the above stated conditions, the Project Proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The environmental management plan shall be strictly adhered to and a sum of Rs. 843.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose. Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry. The Ministry reserves the right to add additional Safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	the Officials of relevant Regional Office of MOEF who would be monitoring the	when required by MoEF.
EIA/EMP report and other reports from time to time. The environmental management plan shall be strictly adhered to and a sum of Rs. 843.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose. Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry. The Ministry reserves the right to add additional Safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	Besides the above stated conditions, the Project Proponent and Government of Himachal Pradesh shall also implement all other	are at Part-B.
Strictly adhered to and a sum of Rs. 843.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose. Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry. The Ministry reserves the right to add additional Safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	EIA/EMP report and other reports from time to time.	
intimated to the Ministry and fresh approval if required, shall be taken from the Ministry. Appraisal Committee has been held on 16th Oct 2014 at MoEF, New Delhi for revalidation of Environmental Clearance due to enhancement of installed capacity. The same is being pursued. The Ministry reserves the right to add additional Safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	strictly adhered to and a sum of Rs. 843.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose.	of EMP has increased due to HP Govt. notification regarding CAT Plan and
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. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	intimated to the Ministry and fresh approval if required, shall be taken from the Ministry.	Appraisal Committee has been held on 16 th Oct 2014 at MoEF, New Delhi for revalidation of Environmental Clearance due to enhancement of installed capacity. The same is being pursued.
This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	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	Pertains to MoEF
years from the date of issue of this letter for commencement of construction work. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	satisfactory manner.	e p
the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the 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	years from the date of issue of this letter for	Pertains to MoEF
clearance letter shall also be put on the website	the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom any suggestions/ representations, if any, were	(submitted with previous compliance
	clearance letter shall also be put on the website	

The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.enyfor.nic.in.

The condition has been complied with (submitted with previous compliance report).

After 5 years of the commissioning of the Project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.

The condition will be complied with.

The Project Proponent shall submit six monthly compliance reports of the stipulated EC conditions and the monitoring data (both in hard copies as well by e.mail) to the respective Regional office of MoEF and the State Pollution Control Board. Both monitoring and compliance reports shall be up-loaded on the Web-site of the Proponent.

The condition is being complied with (submitted with previous compliance report).

3. Fulfilment of commitments made in Public Hearing-I&II:

Detail of issues raised during Public Hearing on 28.07.2009 and 29.07.2009 for Shongtong-Karchham HEP (Powari-Ralli), organized by H. P. State Pollution Control Board at village Powari and Ralli, Tehsil Kalpa, Distt. Kinnaur H.P. respectively:-

Sr.	Issues Raised at Powari	Remarks on the issue	Activities done
No.		raised	Activities dolle
1,	The representative of the public raised an objection that project affected families indicated in R&R plan (rehabilitation and resettlement) is 158 whereas in the earlier R&R plan it was 438 and it was verbally assured by MD, HPPCL to include all 438 families in R&R plan. Therefore, till all the 438 families of Kalpa and Shudharang villages are not covered under project affected families the R&R plan should not be finalized.	under consideration of MD, HPPCL.	This issue of R&R is under consideration of MPP& Power Deptt., GoHP.
2.	Cremation ground near dumping No. 3 should be protected.	Project Proponent has assured that the cremation ground shall be protected.	No dumping has been done in DS no. 3 till date. The GP Shudharang has been consulted and the issue was discussed at Gram Sabha meeting on 04.01.2015. (Annexure-IX)
3.	Confluence point of Tangling Nallah and Satluj river is a holy place which is used for local rituals. Local people have traditional rights and it should be protected and the Confluence point should be developed properly by the project proponent.	Project Proponent has assured that Confluence point of Tangling Nallah and Satluj shall be developed. A bridge on Tangling Nallah has been proposed.	A bridge on Tangling Nallah has been strengthened.
4.	Local people have customary rights to collect forest produce such as herbs, medicine plants etc.	All the customary rights related to the forest produce will be protected	One of the Panchayat's, i.e. GP Powari has been given Rs. 3.00 crore in

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	will be damaged and will affect the income source, therefore all the people of Distt. Kinnaus should be included in project affected families.	taken so that there is no damage to the fores	the customary forest rights of the natives as the forest land has been diverted for the construction of the
5.	Studies on the affect on downstream projects due to desilting has not been done in EIA/EMP.	Project Proponent agreed to conduct studies.	Sedimentation Chambers four in nos. has been provided for desilting, so no impact on Down Stream projects is envisaged.
6.	Impact on water sources and biodiversity due to blasting during construction have not been indicated in EIA/EMP.	Project Proponent agreed to conduct studies.	Inventorisation of all the water sources in the project area along with Videography of the households has been done.
7.	Design of the project is on the bases of ten years data and viability of the project is not properly designed.	Project proponent clarified that viability of the project has been properly designed.	NIL
8.	Alignment of the power project has been indicated in the EIA/EMP (Figure No. 1) on the right bank of river Satluj where as in figure No. 2 it is shown on the left bank of the river Satluj.	It will be corrected by project proponent.	It has been corrected.
9.	In EIA/EMP para-7.5 page No. 7-18 it is mentioned that sand and grit has been collected by M/s JP Karchham Wangtoo Project from	Sand quarry/grit will be collected as per para- 7.5 page no. 7-18 near village	Sand quarry/grit will be collected from quarry site at village Powari which is in submergence area of

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	village Jangi and the same query will be used by HPPCL but as a matter of fact this quarry has never been used by M/s J.P. Karchham Wangtoo Project, which indicates the negligent attitude of agency preparing EIA and as such the data given in EIA is doubtful.		the project.
10.	All the muck dumping sits indicated in the EIA/EMP is on the bank of river Satluj, which is in the flood zone area. In EIA/EMP design of dumping sits has not been shown. What will be the distance of dumping sits from HFL and what will be the angle of repose of muck has not been indicated.	Project . Proponent clarified that Muck will be dumped in safe designated dumping sites away from HFL and with adequate safe engineering structure so that there is no seepage of muck into river.	Muck management Plan as approved by MoEF is being implemented. Monthly muck statement is being submitted to HPSPCB every month.
11.	Due to construction of tunnels in Kinnaur, the fragile areas are being damaged which can be protected by the use of Tunnel Boring Machine as being used in Parvati Hydel Power Project in Kullu District. There is no mention of TBM in EIA/EMP. It was suggested that TBM should be used for construction of tunnels in Distt. Kinnaur.	It was assured by project proponent that if technically, it is possible, TBM can be used.	As per the Geological strata around the project area and the alignment of the project using TBM is not possible.
12.	Distt. Kinnaur is in Seismic zone - 4 and in the past Kinnaur has observed heavy earthquakes. Therefore, big projects should not come up in Kinnaur. In EIA/EMP seismic factor has not been taken in to consideration.	Seismically project has been designed.	The work for installation of five no. Seismographs in all the four Panchayat's has been completed.
13.	The existence of all the projects in river Satluj basin is in danger because of no international treaty with China on Satluj river. China	No comments.	NIL

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	has constructed many big projects on Satluj basin and is planning to divert Satluj water to Eastern Tibet which is likely to affect the projects in future. All these aspects has not been mentioned in EIA/EMP.		ii.
14.	Alternative suggestions have been given in EIA/EMP. Suggestion No. 1 to construct Dam at Shongtong and to construct tunnel on the right bank of river Satluj is the best option but it has been rejected because of Army Camp near to the proposed Dam. In view of environmental impact and to save property of local people, the suggestion No. 1 may be looked upon.	On the basis of technical studies conducted it was decided to construct HRT on the left bank of river Satluj.	NIL
15.	It is apprehended that the religious place, Kinner Kailash and Shivling will be damaged due to construction of Head Race Tunnel. In such an eventuality the religious sentiments of local people will be hurt and due to melting of glaciers on Kinner Kailash mountain flood situation can be observed. Whereas this aspect is not been addressed in EIA/EMP.	On the basis of studies conducted it was observed that Kinner-Kailash and Shivling are at sufficient height and there is to such threat to Kinner Kailash and Shivling.	The same has been submitted to MoEF while obtaining Environmental Clearance of the project.
16.	In view of the fact that number of big projects are coming up in Satluj basin and in the year 1988, 1993,1997, 2000 and 2005 devastating floods were observed in river Satluj, therefore study on cumulative impact is required and Disaster management plan should be prepared.	Project Proponent informed that disaster management plan shall be prepared.	Dam Break Analysis and Disaster Management plan has been prepared. (submitted with previous compliance report)

17.	2 % royalty should be given as per Gov. Of India National	Project proponent informed that the issue is	The state Govt, has ruled for 1 % royalty as per its
	Hydro-Power policy 2008. Whereas instead of this in	under consideration of state govt.	norms.
	EIA/EMP only 100 unit free powers for 10 years has been	4	-
	mentioned. Provision of 2 % royalty should be made in R &R	~	8
	plan.		
18.	As per Himachal Pradesh hydro power policy 2006 provision 15 % release of water from the dam and to provide 70 % employment to the Himachali's have not been mentioned in EIA/EMP.	As per govt, notification 15% water will be discharged and 70% employment will be given to Himachalies.	Environmental flow assessment study has been conducted by NIH Roorkee as per the directions of MoEF.
19.	The detail of transmission line is not mentioned in EIA/EMP plan. It is also not mentioned whether there will be separate transmission line or it will be transmitted through integrated transmission line and separate environmental clearance will be obtained for transmission land.	EIA/EMP has been prepared on the bases of TOR approved by MoEF. Further it was clarified by project proponent that up to Wangtoo separate transmission line shall be provided and for transmission line environmental clearance is not required.	As per the latest notification from Govt. of India the transmission lines for the project above 250 MW will be done by Power Grid Corporation India Ltd. (PGCIL).
20.	In case the project is sold/transferred to any other company in such case fresh NOC of Gram Panchayat should be obtained.	Project proponent clarified that this project will not be sold/transferred to any other company.	It is submitted that the project has not been sold/transferred to any other company.
21.	Definition of main project affected family is not in accordance to the R & R policy of 2007 of Govt. of India.	It is as per R &R Plan approved by HP State Govt. vide letter No. Rev. (PC)A(10)-7/2008,dated 19.1.2009.	Followed up as per R &R Plan approved by HP State Govt.
22.	Base line date of Air quality of the area is mentioned in EIA/EMP but prediction of enhancement of Air pollution has not been given	Project proponent informed that studies will be conducted on this	The Air, Water and Noise pollution and prevention Acts are being strictly adhered with. The

	and impact on flam Course !	T. C.	
	and impact on flora-fauna is also not mentioned in EIA/EMP.	issue.	Reports of Air, Water and Noise has been enclosed ad Annexure-X.
23.	Construction of tunnels and blasting operation will have adverse impact on water sources, is not mentioned in EIA/EMP and how it will be compensated should be made clear.	Proponent, IPH and	of members of Project Proponent, IPH and
-24.	Compensation for acquiring land should be through negotiation.	The project proponent agreed for negotiation.	Land has been acquired after negotiation with the land holders.
25.	Which area will be developed under CAT plan is not mentioned. Implementation of CAT plan should be prepared on annual basis and Implementation of CAT plan should be under taken consultation of local people/Panchayat.	Implementation CAT plan is to be done by forest department.	Total of Rs. 60.44 crore has been deposited in Adoch-CAMPA in lieu of CAT Plan.
26,	Health survey of workers should be conducted.	Agreed by project proponent.	Is being conducted.
27.	25 % employment should be given to the local people.	Employment will be provided to the local people in accordance to the notification of H.P. Government.	Annexure-XI

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28.	All males above the age of 18	Project Proponent	NIL
	years should be treated a separate	informed that there is no	
	family and should be incorporated	such provision in R & R	
	in R & R plan. As forest produce	plan approved by the	
	is likely to be destroyed due to	State Govt.	
	construction of project, therefore,		
	families which are depending		
	upon forest produce for their		
- 32	livelihood should also be added in		
	project affected families.		
29.	Due to submergence of sand /	Project proponent assured	Not started yet as the
	grits quarry in the project local	to give only free sand grit	stone crushers are yet to
	people should be provided	to construct two rooms set	be installed.
	sand/grits and it should be made	to each PAF.	
	available through for next 40		141
	years and there should be		
	agreement between local people		RI .
	and project proponent.		
30.	RCC structure should be provided	Project Proponent agreed	Will be taken up when
	along the banks of reservoir in	to provide RCC structure	after the diversion work
	order to avoid land slide.	along the banks of	completed.
F		reservoir.	
	A CONTRACTOR OF THE CONTRACTOR	1.12	* 30.10

Sr.	Issues Raised at Ralli	Remarks on the issue	Status Till date
No.		raised	
1,	Dust from the construction of project is likely to pose serious health problems and will cause damage to orchards and crops which has not been indicated in EIA/EMP report, solution to this problem should be indicated in EIA/EMP	construction of project have been suggested in EIA/EMP report, which has been assured by the	

		health of local people. Moreover, the same is also checked by HPSPCB time to time.	
2.	Two stone crushers are proposed to be established by the HPPCL. Mebar and Ralli villagers will be mostly affected. These villages should be properly compensated by the project proponent in case of damage caused by establishing stone crusher.		Stone crushers are yet to be constructed.
3.	Muck should be dumped in proper and safe place adequately away from HFL.	Project Proponent clarified that Muck will be dumped in safe designated dumping sites away from HFL and with adequate safe engineering structure so that there is no seepage of muck into river.	The MMP has been approved by MoEF and is being followed up diligently.
4.	Tunnel Boring Machine (TBM) should be used for construction of underground works so that there is minimum damage in the project area.	proponent that if technically, it is possible,	As per the Geological strata around the project area and the alignment of the project using TBM is not possible.
5.	Due to submergence of sand/grits quarry in the project local people should be provide sand/grits and it should damage available through for next 40 years and there should be agreement between local people and project proponent.	Project proponent assured to give only free sand grit to construct two rooms set to each PAF.	It has been assured to give only free sand grit to construct two rooms set to each PAF
6.	Provision for 2% royalty should be made in R&R plan as per	Project Proponent informed that this issue is	The state Govt. has ruled for 1 % royalty as per its

	Court of Indiana		
	Govt. of India National Hydel Power policy 2008.	under consideration of state govt.	norms.
7.	There are two water sources above villages Mebar and Ralli which are used for drinking as well as for irrigation. These sources are at the height of 10-11 thousand feet which is likely to be damaged due to construction of surge shaft. The project proponent should give in writing to provide water for drinking as well as for irrigation in case these sources are damaged due to construction of project.	of members of Project Proponent, IPH and	
8.	Compensation for acquiring land should be through negotiation by Deputy Commissioner Kinnaur.	The project proponent agreed for negotiation.	Land has been acquired after negotiation with the land holders
9.	Workers from other state employed in this project should not be allowed to vote in the elections.	Additional Magistrate informed that as per constitution of India, voting right can be exercised at only one place.	NIL

- 4. ADB Stipulations/ safeguarding measures (not covered above): NIL
- 5. Others measures: NIL

C. STAFFING POSITION

Sr. No.	Reporting Aspect	ct	Staff posted
	Environment	Management /	Assistant Engineer (Environment)- One no.
	Staff		
2.	Social and R &	Social and R & R Management	It Junior Officers (R&R) - Two nos.

	STAT	STATUS OF ENVIRONMENT MANAGEMENT PLA	AGEMENT PLAN	IN R/O SHO	N IN R/O SHONGTONG KARCHHAM HEP (450 MW) FROM 01/07/2014 TO	4 HEP (450 MW) FROM 01/07/20	14 TO 31/12/2014
			8					TOWNER OF THE
1466	Sr.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks .
	-		Compensate	ory Afforesta	tory Afforestation and Biodiversity Conservation Plan	servation Plan		
		Compensatory Afforestation	16647259	17465952	HP Forest Deptt. – DFO. Kinnaur	CA was to be done in 128 Ha. Amount for CA has been deposited with HP Forest Deptt.	No Physical activity has been reported yet	Status report has been sought from HP Forest Department.
	M dead	NpV	36830870	56960846	HP Forest Deptt. – DFO. Kinnaur	The cost of NPV has been deposited with HP Forest Deptt.	N	NIL
		Antipoaching Measures	12130000	0	HP Forest Deptt. – DFO. Wildlife, Sarahan	It includes Check Posts and salaryfor one R.O. and 9 Guards. Not taken up yet.	NIL	Will be taken up shortly with HP Forest Deptt.
	W.	Cost of Trees	6470000	8545256	HPPCL & HP Forest Deptt. – DFO, Kinnaur	ces	Demarcation of forest land has beer done.	
		Totai	72078129	82972054				
	7				CAT Plan			
		CAT Plan	701950000	604416000	HP Forest Deptt.	Total of Rs. 604.40 million has been deposited with Adhoc CAMPA, New Delhi.	Not Taken up Yet.	Refer Annexure-I
	3			Fisheri	Fisheries Managemnt Plan			

Sr.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks
	Fisheries Managemnt Plan	22600000	3500000	HP Fisheries Deptt.	In progress. UC for release of 2nd installment yet to be received.	IIZ.	Refer Annexure- VI.
4			Public F	Public Health Delivery System			
b.]	Control of Malaria	-	43974		Total of 213 nos. Laborers were medically checked.	203 minor checkup and 10 first aid	Under Process.
-	HIV/AIDS Prevention and Management	N N	0		One HIV/Awareness Cam proposed on 27th Nov. 2014.	ll Z	The camp has been shifted to Jan, 2015 due to site visit of ADB/KFW officials.
	Development of Medical Facilities	62300000	1060000	HPPCL/Contractor and State Aids Control Society (SACS)	One ambulance and dispensary deployed at project site.	Z II	Two dispensary/First Aid Posts has been made operational at Ralli and Tangling.
	Disposal of Biomedical Waste	e) 02	0		The waste so generated is being dumped at NIL designated diposal site.	NIL	
IN		Er	vironment N	Environment Management in Labor Camps	Sum		
					- 1		

Component		Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks
Provision of Heating. Accomodation, Mess Tranporation etc.	Provision of Heating, Accomodation, Mess facility, Tranporation etc.	0	2209250		Labour camps under construction.	Till date four private building has been hired as temporary labour camps.	
Provision of	Provision of Water Supply	0	0	Contractor. However	Two Borewells and Water Tanks have been provided on site.	NE	
Sanitation and Sewage Treatment Facilities	nd Sewage acilities	9000009	0	Ë	Not Taken up yet	ll Z	The Labour Colony is under construction.
Solid Waste	Solid Waste Management	4350000	0		Not Taken up yet	NIL	
Provision of Free Fuel	Free Fuel	29670000	2500000		115 nos. of labourers engaged contract wise	115 nos. of Total of 138nos. labourers LPG cylinders engaged contract provided till Dec wise	The free fuel is being provided by M/s Patel Engg. To the laborers.
Police Post		20090000	0		Not Taken up yet	NIC	
		60310000	4709250				
			Muck	Muck Management Plan			
D1:max.qua 349000 cum	D1:max.quality to be dumped 349000 cum		0		No dumping has been done	ZIC	
D2:max.qua 761645 cum	D2:max.quality to be dumped 761645 cum	Б	0		No dumping has been done	NIC	
D3:max.qua 237300 cum	D3:max.quality to be dumped 237300 cum	æ	0		No dumping has been done		
				1			

Sr.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks
- W	D4:max.quality to be dumped		0	Contractor. However will be inspected by	No dumping has been done	Work has been awarded for construction of retaining wall at DS 4, 4 PRW's engaged	No dumping has been done. Work for construction R/Wall has not started yet.
	D5:max.quality to be dumped	184,710,000	9925381	EF :	Dumping is in progress.	Total of 15 PRW's engaged and 2149 crate	
	D6:max.quality to be dumped 25750 cum		0	ı	No dumping has been done	Nil	·
	D7:max.quality to be dumped		0	ē.	ıg has	NIL	
	D8:max.quality to be dumped 187300 cum		2241410	×	Dumping is in progress.	Total of 4PRW's engaged and 448 crate wires erected.	
	Total		12166791				
7		Resto	ration and La	Restoration and Landscaping of Construction Sites	n Sites		
	Restoration of borrow area						
	Filling up the land with soil	1000000	0		Not Taken up	NIL	
	Cost of green manure	400000	0	17	Not Taken up	NIL	
	Cost of sapling (10,000 saplings/ ha) @ Rs.5.00 per sapling	20000	0	<u> </u>	: Taken up	NIL	
	Cost of fertilizers and pesticides	400000	0	<u> </u> -	Not Taken up	NIC	
	Fencing with RCC pillars and barbed wire	300000	0		. Taken up	NIL	Will be taken up
	٠			Sometification with HD			After the mining 1

Remarks	ance one mining has been completed.													€:		
Activities done	liz	JIV.	NIL	NIL		NIL			NIC	NIL	NIL	NIL	NIL	NIL		
Status on date	Not Taken up yet	Not Taken up yet	Not Taken up yet	Not Taken up	136	Not Taken up		ruction	ıken up	Taken up	Not Taken up yet	Not Taken up yet	Not Taken up	Not Taken up		
Implementation Agency	Forest Department							ironment Management in Road Construction			Del	Contractor	w V			Green Belt Development Plan
Budget Utilized	0	0	0	0	0	0	0	ronment Man								Green B
Budget Allocated in EMP	250000	100000	2000000	5000000	10500000	2000000	15500000	Env	300000	1800000	000009	420000	2000000	2000000	7120000	
Component	Maintenance activities including cleaning of weeds @ Rs.50.000 for 5 years	Digging of pits	Construction of garland drain	Bench terracing	Total	Landscaping and Restoration Plan	Total		Clearing and grubbing @ Rs.0.05 million/km for 6 km	Provision of breast walls, construction of catch water and interceptor drains @ Rs.0.30 million/km for 6 km	Provision of drainage system along roads @ Rs.0.14 million/km for 6 km	Roadside plantation, Jute matting etc. @ Rs.0.07 million/km for 6 km	Provision of water for spray @ Rs. 200/tanker for 50 tankers per day for a construction period of 200 days	Compaction of Kutcha roads	Total	
Sr. No.	₽							00		E						6

Sr. No.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks
3	Plantation in the area of 40 Hactares	4000000	0 *	HP Forest Department	Not Taken up yet	<u></u>	Will be taken up shortly after NH-5 widening and muck dumping has been completed.
10			Con	Control of Air Pollution			
	Repair of roads during construction phase	2000000	0		Not Taken up yet	ZIC	
18	3 Traffic managers @ Rs. 10,000 per month for 6 years including 10% escalation per year	2780000	88079	e E	Not Taken up yet	NIL	Startech Labs
	5 sweeper @ Rs. 5.000 per month for 6 years including 10% escalation per year	2310000	0	Contractor and supervise by HPPCL and HPSPCB	Not Taken up yet	NIL	for Monitoring of Air, Water, Noise
	Provision for water spray @ Rs. 200/ tanker for 10 tankers per day for a period of 6 years (@ escalation of 1-0% every year)	2630000	0		Not Taken up yet	Z Z	SI .
	Total	12720000	88079			95	
11			Cont	Control of Noise Pollution			
9	Construction of acoustic enclosure for DG sets	500000	0	Contractor and supervise	Not Taken up yet	NIL	Acoustic enclosures provided to all DG's at all sites.
No.	Maintenance of DG sets	600000	0		Not Taken up yet	NIL	
	Total	1100000	0				
12			Contr	Control of Water Pollution			
	Settling Tanks at various construction sites	3000000		Contractor and supervise by HPPCL and HPSPCB	Not Taken up yet	NIL	12 18
13				R&R Plan*			

Sr. No.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency	Status on date	Activities done	Remarks
	Financial Assistance under standard R&R plan	16500000	30838900	25 75	Under Process	3	
	Funds for R&R scheme	7800000	2473000		Under Process		
	Contingencies including compensation for unforeseen damages, devlopment works etc.	1500000	2988100	. HPPCL/Contractor	Under Process		
	Total	39300000	39300000			3147	
14			Environ	Environment Monitoring Plan			
	Effluent from septic tanks	•	0		Not Taken up yet	NIL	
	Water Quality (Surface)		0		Not Taken up yet	NIL	
	Water Quality (Groundwater)		0	1 Post of Date Com.	Not Taken up yet	NIL	The Equipments for Monitoring is
	Water-related diseases	28080000	0	Pollution Control Board (HPSPCR)	Not Taken up yet	NIL	for furthur
*	Noise		0		Not Taken up yet	NIL	HPSPCB for
	Air quality		0		Not Taken up yet	NIL	
	Meteorological aspects		0		Not Taken up yet	NIL	
	Environment Monitoring	4000000	4000000	Centre for Sceince and Environment, GoHP	Under Process	NIL	No information provided by the agency yet
	Total	32080000	4000000				
•		1,218,768,129	751196148				
15	Compensation due to loss of agriculture produce during construction phase	10000000	0	HPPCL	ïZ	NIL	No such claim has been demanded by the inhabitants of the area
16	Consultancy for CDM	2000000	0	HPPCL	ii.Z		

Sr. No.	Component	Budget Allocated in EMP	Budget Utilized	Implementation Agency Status on date	Status on date	Activities done	Remarks
17	Consent to Establish and its renewal	4500000	3420000	Contractor/HPPCL	In progress	Site visit done by Environment Engineer from HP State Pollution Control Board	Renewal fees for FY 2015-16 is under process.
13.50	Total	1,238,268,129	755676148				
Note:	Note: Additional amount of Rs. 13673737 for regenerating equivalent amount of degraded forest area in addition to Compensatory Afforestation as leveid by MoEF while Granting Stage-I, Foest Clearance has also been submitted to DFO, Kinnaur.	13737 for regenerat MoEF while Gran	ing equivalen ting Stage-I, l	t of Rs. 13673737 for regenerating equivalent amount of degraded forest area in addition to Compensa as leveid by MoEF while Granting Stage-I, Foest Clearance has also been submitted to DFO, Kinnaur.	est area in additi been submitted to	on to Compensate DFO, Kinnaur	ory Afforestation
	Grand Total		769349885	8			
	*The budget under R&R (point 13) has been	oint 13) has been sh	own as fully	shown as fully utilized and will be reported sepretaly after the finalisation of project RP	ted sepretaly affe	r the finalisation	of project RP

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12 Charlo			Remarks.		، (له Deg.)	ьь	21 22			9		78 15' 13"	78 15' 30"	78 15' 58"	78 18' 25"	78 16' 03"	78 22' 46"	78 25' 42"	78.24" 34"	78 26' 55"	78.37'55"	78 44' 74"	78 22' 46"	78 12' 42"	78 08' 34"	
d Shorma		221 222	15	- }	Amount GPS location (In Deg.) (B.S.)	•	19 20	3				150000 31 32' 19"	150000 31 31 39"	150000(31 35' 25"	150000 31 35' 16"	150000 31 30' 59"	150000[31 35:11"	150000 31 36'37"	150000[31 38" 54"	150000 31 40. 31"	150000 31 44' 32"				150000 31 30' 44"	2100000
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IGNE Wentlon to Kerhill	<u> </u>		Detail of APO/Targets Proposed for 2014-15		Name of Name of Area Norm Beat per		16 17	1		-		Kaipa Nry. 175	Reckong Peo L/s Nrv.	Pangi Nry.	Purbani Nry L/s	Shongtong L/s	Akpa Nry. L/s	Jangi Nry. L/s	Lippa Nry. L/s	Kanam/ L/s Surpo Nry.	Dabling Nry. L/s	corang Us	Ribba Nry. L/s	Ralli Nry. Us	Kilba Nursery Us	Total Nry
Grad At					ame of Name Beat	M 18	23					Kalpa Kai	R/Peo Rec	Pangi Pan	1	Barang Sho	Rarang Ak	Jangi Jan	Lippa . Lit	Kanam Ka	Dubling Dr	Moorang Moorang	Ribba Ri	Ralli R	Kilba	
		ar 2014-15		- 0	Name of P	-	14					Kalpa	Kalpa	Kalpa	Shongthong Purbani	Shangthong	Jangi	Jangi	Jangi	Kanam	Pooli	Ribha	Ribbe	Kilba	Kilba	
		for the Ye	71500	8	Name of Range	•	13						Kalpa ·	Kaipa	Kalpa	Kalpa	Moorang	Moorang	Moorang	Pooh	Pooh	Moorang	Moorang	Kilba	Kilba	
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Detail of APO/Largets Proposed for 2014-15	Name of Name of Area Norm Beat per		16		Danbochhe I	ochhe	died.	Dakthel slip II	Slip above I	esone	Boktoo below L/s Pangi road	Telangi slip I		Total	-	Kantung Nalla Us	Shirmoling I	Khokpa Nalla L/s	Ramchang 1	Asmo Nalla L	Aksong Nalla L/s
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	Name of Range		[]	17.70		Moorang	Moorang	Moorang	Moorang	Moorang	Kilba	Kilba	Kilba	Kilba	Kiiba	Kalpa	Kalpa	Kalpa	Pooin	Pooh	Pooh	Pooh	Pocin	
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Divisional Forest Officer, Kinnaur Forest Division at Rekong Peo. 172107



HIMACHAL PRADESH POWER CORPORATION LTD. (A State Government Undertaking)



No. HPPCL/CP/DOE/VOL- II /2014-14534-35 Dated: In 11/14

To

- 1. The General Manager, Shongtong Karcham HEP, HPPCL, Reckong-peo, Distt. Kinnaur (HP).
- 2. The General Manager, Kashang HEP, HPPCL, Reckong peo, Distt. Kinnaur (HP).



Sub:

Public Consultation Meetings on 08.12,2014 at Reckongpeo and on 09.12.2014 at Pooh - Office order thereof.

Sir,

Please find attached a copy of office order dated: 17.11.2014 issued by the Pr.Secretary (MPP&Power), Govt. of HP vide which it has been intimated that as per the recommendations of MoEF, GoI, Govt. of HP has awarded the work of study for cumulative or aggregate ecological impact of all the Hydro Projects in operation, under execution and planned for implementation in future to ICFRE, Dehradun and in order to have complete transparency in this process public consultation meetings have been fixed to be held on 08.12.2014 at Reckongpeo and on 09.12.2014 at Pooh.

A.G.M. F&A CLA P&C R&R. ". M-1

M-II

G.M.

The Directorate of Energy, GoHP has been authorized to hold these consultation meetings. It is, therefore, requested to extend all help to the Directorate of Energy for the aforesaid purpose.

This for information and necessary action please.

DA: As above

Yours faithfully,

General Manager

Registered Office: HPPCL, Himfed Bhawan, Panjri, (Below old MLA Quarters), Shimla CIN:U40101HP2006SGC030591





GOVT. OF HIMACHAL PRADESH Department of Multi Power Projects and Power

Tel No: 0177-2621897, Fax No: 2880769, E-mail-secypower-hp@nic.in

Office Order

On the recommendations of MOEF Govt. of India, Govt. of Himachal Pradesh is getting a study conducted for cumulative or aggregate ecological impact of all the Hydro Power Projects in operation, Under Execution and Planned for implementation in near future in Satluj Basin of Himachal Pradesh and study has been awarded to Indian Council of Forestry Research and Education (ICFRE) Dehradun.

In order to have complete transparency in the process of Cumulative Environment Impact Assessment Study two Stakeholders & Public Consultation Meetings have been fixed to be held on 8th December 2014 at Reckong Peo and on 9th December 2014 at Pooh. In order to organize these meetings Director and Chief Engineer (Energy), Directorate of Energy, GoHP are hereby authorized to hold the said Consultation Meetings in the public interest.

ON MAN TO SEE STATE OF

Principal Secretary (MPP & Power)
Govt. of Himachal Pradesh, Shimla-02

NO. HPDOE/CE (Energy)/Satluj Basin/2014-7390-99

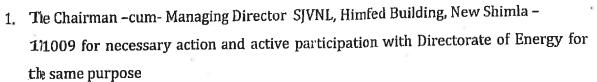
Dated: 17 11 2014

Copy to :- on Show

The Director, Directorate of Energy Shanti Bhavan New Shimla -171009 for information and necessary action please.

2) The Director, Department of Environment, Science & Technology, Paryavarn Bhawan near US Club, Shimla-171001 for information and necessary action please.

3) The Chief Engineer (Energy), Directorate of Energy Shanti Bhawan, New Shimla – 171009 for information and necessary action please.



 $\binom{3}{3}$

The Managing Director, HPPCL, Himfed Bhawan Panjiri, below old MLA Quarters,
TitiKandi, Shimla-171005. He is requested to issue the necessary direction to the
field formation at Reckong Peo and at Pooh to extend all help to Directorate of Energy
for the same purpose.

3. The Managing Director, HPSEB Ltd, Vidyut Bhawan, Shimla-171004 for necessary action and active participation with Directorate of Energy for the same purpose.

12-11-14 CES.

- 4. The Managing Director, HPPTCL Ltd, Barowalia House, Shimla-171002 for necessary action and active participation with Directorate of Energy for the same purpose.
- 5. The Principal Chief Conservator of Forests, Himachal Pradesh Forest Department,
 Talland, Shimla-171001 for necessary action and active participation with Directorate
 of Energy for the same purpose.
- The Deputy Commissioner Kinnaur at Reckong Peo, District Kinnaur (H.P) for necessary action and active participation with Directorate of Energy for the same purpose.
- Er.C.M. Walia, The Secretary General Forum of the Hydro Power Producer (HPPF)
 Top Floor Uttam Bhawan (Dogra Lodge), Near 103 Tunnel, Shimla-171004 for information and necessary action please.

Chief Engineer (Energy)
Directorate of Energy
GoHP, Shimla -09

&A

Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Peo

Phone: - 01786-222310, 222962, 222801, Fax:-01786- 223174, Email: - skhep.hppcl@gmail.com

No. HPPCL/GM-SKHEP/ Forest-VII /2014- 6278-82 Dated: - 10/12/2014

To

The Director (S),
Ministry of Environment and Forests (GOI),
Northern Regional Office,
Bays No. 24-25, Sector 31-A,
Dakshin Marg, Chandigarh-160030

The Principal Chief Conservator of Forest, Himachal Pradesh Forests Department, GoIIP, Talland, Shimla-1.

Subject: - Reg. Annual Self Monitoring Report of Shongtong-Karchham Hydro Electric Project, Himachal Pradesh Power Corporation Limited (HPPCL) in Kinnaur Forest Division in Kinnaur District of Himachal Pradesh.

Dear Sir(s),

This is in reference to your MoEF, F.no. 8-78/2010-FC, dated 14th Nov. 2012 vide which Forest Clearance was granted for diversion of 63.5015 Ha. of forest land in favour of HPPCL for the Construction of 402 MW Shongtong-Karchham Hydro Electric Project in Kinnaur Forest Division in Kinnaur District of Himachal Pradesh.

In this context, as per the condition no. 16 of the Forest Clearance please find enclosed the annual self monitoring report indicating the status of compliance to the conditions stipulated in the approval, for your kind information.

Encl: As above

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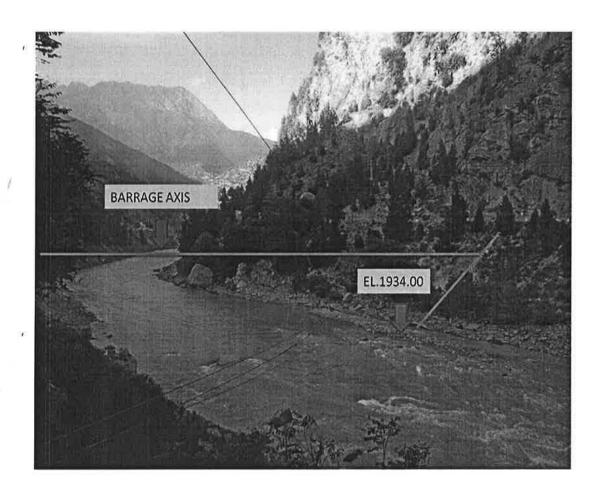
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Copy forwarded to the following for information:-

- 1 The Director (Civil), HPPCL, Himfed Bhawan, Panjri, Tutikandi, Shimla-05.
- 2 The Chief Environment Specialist, Uttam Bhawan (Dogra Lodge), Near 103 Tunnel, Shimla-4.
- 3 The Divisional Forest Officer, Kinnaur Forest Division, Kinnaur at Reckong Pco.

Annexure-15.1

Assessment of Environmental Flow Requirements in River Satluj at Shongtong Karcham Project Site





National Institute of Hydrology Roorkee

Annes - 1

PREFACE

Environmental flow refers to the quantity of water considered to be adequate for protecting the structure and function of an ecosystem and its dependent species. It means adequate quntity of water should be available in the rivers, to ensure downstream environmental, social and economic Environmental flow is compromised between the development and the ecology of the river and its assessment is required for the sustainability of the ecosystem. The two broad categories of the environmental flow assessment methods are considered which include detailed environmental flow assessment method and the desktop environmental flow assessment method.

National Institute of Hydrology, Roorkee has been actively involved in carrying out R & D studies in the area of Environmental Flow Requirement and Low Flow Analysis. Institute has carried out a number of scientific studies which includes few sponsored/consultancy projects by NTPC, NHPC and IIT Roorkee. HPPCL (Himachal Pradesh Power Corporation Limited) had requested the Institute to take up the Environmental Flow Requirement at Shongtong Karcham project site. In this study, the Environmental Flow Requirement for the Shongtong Karcham site using hydraulic method has been assessed. The study has been carried out by Dr Manohar Arora, Scientist D of Surface water hydrology division. I hope that the results of the project would be very much useful for the sustenance of the ecosystem in the Himalayan region in general and for the Satluj River between Shongtong and Karcham in particular.

January 12, 2015

Roorkee

(R. D. Singh)

Director '

Abstract: The environmental flow is the required amount of water to flow downstream to maintain the life, circulation and reproduction of aquatic species. It is an important aspect in the development of hydropower projects. The objectives are defined considering an accepted level of degradation, and generally focus on specified, valuated features of riverine ecosystem. Depending on the conservation objectives, the target biota, environmental flow release will correspond to a single minimum flow value for each seasonal flow regime. The two broad categories of the environmental flow assessment are the detailed environmental flow assessment method and the desktop environmental flow assessment method. Both the methods are further divided into several categories out of which it is the Desktop Analysis that is used mostly. All the methodologies still needs some modifications as these methodologies are not global and are data intensive.

Satluj River is one of the major Himalayan Rivers identified as a main source of hydro electric power by the Government of India as well as the State of Himachal Pradesh. Shongtong-Karcham HEP is being conceived as a run-of-the river scheme between Powari and Ralli, Village reach of Satluj river in District-Kinnaur, Himachal Pradesh. The purpose of the study is the assessment of Environmental Flow Requirement using the hydraulic rating and habitat simulation methodology in the above affected reach of the river post construction of the project for the sustenance of riverine ecosystem.

CHAPTER 15 ENVIRONMENT FLOW REQUIREMENT

15.1 INTRODUCTION

The environmental flow refers to the quantity of water considered to be adequate for protecting the structure and function of an ecosystem and its dependent species. It means adequate quantity of water should be available in the river to ensure downstream environmental, social and economic benefits. The objectives are defined considering an accepted level of degradation, and generally focus on specified, valuated features of riverine ecosystem. Depending on the conservation objectives, the target biota, environmental flow release will correspond to a single minimum flow value for each seasonal flow regime. The two broad categories of the environmental flow assessment are the detailed environmental flow assessment method and the desktop environmental flow assessment method. Both the methods are further divided into several categories out of which it is the Desktop Analysis that is used mostly. All the methodologies still needs some modifications as these methodologies are not global and are data intensive.

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The detailed study has been conducted by National Institute of Hydrology, Roorkee and has been enclosed as **Annexure-15.1**.

Introduction:

Environmental flows are required to be maintained through a river reach for sustaining its ecosystem and dependent species. It means enough water is to be released in the downstream of the river system after utilizing the water for the development projects in order to ensure downstream environmental, social and economic benefits. Realizing its importance, several countries have made ensuring environmental flows mandatory. For example, The Mekong River Agreement, 1995; South Africa's National Water Act, 1998 and the Swiss Water Protection Act, 108. These legislations attempt to ensure required minimum flow in the river system to sustain ecosystem services.

As mentioned above, there are number of methods for the computation of environmental flows. It has been observed from the literature that different methods are used in different countries considering the various flow regimes. There are four main group [Pyrce, 2004] of methods: Those are

- a) Hydrological methods
- b) Hydraulic rate methods
- c) Habitat simulation methods
- d) Holistic methods

In hydrological methods, the daily or monthly flow data series are analysed to provide the information about environmental flows. In addition, this method can be used to calculate a minimum flows for the gauged as well as ungauged streams. Furthermore, it is easier to apply the hydrological method in the planning stage itself of the water resources development project. Hydraulic, habitat and holistic methods are capable of providing more detailed knowledge for the environmental flows in the streams. However, the requirement of extensive data base and efforts needed for collective the detailed information about the flow regimes, streams and the catchment restricts the applications of those methods. The main characteristics of the different methods are summarised as below:



A) HYDROLOGICAL METHODS

- Environmental flow is calculated by using daily and monthly measurement values.
- The results may not be very precise but they can be obtained in short time.
- ◆ This method is accepted to be convenient for planning stage of a water related projects.
- ♦ The most widely used method is the Tennant (or modified Tennant) method.
- ♦ The second most widely used method include various flow duration exceedance percentiles (e.g. Q95, Q75) or single low flow indices (e.g. 7Q10, 7Q2).

Where Q95 and Q75 represent 95% and 75% dependable flows respectively whereas 7Q10 and 7Q2 represent 7 day 10 year return period and 7 day 7 year return period low flows respectively.

B) HYDRAULIC RATING METHOD

♦ This method uses changes in hydraulic variables (such as river stage or wetted perimeter) to assess the habitat factors known or assumed to be limiting to target biota, thus a threshold value of the selected hydraulic parameter will sustain biota/ecosystem integrity.

C) HABITAT RATING METHOD

- ♦ These methods attempt to assess environmental flow requirements on the basis of detailed analyses of the suitability of instream physical habitat under different flow conditions using integrated hydrological, hydraulic and biological response data.
- ♦ Flow is typically modelled using data on flow depth, channel slope, cross section shape, etc. collected at multiple cross-section within a study reach.
- ♦ The results usually take form of habitat-discharge curves to predict optimum flows as environmental flow requirements.

D) HOLISTIC METHOD

- ♦ The requirements of the complete ecosystem are integrated and considered (including the river channel, source areas, riparian zone, floodplain, etc.).
- ♦ The natural regime of the river is the fundamental guide and must be incorporated into the modified flow regimes.

- ♦ Critical flow criteria are identified for some or all major components of the riverine ecosystem.
- ♦ The basis for most approaches is a systematic construction of a modified flow regime on a month by month and element by element basis which defines features of the flow regime to achieve particular ecological, geomorphological, water quality, social or other objectives of the modified system.
- ♦ Advanced holistic methods routinely utilize several of the tools found in hydrologic, hydraulic and habitat rating methods.

Figure 1 Illustrates a chart showing various Environmental assessment methods.

Shongtong-Karcham HEP is being conceived as a run-of-the river scheme between Powari and Ralli, Village reach of Satluj river in District-Kinnaur, Himachal Pradesh. The purpose of the study is the assessment of Environmental Flow Requirement in the above affected reach of the river post construction of the project for the sustenance of riverine ecosystem.

Objective of the study:

The main objective of the study is to estimate the environmental flows in Satluj River d/s of the Shongtong Karcham project site for maintaining its ecosystem and dependent species during the post project period. In this regard, the data/information provided by HPPCL are analysed using the hydrologic methods.

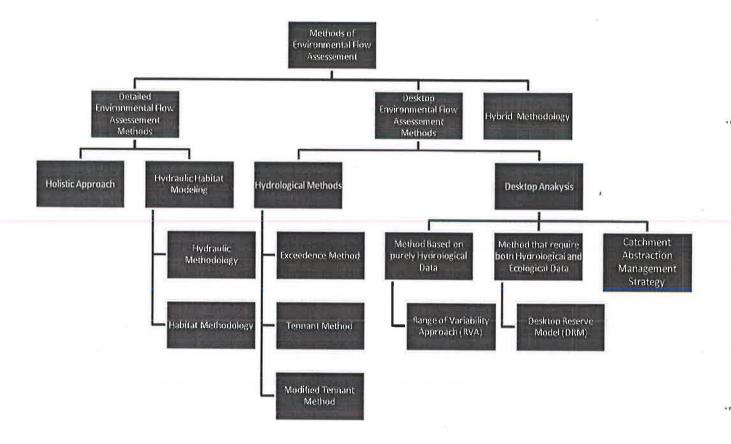


Figure 1: Chart showing Environmental Flow Assessment Methods

Salient Features of Shongtong Karcham project:

The Shongtong Karcham Hydro-Electric Project is run-of-the river scheme on the main Satluj River, in the reach between Karcham and Shongtong villages. Along Satluj, the diversion site of the project is proposed at about 77 km d/s of Ship Kila and about 35 km u/s of Nathpa dam of the Nathpa Jhakri project. Catchment area upto Shontong barrage site is 47132 Sq. Km. The long term discharge series at Shongtong barrage site has been developed on proportionate catchment area basis from the observed discharge series at Rampur and corrected observed/discharge series at Khab as follows:

 $Q_{Shongtong} = Q_{Khab} + (Q_{Rampur} - Q_{khab})*(C\Lambda between Khab and Shongtong/CA between Khab & Rampur)$

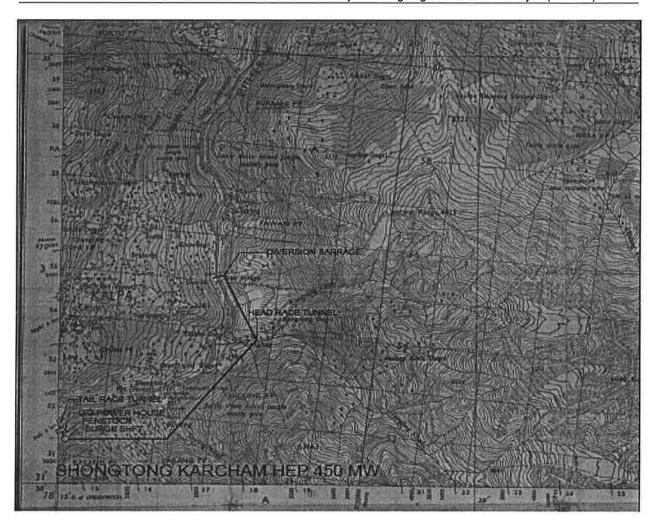


Figure 2: Shongtong-Karcham HEP a run-of-the river scheme between Powari and Ralli, Village reach of Satluj river in District-Kinnaur, Himachal Pradesh

Data/Information available for the study:

HPPCL has made available the following data/information for carrying out the study:

- 1. Computed Ten Daily discharge data of Satluj River at Shongtong (cumec) from 1971 to 2006.
- 2. Observed Ten Daily discharge data of Satluj River at Rampur (cumec) from 1971 to 2006.
- 3. Computed Ten Daily discharge data of Satluj River at Powari (cumec) from 1997 to 2011.
- 4. Observed Ten Daily discharge data of Satluj River at Ralli (cumec) from 2009 to 2011.
- 5. Detailed Project Report VOLUME I: Engineering

Methodology:

In this study basin, a combination of hydraulic rating methodologies and habitat simulations have been used. The primary reason for applying this method is its objectivity, availability of data including river cross-sections and better applicability to quantify the environmental flow in a scientific manner. Normally in case of hydro power projects in Himalayas the water is again discharged into rivers after power generation. Hence, hydraulic rating cum habitat simulation methodology can be considered a better approach in conjunction with other methodologies.

Environmental flow regime has been worked out keeping annual occurrence of following main season in this region. These are:

- (a) Season I: This season is considered as low or lean or dry flow season which covers the months from December to March.
- (b) Season II: It is considered as high flow season influenced by monsoon. It covers the months from June to September.
- (c) Season III: This season is considered as average flow period, covers the months of April, May and October, November.

Geometric data (River cross sections)

The critical reach of river for any hydro electric project is the river reach between dam site and TRT outfall of the project due to diversion of flow from the intake of the project. In this reach of the river there may be number of small Nalla joining the main river. Hence, the most critical river reach for estimating the environmental flow release is the reach of river from the dam site of the project till the confluence of first major Nallah/stream. In this reach of river the available discharge will be only the environmental flow release from the respective hydroelectric project. To estimate the hydraulic parameters of river for different flow conditions, this reach of the river for each project has been represented in one dimensional mathematical model HEC-RAS through a close grid of river cross sections. The river reaches in the present study are the mountain streams with steep bank

and bed consisting of cobbles and large boulders, where the normal value of Manning's n can be adopted from 0.040 to 0.050. As the depth of water for a given discharge will be more for a higher value of manning's n, hence, to get a conservative estimate of water depth the Manning's n has been adopted as 0.040.

Assessment of Environmental Flow Releases from Shongtong Karcham HEP in Satluj basin of Himachal Pradesh

The layout of river network in HEC-RAS model and the longitunal profile are shown in Figure 3 & 4 respectively. The HEC-RAS model set up used for estimating hydraulic parameters like depth of flow, top flow width and velocity of flow corresponding to different percentage releases of the flow for the three seasons in 90% dependable year is shown in Figure 5. The water surface profiles at different cross sections for different seasons are shown in Figure 6 ((a) - (k)). The flow of Satluj river during the different seasons of 90% dependable year is shown in Table 1. The estimated flow parameters for some of the release conditions are given in Table 2.

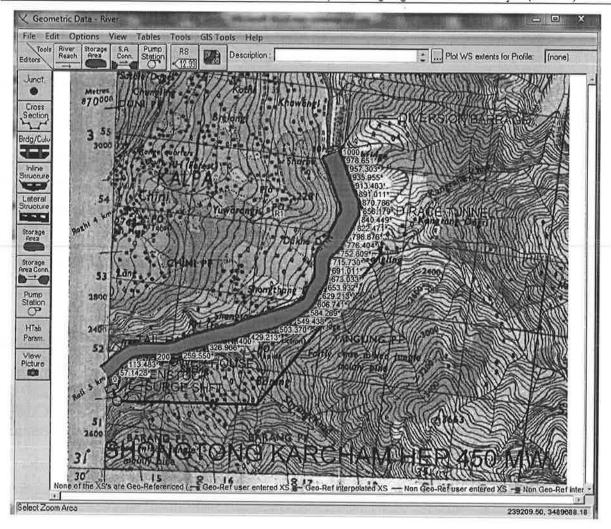


Figure 3: Layout of river network in HEC-RAS model.

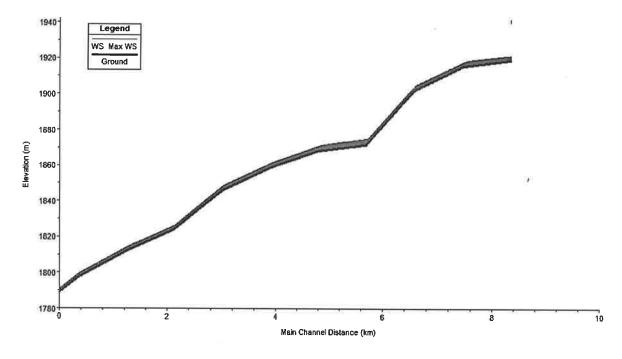


Figure 4: Longitudanl Profile of river.

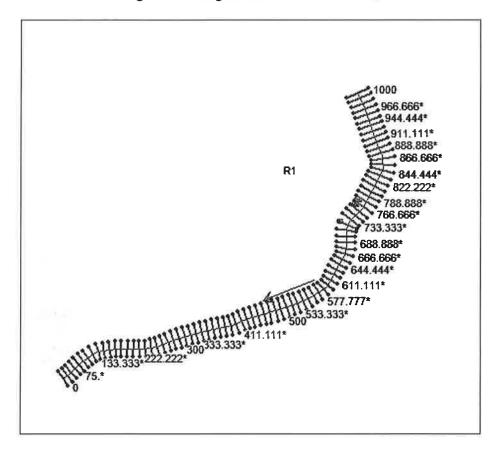
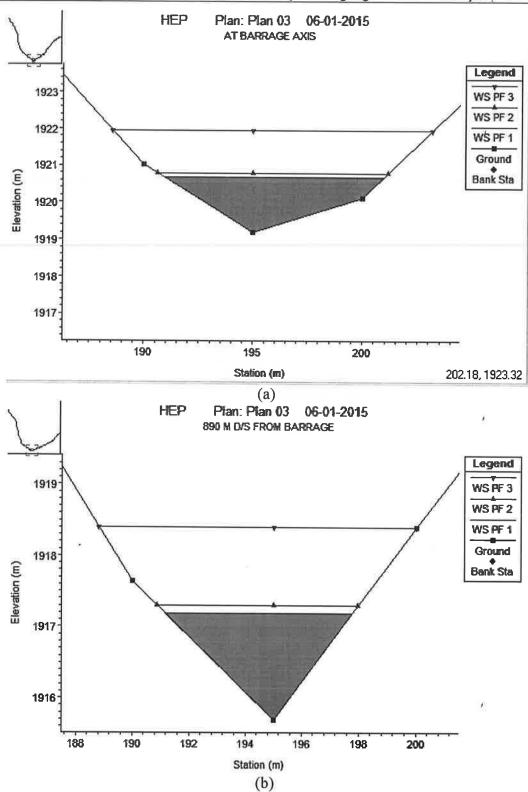
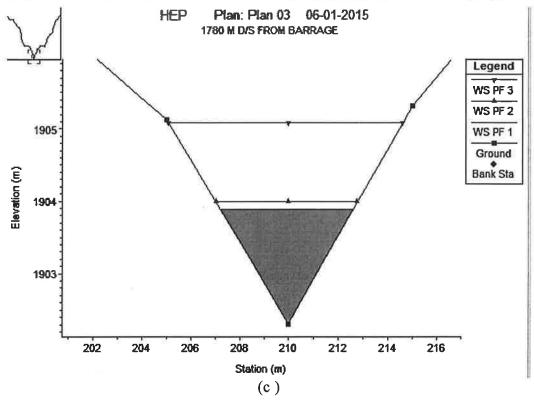
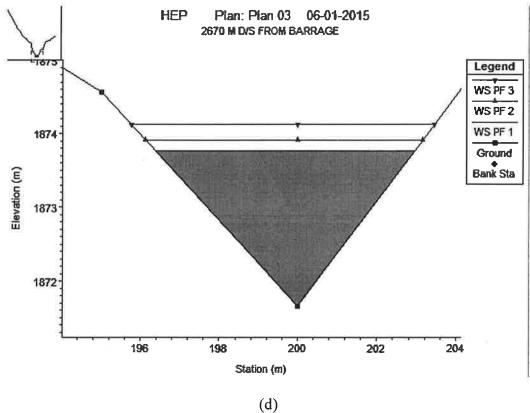
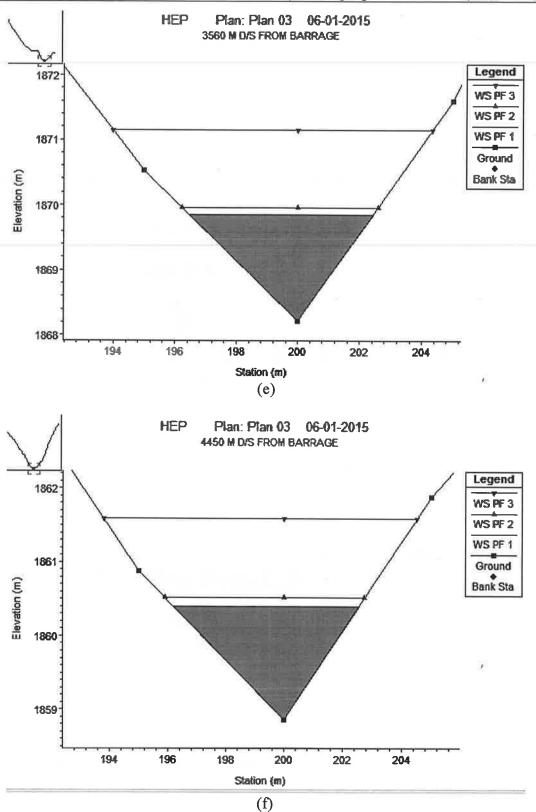


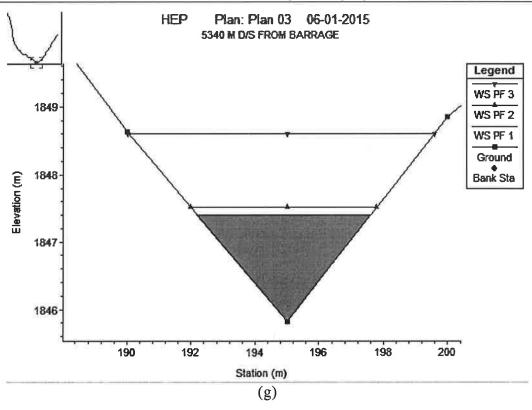
Figure 5: HEC-RAS Model set up for Environmental flow computation of Shongtong Karcham HEP.

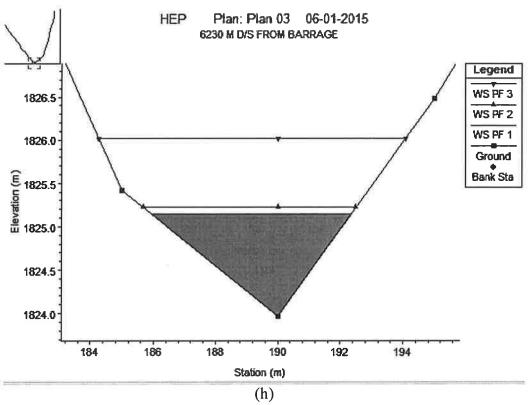


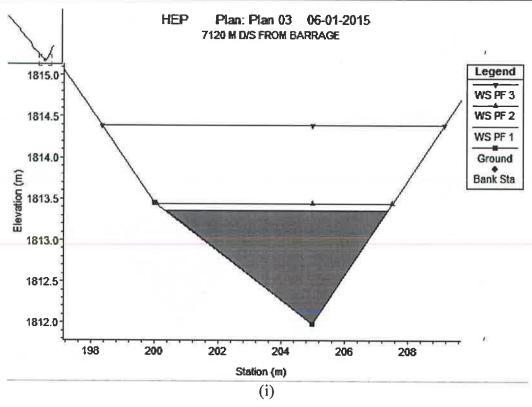


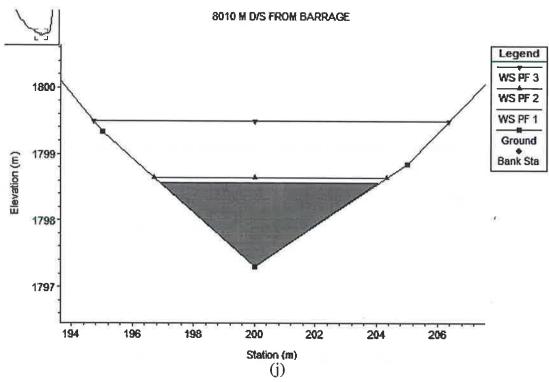


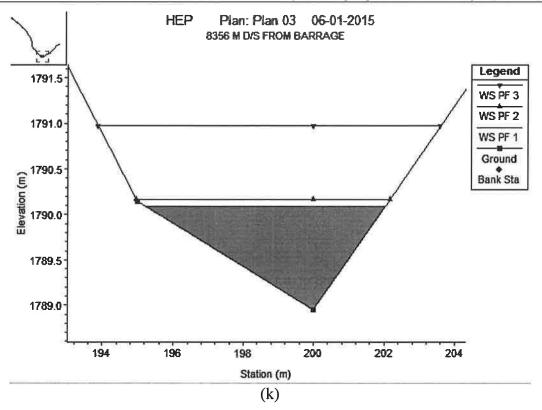












Leanest	4 months o	f 90% dependable year	Monsoo	n 4 months	of 90% dependable	year	Other 4 months of 90% dependable yea				
Month	10 daily	Flow (Cumec)	Month	10 daily	Flow (Cumec)	_	Month	10 daily	Flow (Cumec)		
	ı	80.58		ı	247.38			1	118.37		
Dec	H	73.55	June	U	363.94		Oct	11	108.53		
	III	72.14		III	406.26			III	101.37		
	1	68.73		Í	389.3			1	98.22		
Jan	II	66.72	July	11	494.89		Nov	11	93.79		
J.	IH	66.14		III	661.02			III	86.5		
	1	62.99		ı	676.04			1	73.74		
Feb	11	63.61	August	II	449.91		Apr	11	79.48		
	111	64.16		III	376.85			III	86.29		
	1	64.84		1	333.51			1	117.2		
Mar	B	63.32	Sept	II	228.79		May	111	176.42		
	111	69.04		111	161.77			III	147.31		
	Avg	67.985		Avg	399.1383			Avg	107.2683		
% rele	ase of avg		% releas	e of avg			% releas	e of avg			
	10%	6.7985	1	10%	39.91383			10%	10.72683		
	15%	10.19775	1	15%	59.87075			15%	16.09025		
	20%	13.597	2	20%	79.82767			20%	21.45367		
:	30%	20.3955	3	30%	119.7415			30%	32.1805		
	40%	27.194		10%	159.6553			10%	150.1757		
	50%	33.9925	5	50%	199.5692		2	50%	53.63417		
1	.00%	67.98	1	00%	399.1383		1	00%	107.2683		

Table 1 : Flow in River Satluj at Shongtong Karcham HEP in 90% dependable year

Reach	Profile	Q Total	Bed	Water Surface	water	Flow	Тор
			Elevation	Elevation	depth	Velocity	Width
		(m3/s)	(m)	(m)	(m)	(m/s)	(m)
AT BARRAGE AXIS	PF 1 (20% release)	13.56	1919.18	1920.85	1.67	1.32	10.84
890 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1915.69	1917.28	1.59	2.43	7.01
1780 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1902.31	1903.97	1.66	2.86	5.71
2670 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1871.65	1874.01	2.36	1.57	7.32
3560 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1868.21	1870.04	1.83	2.23	6.67
4450 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1858.86	1860.5	1.64	2.44	6.78
5340 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1845.82	1847.48	1.66	2.86	5.7
6230 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1823.96	1825.45	1.49	2.28	7.97
7120 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1811.99	1813.45	1.46	2.48	7.49
8010 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1797.3	1798.66	1.36	2.58	7.73
8356 M D/S FROM BARRAGE	PF 1 (20% release)	13.56	1788.95	1790.23	1.28	2.8	7.38
			Avera	age for 20% release	1.64	2.35	7.33
			Averag	ge for 100% release	3.02	3.63	12.32

Reach	Profile	Q Total	Bed Elevation	Water Surface Elevation	water	Flow	Top Width
		(m3/s)	(m)	(m)	depth	velocity (m/s)	(m)
AT BARRAGE	PF 2 (15%	16.09	1919.18	1920.97	1.79	1.39	11.38
AXIS	release)	10.05	1515.10	1920.97	1.77	1.57	11.50
890 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1915.69	1917.38	1.69	2.54	7.48
1780 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1902.31	1904.08	1.77	2.98	6.09
2670 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1871.65	1874.16	2.51	1.64	7.81
3560 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1868.21	1870.16	1.95	2.32	7.11
4450 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1858.86	1860.61	1.75	2.54	7.23
5340 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1845.82	1847.6	1.78	2.96	6.1
6230 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1823.96	1825.54	1.58	2.4	8.27
7120 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1811.99	1813.54	1.55	2.6	7.83
8010 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1797.3	1798.76	1.46	2.68	8.27
8356 M D/S FROM BARRAGE	PF 2 (15% release)	16.09	1788.95	1790.3	1.35	2.97	7.62
			Avera	ge for 15% release	1.74	2.46	7.74
			Averag	e for 100% release	3.64	4.00	14.64

Reach	Profile	Q Total	Bed	Water Surface	water	Flow	Top
			Elevation	Elevation	depth	velocity	Width
		(m3/s)	(m)	(m)		(m/s)	(m)
AT BARRAGE AXIS	PF 3 (15% release)	59.87	1919.18	1922.31	3.13	2.02	15.77
890 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1915.69	1918.46	2.77	3.59	11.42
1780 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1902.31	1905.34	3.03	3.8	10.75
2670 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1871.65	1875.74	4.09	2.23	14.02
3560 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1868.21	1871.39	3.18	3.29	11.12
4450 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1858.86	1861.73	2.87	3.59	11.17
5340 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1845.82	1848.83	3.01	3.87	10.25
6230 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1823.96	1826.27	2.31	4.39	10.62
7120 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1811.99	1814.56	2.57	3.74	11.41
8010 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1797.3	1799.75	2.45	3.64	12.61
8356 M D/S FROM BARRAGE	PF 3 (15% release)	59.87	1788.95	1791.22	2.27	4.36	10.5
			Avera	ge for 15% release	2.88	3.50	11.79
		e for 100% release	6.14	5.47	23.95		

Table 3: Estimated hydraulic parameters for the critical reach of Satluj river downstream of Shongtong Karcham HEP.

The commercial fisheries are non-existent in the project area. The umbrella aquatic species in the upper reaches of Himalayan rivers are trout. Habitat requirements in terms of depth for projects in trout zone can be 0.4-1m from lean to monsoon and to meet the higher requirement in Mahseer Zone such project should provide about 0.5-1.5m depth.

Estimated Environmental Flow Release from Shongtong Karcham HEP

A. During leanest 4 months

For Habitat requirement of trout and other native fish species the flow in any case should not fall below 0.5m depth. A further check is made that the water depth and flow width in post project scenario should be about 50% of pre0project levels. Accordingly an environmental release of 13.56 cumec has been estimated from Shontong Karcham HEP during the leanest 4 months i.e. December, January, February and March.

B. During monsoon 4 months

Environmental flow requirement in monsoon season is different from that of lean season. Lean season flow is mainly sub-surface flow and therefore, an average value and constant release can meet the lean season flow requirement. Whereas in monsoon, apart from the sub-surface flow, flood peaks are critical for various functions of the river. The flood peaks provide connectivity and wetting of side channels, opening up new habitat, gravel movement, and flushing sediment into side channels. These flows also add organic matter and nutrients through riparian vegetation into the main stream thus providing food to aquatic species. Newly connected side channels provide spawning and rearing habitat for aquatic life. Resident trout, macro-invertebrates and other species also benefit by increased habitat diversity and clean substrates. These high flows should be planned in conjunction with possible gravel augmentation efforts to maximize benefits. Environmental flow requirement in monsoon months should meet the following requirement.

- It should provide adequate habitat in terms of water depth, velocity and water width of channel for needs of aquatic life, which includes migration, breeding and spawning.
- It should provide flood peaks distributed over the monsoon period for riparian vegetation abundance, to wet side channels and maintain habitat for aquatic species.
- The flows should mimic natural flow pattern that naturally occurred in the rainy scason.
- It should meet flow requirements for breeding and spawning of prevalent fish species.

Requirement for environmental flow in monsoon can be established from the hydraulic output i.e. flow width, depth and velocity to meet habitat requirement. No specific criteria can be established to exactly fix the minimum habitat requirement due to adaptability of the species to varied conditions in the rivers. However based on the finding of various studies it can be concluded that projects should not reduce water depth below 1 m in monsoon and to meet higher requirement it should provide about 1.2 - 1.4 m depth.

An environmental release of 59.87 cumec has been assessed from Shongtong Karcham HEP during the monsoon 4 months i.e. June, July, August and September.

C. During other 4 months

To mimic the annual flow cycle of the natural flow regime the environmental flow in pre-monsoon and post monsoon period are equally important. From the river flow point of view these months are the transition periods from wet season to dry season and vice versa. During pre-monsoon

months some small pulses of higher flow are observed due to intermittent rain spell and increased snow melt in Himalayas. During post-monsoon months the higher flow occurrences are due to increased base flow and intermittent rain spells. The environmental flow requirements for premonsoon and post monsoon period can be established from the hydraulic output i.e. flow width, depth and velocity to meet the habitat requirement. In order to follow the natural flow regime, the environmental flow should be higher than that of the lean season and less than that of monsoon.

Accordingly an environmental release of 16.09 cumec has been assessed from Shongtong Karcham HEP during the other 4 months i.e. October, November, April and May.

Conclusions

For assessing environmental flow requirements, different methodologies like hydraulic rating methodologies, habitat simulations or micro-habitat modeling methodologies along with desktop methods based on hydrological data like Environmental Management Class (EMC) etc. are available. In this study the EFR recommendation is based on hydraulic rating cum habitat simulation methodology. The recommended values are:

- 1. Lean Season 13.56 cumec
- 2. Monsoon season 59.87 cumec and
- 3. Non Monsoon and Non Lean season 16.09 cumec.





Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Peo

Phone: - 01786-222801 Fax:-01786-223174 Email: - skhep.hppcl@gmail.com

No. HPPCL/SM(R&R)-STKHEP/Env-VII/2014- 5201-5203 Dated: 13/11/2014

To

The Environment Engineer, H.P. State Pollution Control Board, Opp. Indira Market, Rampur, Distt. Shimla, (HP).

Subject: Muck/Debris Disposal Statement by Shongtong Karchham HEP for the month of October, 2014.

Sir,

This is in reference to subject cited above and the condition no. 6 stipulated under Consent to Establish granted in favour of Shongtong Karchham HEP by HPSPCB. In this context, the muck/debris disposal statement for the month of October, 2014 has been enclosed herewith for your kind information.

Also, it is requested that as desired. The Member Secretary, H.P. State Pollution Control Board during the presentation held on 10.09.2014 at Shimla, the specifications of instruments to be deposited with HPSPCB in kind for implementation of EMP in r/o Shongtong Karchham HEP has been sent to you vide email.

Thus, it is requested that the list of instruments having the specification as desired by HPSPCB may kindly be sent to this office for early procurement and implementation of EMP.

Your's faithfully,

Encl: As above

Shongtong-Karchham HEP,

HPPCL Reckong-Peo, Distt. Kinnaur (HP).

Copy of above is forwarded for information to the following:-

- 1. The Member Secretary, H.P. State Pollution Control Board, Him Parivesh, Phase-III, New Shimla-171009.
- 2. The General Manager, STKHEP, HPPCL, R/Peo.



MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL BY SHONGTONG-KARCHHAM HEP (UNDER CONSTRUCTION) FOR THE MONTH OF OCTOBER, 2014

NOTES: (i) All quantities are in cubic meters.

(ii) All quantities are reported with swelling factor.

Remarks										Reutilized for Site Development		
Capacity 0 of the dumping	site	1	ı	115750	115750	187300	1	115750	187300	ı	187300	. 1
Name of the Dumping	Site	1	1	05	05	80	I	N	∞	1 Cars	∞	
],	Dumped	2049.30	0.00	10513.45	6071.26	8860.57	1	7488.00	5440.0	0.00	5440.00	
uantities (cur or the month	Utilized.	4161.25	5300.00	5220.0	4200.0	2636.59	530.15	1,	1	251.44	0.00	
Cumulative Quantities (cum) of muck/debris for the month April, 2014	Generated	6210.55	5300.00	15733.45	10271.26	11497.16	530.15	7488.00	5440.0	251.44	5440.00	
	Dumped	2049.30	0.00	432.63	ı	0.00	1	2816.00	3456.00	0.00	3456.00	
muck/debris (ril, 2014	Utilized	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	251.44	0.00	
Quantities of muck/debris (cum) for the month April, 2014	Generated	2049.30	0.00	432.63		00.00	1	2816.00	3456.00	251.44	3456.00	
Gross estimated	muck/debris to be	20,000.00	20,000.00	18,000.00	15,000.00	18,000.00	530.15	37,520.00	1,60,000.00	20,083.84	17, 551.91	
Project component		Adit-II	Road to Adit- III	Adit to P/H bottom	Ventilation Tunnel	Main Access Tunnel	Adit to Transformer Cavern	Transformer	Power House Cavern	Adit-I	Adit-III	
Sr. No.	·		61	m	4	'n	9	7	∞	10	. =	

Shongtong-Narchham H.P.,
HPPCL, Reckong 1-7.
Distt. Kinnaur (H. F.)

Himachal Pradesh Power Corporation Limited

(A State Government Undertaking) Shongtong-Karchham Hydro Electric Project, Reckong-Peo

Phone: - 01786-222310, 222962, 222801, Fax:-01786- 223174, Email: - skhep.hppcl@gmail.com

No. HPPCL/SM(R&R)- SKHEP/ Env-VII /2014- 5278-82 Dated: 17/11/2014

To

The Chief Medical Officer. Regional Hospital Reckong Peo, Distt. Kinnaur (H.P.).

Reg. HIV/AIDS awareness programme on 27th Nov. 2014 at Ralli. Subject: -

Sir,

This is with reference to subject cited above and meeting held with your good self or dated 22.09.2014 reg. implementation of activities proposed under Environment Management Plan of Shongtong Karchham HEP.

In this context, it is brought to your notice that HPPCL has proposed to conduct HIV/AIDS awareness among its staff, contractor, subcontractors and labour engaged for the construction of the project on 27th Nov. 2014 at Ralli.

It is therefore requested, that for creating awareness among the HPPCL staff, contractor, subcontractors and labour engaged for the construction of the project, DAPO from Regional Hospital, Kinnaur may please be deputed for the HIV/AIDS awareness programme on 27th Nov. 2014.

Thanking you,

Yours faithfully,

Sr. Manager (RWR). Shongtong-Karchham HEP, HPPCL, Reckong-Peo, Distt. Kinnaur (HP).

Copy forwarded for information to the following:-

- 1 The Director (Civil), Himfed Building, Bye Pass Road (Panjri), Below Old MLA's Quarters, Tutikandi, Shimla, Himachal Pradesh – 05.
- 2 The General Manager, Shongtong-Karchham HEP, HPPCL, Reckong Peo.
- 3 The Chief Environment Specialist, Uttam Bhawan (Dogra Lodge), Near 103 Tunnel, Shimla-4.
- The General Manager. Patel Engineering Ltd., Shongtong Karchham HEP, Near State Bank of Patiala, Vill. & PO-Khawangi, Teh-Kalpa, Kinnaur - 172107 for ensuring the participation of its employees, subcontractors and labour engaged. Also, to provide the necessary arrangements for conducting the programme at Project Office (Ralli), successfully.

Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Peo

Phone: - 01786-222310, 222962, 222801, Fax:-01786- 223174, Email: - skhep.hppcl@gmail.com

No. HPPCL/DGM(R&R)-SKHEP/Env-VII/2014- 6803-07 Dated: -2,3/12/2014

To

The SDM-cum-Member Secretary (LADC), Distt. Kinnaur at Reckong Peo.

Fisheries Management Plan in respect of Shongtong Karchham HEP, HPPC Subject: -Distt. Kinnaur, HP.

Sir,

This is with reference to subject cited above and letter no. KNR-I-228/34(GB)/20 1044636, dated 06/12/2014 from the O/o AC to DC Kinnaur at Reckong Peo, vide which revi proposal regarding the nominated member of steering committee from Project Affected Family in Shongtong Karchham HEP was sought from your office.

In this context, it is requested that Mrs. Lalita Pancharas, Pradhan Gram Pancha Khawangi may please be nominated as member of the steering committee (as the representative Project Affected Families), in r/o Fisheries Management Plan of Shongtong Karchham HEP

Thanking you,

Yours faithfully,

Dy. General Manager (R&R), Shongtong-Karchham HEP, HPPCL, Reckong-Peo,

Distt. Kinnaur (HP).

CC: - forwarded for information, to:

The General Manager, STKHEP, HPPCL, Reckong Peo.

The Chief Environment Specialist, HPPCL, Uttam Bhawan, Near 103 Tunnel, Shimla-4. 2

The AC to Deputy Commissioner, Distt. Kinnaur at Reckong Peo w.r.t. his office lette KNR-I-228/34(GB)/2014-1044636, dated 06/12/2014.

Mrs. Lalita Pancharas, Pradhan Gram Panchayat Khawangi, Development Block Kalpa, Kinnaur (HP)-172107.



No. KNR-I-228/34(GB)/2014-Office of the Deputy Commissioner, District Kinnaur at Reckong Peo.

To

The SDM-cum-Member Secretary (LADC). Kinnaur at Reckong Peo. Dated:

Subject:-

Fisheries Management Plan in respect of Shongtong-Karchham HEP, HPPCL, Distt. Kinnaur, H.P.

Sir.

In continuation to this office letter of even No 1044558 dated 29-11-2014, it is to inform you that the Sr. Manager (Envt.), Shongtong-Karchham HEP, HPPCL, Reckong Peo vide his letter No. HPPCL/SM(Env.)-SKHEP/Env-V11/2014- 5974-76 dated 03-12-2014 (copy enclosed) has intimated this office that Sh. Man Chand, V.P.O. Pangi is from Gram Panchayat Pangi, which does not falls in the project area of Shongtong- Karchham HEP has been nominated as a member of Steering Committee and has requested to select the nominated representative of Project Affected Families from Gram Panchayat Khawangi, Barang, Powari and Ralli.

P&A P&C REAL Sr. M-1

Therefore, you are requested to kindly look into the matter and send the revised proposal in this behalf to this office at the earliest to proceed further in the matter accordingly please.

Encls: As above.

Yours faithfully.

Dr. (Maj.) Vishal Sharma, HAS, Offg. AC to DC Kinnayr at Reckong Peo.

06/12/19 Dated:

Lindsi. No. As above. 10446 56 Copy to the Sr. Manager (Envt.). Shongtong-Karchham HEP, HPPCL, Reckong Peo w.r.t. his letter referred to above for information please.

Dr. (Maj.) Vishal Sharma, HAS, Offg. AC to DC Kinnaur at Reckong Peo.

frs

No. KNR-I-228/34(GB)/2014- 1044558 Office of the Deputy Commissioner, District Kinnaur at Reckong Peo.

To

The Dy. General Manager (R&R), Shongtong-Karchham HEP, HPPCL, Reckong Peo, District Kinnaur (H.P.)

Dated: 29/11/14

Subject:-

Fisheries Management plan in respect of Shongtong Karchham. HEP, HPPCL, Distt. Kinnaur, HP.

Sir.

This is with reference to your letter No. HPPCL/ DGM(R&R)-SKHEP/Env-VII/2014-3299-3305 dated 04-09-2014 on the subject cited above.

It is informed that as per para 3.7 of Fisheries Development Plan, the following representatives are hereby nominated as members of Steering Committee in respect of Shongtong – Karchham HEP as under:-

- The Sub-Divisional Officer (Civil). Kalpa at Reckong Peo.
- 2. Sh. Sachin Negi, V.P.O. Sangla.
- 3. Sh. Man Chand, V.P.O. Pangi.

Representative of
Deputy Commissioner
(Sr. No. 03)
Representative of
Local Public (Sr. No. 05)
Representative of
Project Affected Families
(Sr. No. 06)

Yours faithfully,

P.

(M.R. Bhardwaj) HAS, Deputy Commissioner, Distt. Kinnaur at R-Peo. Dated:

Endst. No. As above.

Copy for information to:-

1. The Sub-Divisional Officer (C), Kalpa at Reckong Peo.

Sh. Sachin Negi, V & P.O. Sangla.

3. Sh. Man Chand, V & P.Q. Pangi.

Sundage H

7/0

(M.R. Bhardwaj) HAS, Deputy Commissioner, Distt. Kinnaur at R-Peo. No. FSH-F (2)39/2010-ARC-VII-5211 Directorate of Fisheries, Himachal Pradesh.

From

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

To

The Deputy General Manager (R&R) Shongtong-Karchham HEP, HPPCL, ReckongPeo, District Kinnaur(HP)

29-11-14 Dated Bilaspur-174001 the,

Subject: -

Fisheries Management Plan in respect of Shongtong Karchham HEP, HPPCL, Distt Kinnaur (H.P.)

Sir,

I invite a reference of your letter No. HPPCL/DGM(R&R)-SKHEP/Env.-VII/2014-3299-3305 dated 04-09-2014 which is addressed to Principal Secretary(Fisheries) to the GoHP, Shimla-2 and copy among others sent to this office on the subject cited above.

In this regard, Assistant Director of Fisheries, Shimla-5 is hereby pominated as member on behalf of Fisheries Department for the steering committee likely to be constituted for monitoring and apprairal of City information and further necessary action at your end, please.

A.G.M. F&A

 $P\mathcal{U}_{c}C$

Sr. M.

Endst No. As above-

Copy to:-

The Additional Chief Secretary (Fisheries) to the Government of H. P., Shimla-2 for favour of information w.r.t. his letter No. Fish-A(4)-4/2013, dated 19.09.2014.

The Assistant Director of Fisheries, Shimla-5 for information.

(Gurcharan Singh) Director-cum-Warden of Fisheries, Himachal Pradesh, Bilaspur. E-mall : fisheries.hp@nic.in

Tel/Fax: 01978-224068

Yours faithfully,

(Gurcharan Singh)

Charmen.

Himachal Pradesh, Bilaspur. E-mail: fisheries.hp@njc.ln Tel/Fax: 01978-224068

Director-cum-Warden of Fisheries,

Dated:-

_ROOM





Contribution toward LADF							
Sr. No.	Year Contribution	Fund released till date	Balance Amount				
1.	2008	1.00 Crore	31.57 Crore				
2	2013	3.21 Crore					
3	2014	6.33 Crore					
4	Total≂	10.54 Crore	31.57 Crore				



HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)
Shongtong-Karchham Hydro Electric Project, Reckong-Peo, Kinnaur-172107 HP
Phone: 01786-223310, Fax:01786-223174, Email-skhep.hppcl@gmail.com

No. HPPCL/DGM(R&R)-SKHEP/ EC-Vol-1/2014- 6779

Dated: 22/12/2014

To

Director (S),
Ministry of Environment and Forests (GOI),
Northern Regional Office,
Bays No. 24-25, Sector 31-A,
Dakshin Marg, Chandigarh-160030

Sub: Six Monthly Report of Shongtong-Karchham Hydroelectric Project (402MW) in village Powari, District-Kinnaur (H.P.) by H.P Power Corporation Ltd.-environment clearance regarding.

Sir,

In reference to above cited file no. please find enclosed herewith six monthly report of Shongtong-Karchham HEP as under:

S. No.	Conditions	Compliance Status
1	Names and address of the Project-In charge along with their telephone, FAX, mobile and Email address.	Er. A.K.Patyal General Manager (HoP)
111		Shongtong-KarchhamHEP (402MW), HPPCL, Reckong-Peo, Distt. Kinnaur (H.P.)-172107. Office Ph 01786-223310, Fax-01786-223174 Mb. No. – 09418066776
2	Current Status of construction of project and likely date of commissioning.	Under Construction. Date of commissioning: April 2017 (As per TEC).
3	Exact Location of the project site including district etc.	Barrage at Powari with Power house at Ralli, near District



FOWER COMPONATION LTD.

HIMACHAL PRADESH POWER CORPORATION LTD.

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Phone: 01786-223310, Fax:01786-223174, Email-skhep.hppcl@gmail.com

S.No.	Funds released Funds sent by the		the project cost has to be deposited as CAT Plan of the project. Total of Rs. 60.44 crores has been deposited in Adhoc CAMPA a/c pertaining to the concerned state. of Area covered by
	by the project Forest, Deptt. Till authorities till date.	done till date	plants planted.
	Rs. 60.44 crores Annexure-II (propo	sed activities unde	er CAT Plan for FY 2014-15)
8	Physical and financial progress about i R&R scheme may be updated from time the R&R Scheme finalized so far may be	The activities undertaken under R & R plan till Nov. 2014 have been attached as Annexure-III.	
9	A copy of the proceedings/commitments public hearing may be submitted and a pla and financial targets to meet the communitied.	Annexure-IV.	
10	Submit latest monitoring reports in respectively, Noise level, Ground Water Qual Oxygen Demand (BOD) and Coliform water etc. carried out by HP SPCB or a lab.	ity, Bio-Chemical count of surface	The cost of Environment Monitoring Plan i.e. Rs. 23.61 Lac is being deposited to HPSPCB. The monitoring will start after the said amount is deposited.
11	Submit comprehensive physical and fabout disbursement of medical facilities the workers during the compliance period	•	
12	Submit update details about the quantum wire crate works / breast walls etc. at sites along with expenditure figures till date.	different dumping	Total Wire Crate work done = 3276 (at DS 5, 6, 8 & NH-5 protection). Total Expenditure =



HIMACHAL PRADESH POWER CORPORATION LTD.

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						7725
Year/			No. of labourers	Quantum of fr	Financial	
			engaged contract	supplied or su	expenditure	
ı			wise	provided	200	incurred (Rs.)
Till M	Till May 2014 115			56 Nos. of LPG Cy	linders	1,11,200/-
18	expend		irred on medicines an		cilities r	by different contractors nay be submitted in the
Year/	Period	No. of	labourers medically	Expenditure incurr	ed on I	Expenditure incurred on
			contract wise	providing medi	cines p	providing other facilities
	1363			(Rs.)		Rs.)
			[8]			
Till	May	17	Medical checkup has	13268/-	2	2271125/-
2014		been don	e.			# #
19	Submit	the detail	ils of social welfare n	neasures and other	The s	chemes which has been
			run for the locals an			d at project level are as
	people	-	tuti toi uto toodio an	project account	under:-	, •
	people	•				
*					1. S	cheme for involving
				182	Comm	unity based Organization
0			(4)		(CBO)	in R&R activities e.g.
					Mahila	Mandal, youth club etc.
1				9	2. Co	ompetition Scheme for
					school	
					tournar	nent scheme.
			ē		3. Scl	neme for organizing one
	***			l .	raining cum Awareness	
			e .	e e	camps.	•
l				74	-	cheme for providing
			*	* 0	assista	•
2					employ	
					10	R Medical Fund scheme.
						it and Support scholarship
				2		e for the wards of Project
			<u>*</u>	8		ed People.
				14		eme for Annual Varshik
.]			20	•:	Mela.	onio ioi riimaai raajiin
6	/				ivicia.	



HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)
Shongtong-Karchham Hydro Electric Project, Reckong-Peo, Kinnaur-172107 HP
Phone: 01786-223310, Fax:01786-223174, Email-skhep.hppcl@gmail.com

Ministry of Environment & Forests Northern Regional Office Chandigarh

DATA SHEET

1	Project Type	River Valley Project
2	Name of the Project	Shongtong – Karchham HEP
3	Clearance letter (s)/O.M No. & dates:	J-12011/58/2007-IA-I, dated 19/05/2011
4	Location:	
	a) District (s)b) State (s)c) Latitudes /Longitudes	a) Kinnaur b) Himachal Pradesh c) Latitude- 31°32'30" Longitude - 78°16'50"
5	Address for correspondence:	O/o General Manager, Shongtong – Karchham HEP, HPPCL, Reckong-Peo, Distt. Kinnaur (H.P.)- 172107
6	Salient features: a) Of the project b) Of the environmental Management plans	Please refer letter no. HPPCL/SM(R&R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011.
7	Breakup of the project area a) Submergences area: Forest and Non-forest b) Others	a) Submergence Area is 27.7605 hectares. b) Detail of the land for various components of the project has been already submitted vide letter no. HPPCL/SM(R&R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011.
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only dwelling units and agricultural land and	A detailed baseline survey of the project area for the formulation of Social Impact Assessment Report was done by Yashwant Parmar Horticulture University, Nauni, Distt. Solan (H.P.) from 2008 to 2010. The public hearing in all the Panchayat's were held in the month of Feb 2011. The



HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)
Shongtong-Karchham Hydro Electric Project, Reckong-Peo, Kinnaur-172107 HP
Phone: 01786-223310, Fax:01786-223174, Email-skhep.hppcl@gmail.com

11.24		
	b) The status of tree felling c) The status of compensatory	b) Under Process c) HPPCL has deposited Rs. 1, 74, 65, 952/- (Rs.
20	afforestation, if any.	One crore seventy four lac sixty five thousand nine
		hundred fifty two only) towards the cost of
18	s. 8	compensatory afforestation in CAMP A/C of
	d) Comments on the viability	MoEF.
	& sustainability of	d) Compensatory Afforestation for the project has
	compensatory afforestation programme in the light of	not been started yet.
	actual field experiences so	*
	far.	
11-	The status of clear felling in	Under Process
	non-forest areas (such as submergence area of reservoir,	
	approach road) if any, with	
	quantitative information.	- ts
10	C. C	
12	Status of construction:-	8 ×
	a) Date of commencement	a) June 2012 (As per TEC)
	(actual and/or planned) b) Date of completion	8
	(actual and/or planned)	b) April 2017 (Ac per TEC)
		b) April 2017 (As per TEC)
13	Reasons for the delay if the	NIL
	project is yet to start:-	
	9	

22/12/14

Shongtong-Karchham H. ... **HPPCL, RECKONG PED, Distl. Kionaur (H. P.) 172107

Anner-17



कारालय ग्राम पचायत शुदारम

विकास खण्ड कल्पा, ज़िला किन्नीर (हि०प्र०)

अध्यक्षता : प्रदान भी सदीप क्रणाड

間面 04-01-2-01

गणपूर्ती : [18] २३८

प्रस्ताव संख्या : 🖅 🖒

प्रेषितः – महाप्रबन्धक शौंगठोंग – करच्छम जल विद्युत परियोजना (450 मे0वा०) रिकांग पीओ विषय :- ग्राम सभा में अनुसूचित जन जाति और अन्य परम्परागत वन निवासी (वन अधिकारों की मान्यता) अधिनियम 2006 के अन्तर्गत वन अधिकारों तथा प्रभावित पंचायत का एजेण्डा बारे। प्रस्ताव संख्या सात

आज की ग्राम सभा बैठक में विशेष चर्चा उपरान्त सर्व सम्मति से यह निर्णय लिया गया है कि उपरोक्त विषय के सन्दर्भ में गौंगठोंग-करच्छम (450 मे0वा0) जल विद्युत परियोजना के प्रभावित क्षेत्र को निर्धारण हेतू हिगाचल प्रदेश सरकार के नए अधिसूचना जोकि दिनांक 5 अक्तूबर, 2011 को जारी हुई थी इस चर्चा के उपरान्त आज की ग्राम सभा में हिमाचल प्रदेश पावर कारपोरेशन लिमिटेड द्वारा शौंगठोंग - करच्छम (450 मे0वा0) जल विद्युत परियोजना के निर्माण के लिए 3-14-21 है0 वन भूमि के उपयोग की मंजूरी प्रस्तावित है। इसमें वन अधिकारों के साथ प्रस्तुत दस्वावेजों के अध्ययन तथा उस पर विस्तृत चर्चा के उपरान्त वन अधिकार समिति सभा द्वारा निम्नलिखित पात्रों का दावा नियमानुसार सही पाया गया इसलिए ग्राम सभा शुदारंग प्रभावित पंचायत के सभी आज की तारीक के लोगों को वन अधिकार के तहत जो मुआवजा मिलना है ग्राम सभा द्वारा इसमें सहमति जताते हुए कुछ एजेण्डे सभा में प्रस्तुत किया है :-

- बौक्टो नाला से 6 ईच पाईप द्वारा सिंचाई लाईन व टैंक बरदड़े तक निर्माण बारे।
- प्रत्येक ग्रागवासी गीटर धारक को 300 युनिट बिजली मुफ्त प्रदान कराने बारे। 2.
- सभा क्षेत्र के लोगों को योग्यता अनसार परियोजना में रोजगार प्रवान कराना। 3.
- श्वारंग ग्राम के हर गली में सोलर लाईट लगवाने बारे। 4.
- रांग प्राथमिक पाठशाला को मुरम्मत करवाने के लिए धनराशि मुहैया करवाने बारे। 5.
- शुदारंग ग्रामवासियों को प्ररियोजना क्षेत्र का शेयर देने बारे। 6.
- 2015 के जनवरी तक परिवार रजिस्टर में सभी इन्द्राजों को 500 दिन का बेरोजगार भत्ता देने बारे। 7.
- डम्पिंग नंD 3 शौंगठोंग में मुर्दीघाट स्थल पर वर्षा शालिका निमार्ण बारे। 8.
- डिम्पंगं स्थल पर कार्य पूर्ण होने पर वृक्षारोपण बारे। 9.

अतः प्रस्ताव सर्व सम्मति से पारित कर महाप्रबन्धक शौंगठोंग जल विद्युप परियोजना (450 मे0वा) की सेवा में प्रेषित की जाती है।

प्रस्ताव नकल असल के अनुस्प है। इन्हरूक क्षेत्रकार क्षेत्रकार के अनुस्प है।

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TEST REPORT

Name of the Industry	M/S Himachal Pradesh Power Corporation Limited	Date of Sampling	11& 12# Eec, 2014	
Address	Shongtong-Karchham (Powari-Ralli)	Date of Receipt	16th Dec. 2014	
	HEP (450 MW) Reckong-Peo, Distt., Kinnaur (HtP)-172107.	Date of Reporting	22 nd Dec, 2014	
REF No:	STL/EHS/L16012-016/14		10	

NOISE MONITORING REPORT

S.No.		W D	ay	Night		
	Location	Time	Levels in Leg (dBA)	Time	Levels in Leg (dBA)	
1	Near Barrage	10 50 am	73.6	10.05 pm	68.9	
2.	Near Adit-I	11.00 am	70:2	19:15 pm	63.5	
en in a terre anni premio de contra	Near Adu-II	11:10 am	73.1	10.20 pm	67.7	
4	Near Adit-III	11.15 am	20,0	10 25 pm	63.2	
5	Near Project Office (Ralli)	11.40 am	72.9	10:40 pm	67.5	
6	Near Crusher Plant (Proposed)	11.50 am	74.1	10:45 pm	68.5	
7	Near Power House	12 00 pm	72.3	10:55 pm	63.0	
СРСВ	Limits	75.	dBA	70	dBA	

Sampling is carried out as per Standard methods

Equipment Details : Make : Quest Technologies

Model No: SLM 210

Monitored by : "Mr. Siva Ganesh - Env. Executive . "

Remarks : Complies

76

Compiled by:

STATISTICS CONTROL OF THE PARTY OF THE PARTY

22/12/14

Authorised by:

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[D.L.No. : 1/RR/AP/2004/AL/G]



TEST REPORT

	- 112-	i i				
Name	of the Industry	M/S Himachal Prade Power Corporation L		Date of Sampli	ing	11 th Dec, 2014
	31	Shongtong-Karchham (Po				16th Dec, 2014
Addres	SS	HEP (450 MW) Reckong-I Kinnaur (H.P)-172107.	Peo, Distt.,	Date of Report	ling	22 nd Dec, 2014
REF N	0:	STL/EHS/L16005/14		40000		A1 *
Time c	of monitoring : 1	0.10 AM - 10.10 AM	Duration			
Wind s	speed: 3.0 Kms	/ hr	Wind dire	ection : North W	est t	South East
Ambie	nt Air Temp: 8.	6 °C '		5 (M) EI		
		AMBIENT AIR QUAL	.ITY - NEA	AR BARRAGE		
S.No.	PA		LIMITS		RESULTS	
1	Particulate Ma	itter as PM ₁₀ (μg/m³)		100		43.6
2	Particulate Ma	itter as PM _{2.5} (μg/m³)		60		12.5
3	Sulphur Dioxid	les as SO₂ (μg/m³)		80		. 13.1
4	Nitrogen Dioxi	des as NO ₂ (μg/m³)		80		15.7
5	Carbon Monox	ide as CO (µg/m³)		4.0		
Sampl	ing and Analys	is carried out as per	IS: 5182	ä		v
Equip	ments Details:	Make : Aero Viro Model No: RDS 9	onment 000.			10-10-10
Equip	ments Details	Make : Ecotech Model No: AAS	127			
Monit	ored by :	Mr. Siva Ganesh Mr. Srinivas Red	– Env. Ex dy – Env.	ecutive Asst. Executive	ė	(d) (d)
Remai	rks . :	Complies				
				_ //	VA	200
	¥	1. Novara		Carels	En	20 A.

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TEST REPORT

		5			
Name	of the Industry	M/S Himachal Pradesh Power Corporation Lim	nited	Date of Sampling	12 th Dec, 2014
Shongtong-Karchham (Powari-				Date of Receipt	16 th Dec, 2014
Addres	55	HEP (450 MW) Reckong-Ped Kinnaur (H.P)-172107.), DISIL.,	Date of Reporting	22 nd Dec, 2014
REF No: STL/EHS/L16007/14					8
Time o	of monitoring: 1	1.05 AM - 11.05 AM	Durat	ion : 24hrs	
Wind speed: 2.9 Kms / hr				direction: North W	lest to South East
Ambie	nt Air Temp: 8.	8 °C			
	AMBIE	NT AIR QUALITY - NEA	R POW	ER HOUSE COMP	LEX
S.No.	, Р	ARAMETERS		LIMITS	RESULTS
1	Particulate Ma	tter as PM ₁₀ (µg/m³)		100	51.2
2	Particulate Ma	tter as PM _{2.5} (μg/m³)		60	13.1
3	Sulphur Dioxid	les as SO₂ (μg/m³)		. 80	12.9
4	Nitrogen Dioxi	des as NO ₂ (μg/m³)	12.	80	15.0
5	Carbon Monox	lde as CO (μg/m³)		4.0	Nil
Sampl	ing and Analys	is carried out as per IS.	: 5182		
	nents Details: nents Details	Make : Aero Vironm Model No: RDS 9000 Make : Ecotech Model No: AAS 127),	<u> </u>	
Monito	ored by :	Mr. Siva Ganesh – E Mr. Srinivas Reddy	nv. Ex	ecutive Asst. Executive	
~-					
Remar	ks ;	Complies			
Remar	ks ;	Complies A. Blowara		Ranosaffe	Calebos (

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TEST REPORT

				um to the	· · · · · · · · · · · · · · · · · · ·	···	
Name of the Industry	M/S Hima Power Co			<u></u>	Date of Sampling	12 th Dec, 2014	
Address		Shongtong-Karchham (Powari- HEP (450 MW) Reckong-Peo, I			Date of Receipt	16 th Dec, 2014	
Address	Kinnaur (H.P)-172107.				Date of Reporting	22 nd Dec, 2014	
Ref No:	STL/EHS/	L16009/1	4		Time of Sampling	2:10 pm	
	STA	ACK MON	ITORING	R	EPORT		
Details D.G.Set-250 KVA Barrage			St	ack Height, m	3.0		
Fuel Used				Sta	ack Diameter, m	0.16	
Control Equipment	The state of the s			C/	s Area, m²	0.0201	
	7	Flow Ch	naracteri	stic	os		
Ambient Temp, ^o C	9.1 Velocity, m			, m	/s	13.81	
Stack Temp, °C	15	В	Flow rat	le, l	, Nm³/hr 692		
10		Emiss	ions Det	ails			
Particulate matter, mg/Nm³			5.7		10000	115	
Sulphur dioxide, mg/N	m³	53,6		CPCB Standards	800		
Oxides of Nitrogen, m	g/Nm³	70.8			800		
Sampling and Analys	is carried	out as po	er IS:112	55			
Equipment Details :		o: SEA 90					
Monitored by :	Mr Si	iva Ganes inivasa R	eddv -	Enν	/. Executive	DEM PEAT	
Remarks :	All va and A	lues are v s per Cor	well with isent issi	in t ued	he limits as per CPC	SRIMOFF NOLWS	
All and the second seco	A. Blows	na			To vol Caro		
Checked by	aal	12/14		A	uthorized by Missebso.) = 1	
		<u> </u>	- kal			5/	

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[D.L.No. : 1/RR/AP/2004/AL/G]



TEST REPORT

	92				*	
Name of the Industry	M/S Himachal Pradesh Power Corporation Limited			Da	te of Sampling	12 th Dec, 2014
Address	Shongtong-l HEP (450 M				te of Receipt	16th Dec, 2014
(90)	Kinnaur (H.P)-172107.				te of Reporting	22 nd Dec, 2014
Ref No:	STL/EHS/L16011/14			Tin	e of Sampling	4:30 pm
	STA	CK MON	ITORING	REPO	RT	
Details D.G.Set-500 KVA Adit-III				Stack	Height, m	3.0
Fuel Used	Diesel		Stack	Diameter, m	0.16	
Control Equipment	NII			C/s Ar	ea, m²	0.0201
		Flow Ch	aracteri	stics		
Amblent Temp, °C	9.0 Velocity, n			, m/s		15.04
Stack Temp, ^o C	186	3	Flow rat	te, Nm³	/hr	707
*	MALURA SERI	Emissi	ions Det	ails		
Particulate matter, mg	/Nm³	5	51.2			115
Sulphur dioxide, mg/Nm ³ Oxides of Nitrogen, mg/Nm ³		58.5 89.7		СР	CB Standards	800
						800
Sampling and Analys	is carried o	out as pe	r IS:112	55	(M)	
Equipment Details :	Aero viro Model No	: SEA 90			-	***************************************
Monitored by :	Mr. Sri	va Ganes nivasa R	eddy - I	Env. Ex	ecutive	
Remarks :	All valu and As	ues are w per Con	rell with i sent issu	n the li ed. •	nits as per CPC	B/MoEF Norms
	7 () ()	HIECOTO IN THE			1/2 VI 1-1	10 (COM)
···	4. Bhova			7	rized By Hyderas	

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[DILNO: TIRRIAPI2004/ALIG]



TESTREPORT

	s	ne as per Customer's reques	: Analysis done	Remarks:
	stive	Mr. Siva Ganesh - Env. Executive	Hected By:	Sample C
25.0			c) Clay (%)	
43.8			b) Silt (%)	
eu 1.cu			a) Sand (%)	
		Analysis	Grain Size A	4
Silt loam			Texture	iω
සි.ජී		rotion Ratio (SAR)	Sodium Absorption	12
0.62		Carbon (%)	Organic Carb	m.h.
247.0		SO ₄ (៣g/Kg)	Suiphate as S	10
166.7		s Mg (mg/Kg)	Magnesium as	60
1 178,4		:e (mg/Kg)	Calcium as Ca	COS
6,673.1		(Kg/Hec)	Nitrogen as N	7
298.9		as P (Kg/Hec)	Phosphoreus	(S)
44		s K (mg/100g)	Potassium as	Ųì
7 17.1		a (mg/100g)	Sodium as Na	42
195.7		СІ (лд/Кд)	Chlorides as	w
208		(10% Solution) (µs/cm)	Conductivity	N
9.34			H	
Results		Parameters		S.No.
	ADIT - II	SOIL SAMPLE - FROM		
		STL/EHS/L16018/14	8.23	RET No
Reporting 22nd Dec, 2014	Date of	Kinnaur (H.P)-172107.		
Receipt 16th Dec. 2014	Date of	Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckord-Peo Dist		Address
Sampling 13th Dec. 2014	Date of .	Power Corporation Limited	the moosty	0

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TESTREPORT

Name of	the Industry	M/S Himachal Pradesh	Date of Sampling
	l	Power Corporation Limited	
Address		Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Pen, Dist.	Date of Receipt
		Kinnaur (H.P)-172107	Date of Reporting
REF NO		STL/EHS/L18017/14	
		SOIL SAMPLE - FROM BA	BARRAGE
S.No.		Parameters	Results
_	PH		7.06
2	Conductivity	(10% Solution) (µs/cm)	232
Çs	Chlorides as	CI (mg/Kg)	215.3
4	Sodium as N	≊ (mg/100g)	14.6
¢n	Polassium as	s K (mg/100g)	38
හ	Phosphorous	as P (Kg/Hec)	306.3
>1	Nitrogen as	N (Kg/Hec)	7,358
exs	Calcium as (Ca (mg/Kg)	1,237,3
ധ	Magnesium.	as Mg (mg/Kg)	202.4
10	Sulphate as	SO ₄ (mg/Kg)	312.8
(<u></u>)	Organic Carbon	оол (%)	0.58
12	Sodium Absi	bsorption Ratio (SAR)	5,44
교	Texture		Silt loam
14	Grain Size A	malysis	
	a) Sand (%)		16.7
	b) Silt (%)		56.7

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Lifeties Towns

Authorized-by: Sec. of Remarks: Analysis done as per Customer's request Sample Collected By: Mr Siva Ganesh - Env. Executive

c) Clay (%)

26.7

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TEST REPORT

	Spiles		Show		
**************************************	utive	Mr. Siva Ganesh - Env. Executive	Mr. Siva Gan	Sample collected by:	ample
		per APHA	Sampling and Analysis carried out as pe	ng and Analysi	ampli
NH.	1.6	APHA 4500B	Jorine (mg/L)	Total Residual Chlorine (mg/L)	7
11	30	IS 3025 (Part 44)	Demand 3 days	Biological Oxygen Demand 3 days at 27°C (mg/L)	6
43.5	250	APHA 5220B	Chemical Oxygen Demand (mg/L)	Chemical Oxyg	çi
N.	10	АРНА 5520В	mg/L)	Oil & Grease (mg/L)	4.
48	200	APHA 2540D	Total Suspended Solids (mg/L)	Total Suspend	ω
114	2100	APHA 2540D	Total Dissolved Solids (mg/L)	Total Dissolve	N
7.14	5.5-9.0	APHA 4500B		Hđ	
Results	As per APPCB/CPCB Limits	Methods	Parameter	Pa	S.No.
	UR CAMP -	WASTE WATER - FROM LABOUR CAMP	WASTE WATE		١.
	*	4	STL/EHS/L16029/14	0:	REF No:
22nd Dec, 2014	Date of Reporting 22nd	() () () () () () () () () () () () () (Kmnaur (H.P)-172107.		
16th Dec, 2014	Date of Receipt 16th	_	Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo Diett	82	Address
13th Dec, 2014	Date of Sampling 13th		Power Corporation Limited	The state of	

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[D.L.No. : 1/RR/AP/2004/AL/G]



TESTREPORT

.18	Authorized by:	22/2/2	by: A.	Checked by :
) !		sis done as per Customer's request	Remarks: Analysis done	Remark
	ive	d By: Mr. Siva Ganesh - Env. Executive	Callected By:	Sample
	26.7	(%)	c) Clay (%)	
	- 53.3	(%)	b) Silt (%)	
	20.0	Sand (%)	a) Sand	
		Size Analysis	Grain Size	14
m.	Silt loam		Texture	13
	6.42	Sodium Absorption Ratio (SAR)	Sodium	12
	0.41	c Carbon (%)	Organic	=
	279.8	te as SO4 (mg/Kg)	Sulphate	5
7	166.7	Magnesium as Mg (mg/Kg)	Magnes	မ
.6	1,217.6	n as Ca (mg/Kg)	Calcium as	000
.CB	.8,126.8	n as N (Kg/Hec)	Nilrogen	7
	339.1	Phosphorous as P (Kg/Hec)	Phospho	თ
	43.5	ium as K (mg/100g)	Potassium as	ρη
(2)	16.9	as Na (mg/100g)	Sodium as	4
*	254.4	Chlorides as Cl (mg/Kg)	Chloride	ω
	256	Conductivity (10% Solution) (µs/cm)	Conduc	2
	7.21		뫄	
is i	Results	Parameters		S.No.
I TUNNEL	EX - AT DIVERTION TUNNEL	PLE - FROM POWER HOUSE COMPLEX	SOIL SAMPLE	8
		STL/EHS/L16021/14		REF No:
16th Dec, 20 22nd Dec, 20	Date of Receipt Date of Reporting	HEP (450 MW) Reckong-Peo, Distt. Kinnaur (H.P)-172107.		Address
13th Dec, 20	Date of Sampling	-	walle of the moustry	Na iii

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Tel: +91-40-2204190, 23041905, 40215094
E-mail: quality@startechlabs.com [D.L.No.: 1/RR/AP/2004/AL/G]



TEST REPORT

:		M/S Himachal Pradesh	- Dradoch		
Name	Name of the Industry	Power Corpo	Power Corporation Limited	Date of Sampling	13th Dec, 2014
Address	SS	Shongtong-Kard HEP (450 MW)	Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Dist	Date of Receipt	16th Dec. 2014
		Kinnaur (H.P)-172107.	72107.	Date of Reporting	22 nd Dec, 2014
REF No:	9.	STL/EHS/L16022/14	022/14	7	
8	DRIN	DRINKING WATER -	- FROM LABOUR	FROM LABOUR CAMP AT RALLI	
S.No.	Parameter	ter	Methods	Desirable Limits As Per IS 10500	Results
3	Fluoride as F (m	(mg/L)	APHA 4500D	1.0	N.
16	Silica as SiO ₂ (mg/L)	ıg/L)	APHA 4500C	1	1.6
17	Nitrite as NO ₂ (mg/L)	ιg/L)	APHA 4500B		N:i
18 8	Sodium as Na (mg/L)	اg/ <i>ا</i> د)	APHA 3500B		2.1
19	Potassium as K (mg/L)	mg/L)	APHA 3500B	1	0.2
20	Cadmium as Cd (mg/L)	(mg/L)	APHA 3500	0.01	Not Detected
21	Copper as Cu (mg/L)	g/L)	APHA 3500B	0.05	Not Detected
13	Iron as Fe (mg/L)		APHA 3500B	0,3	Not Detected
23	Chromium as Cr +6 (mg/L)	ng/L)	APHA 3500B	0.05	Not Detected
24	Zinc as Zn (mg/L)		APHA 3500B	Oi	0.2
25	Total Coliform		1	Should be Absent	Absent
26	Fecal Coliform		:	Should be Absent	Absent
Sample	Collected by	Mr. 9	Siva Ganesh - En	Env. Executive	
emark	Remarks: Analysis done as	as per given sample,	sample.		
hecke	Checked by : A .Sl	الدالدة		Authorized by: 67	18 J. 18

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STARTECH LABS PVT. LTD. 2" Floor, SMR Chambers, H.No.: 1-58/7, Opp.: St. Ann's Jr. Coffege, Madinaguda. Hyderabad - 500 050, Telengana, NDJA. 161.: +91-40-23041901, 23041905, 40215094 E-mail: quality@startechlabs.com [D.L.No.: TIARIAPIZODAIALIG]



TEST REPORT

Name of the Industry IM/S Himachal Pradesh Proversion Limited Shonglong Address Date of Sampling Date of Receipt (Kinnaur (H.P)-172107. Date of Receipt Date of Receipt (Kinnaur (H.P)-172107. 13 m Dec, Shonglong-Reckong Peo, Distl. Date of Receipt (Kinnaur (H.P)-172107. 16 in Dec, Exporting Date of Receipt (Kinnaur (H.P)-172107. 16 in Dec, Date of Receipt (Meckong Peo, Distl.) Date of Receipt (Meckong Peo, Distl.) 16 in Dec, Date of Reporting (Meckong Peo, Distl.) Date of Receipt (Meckong Peo, Distl.) 16 in Dec, Date of Reporting (Meckong Peo, Distl.) Date of Receipt (Meckong Peo, Distl.) Date of Reporting (Meckong Peo, Distl.) Date of Receipt (Meckong Peo, Distl.) Date of Reporting (Meckong Peo, Distl.) Date of Reporting (Meckong Peo, Distl.) Date of Reporting (Meckong Peo, Distl.) APHA 4500B APP A 3500B APP A 4500B	J. Cer	Authorized by: Compile	Q:	الدالقة	Checked by : A. She	Checke
of the Industry M/S Himachal Pradesh Date of Sampling 13m Shongtong-Karcham (Powari-Raili) Date of Receipt 16m Kinaur (H.P)-172107. Date of Receipt 16m Kinaur (H.P)-172107. Date of Reporting 22m		200	APHA 4500E	ι (mg/L)	SS SS	_
Of the Industry M/S Himachal Pradesh Shongtong-Karchnam (Powan-Ralli) Date of Sampling 13m Shongtong-Karchnam (Powan-Ralli) Date of Receipt 16m Kinnaur (H.P)-172107. Date of Reporting 22md Vo: STL/EHS/L16022/14 Date of Reporting 22md Voic STL/EHS/L16022/14 Date of Reporting 22md Voic STL/EHS/L16022/14 Date of Reporting 22md Voic STL/EHS/L16022/14 Date of Reporting Voic STL/EHS/L16022/14 Date of Reporting Voic STL/E		250	APHA 4500B	mg/L)	Chloride as Cl (r	သ
Of the Industry M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13th Shongtong-Karchham (Powan-Ralli) Date of Receipt 16th Kinnaur (H.P)-172107. Date of Reporting 22md Date of Reporting 22md Date of Reporting 22md Date of Reporting Date of Reportin		0.2	APHA 4500B	hlorine (mg/L)	Residual free Ch	12
Of the industry M/S Himachal Pradesh Power Corporation Limited Sinogtong-Karchham (Powar-Raifi) Date of Receipt 16th HEP (450 MW) Reckong-Peo, Distt. Date of Receipt 16th Kinnaur (H.P)-172107. Date of Reporting 22md Date of Reporting 22		30	APHA 3500B	//g (mg/L)	Magnesium as N	=======================================
Of the industry M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) Date of Sampling 13th		75	APHA 3500B	mg/L}	Se	6
s of the industry M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Distt., HEP (450 MW) Reckong-Peo, Distt., HEP (450 MW) Reckong-Peo, Distt., HEP (450 MW) Reckong-Peo, Distt., Date of Reporting 16th Date of Reporting 22nd DRINKING WATER - FROM LABOUR CAMP AT RALLI Parameter Methods As Per IS 10500 APHA 4500B 6.5-8.5 Taste APHA 2120C Agreeable Color (Hazen Unit) APHA 2130B 4 Total Dissolved Solids (mg/L) APHA 2540C 500 Total Hardness as CaCO3 (mg/L) APHA 2340C 200	8	200	APHA 2320B		Total Alkalinity a	ဖ
Odour Facesh Pradesh Pradesh Prower Corporation Limited Date of Sampling 13th		200	APHA 2340C	as CaCO ₃ (mg/L)		8
Sof the industry M/S Himachal Pradesh Power Corporation Limited Power Corporation Peo, Dist., Date of Receipt 16th Power CAMP AT RALL! Parameter Methods As Per IS 10500 APHA 4500B As Per IS 10500 APHA 2120C Solor (Hazen Unit) APHA 2130B APHA 2130B APHA 2540C Solor Apha 2540C Apha 2540C Apha 2540C Aph	3	:	APHA 25400	olids	Total Suspended Si	7
M/S Himachal Pradesh Date of Sampling 13th		500	APHA 2540C	lids (mg/L)	Total Dissolved Sol	o
Sof the industry M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13th	949	-1	APHA 2130B		Turbidity (NTU)	Ch
Odour M/S Himachal Pradesh Date of Sampling 13th		51	APHA 2120C	•	Color (Hazen Unit)	4
sof the industry M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powan-Ralli) Date of Receipt 16th HEP (450 MW) Reckong-Peo, Distl., Kinnaur (H.P)-172107. Date of Reporting 22md Vo: STL/EHS/L16022/14 DRINKING WATER - FROM LABOUR CAMP AT RALLI PArameter Methods Desirable Limits As Per IS 10500 APHA 4500B 6.5-8.5 Tasle APHA 4500B Agreeable	Agr	Agreeable	l		Odour	ω
wis finactal Pradesh Power Corporation Limited Shongtong-Karchham (Powań-Ralli) Parameter MS Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powań-Ralli) Date of Receipt Date of Reporting Date o	Agr	Agreeable			Taste	12
wis Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Distt., Kinnaur (H.P)-172107. Date of Receipt 16th D RTL/EHS/L16022/14 DRINKING WATER - FROM LABOUR CAMP AT RALL! Parameter Methods As Per IS 10500		6.5-8.5	APHA 4500B	40	뫈	_
ress Wis Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powan-Ralli) HEP (450 MW) Reckong-Peo, Dist., Kinnaur (H.P)-172107. Date of Receipt Reporting STL/EHS/L16022/14 DRINKING WATER - FROM LABOUR CAMP AT RALLI	٠ ٣	Desirable Limits As Per IS 10500	Methods	ameter		S.No.
ress Wis Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powan-Ralli) HEP (450 MW) Reckong-Peo, Distt., Kinnaur (H.P)-172107. Date of Reporting STL/EHS/L16022/14		CAMP AT RALLI	FROM LABOUR	WATER	DJ.	
M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Distt., Kinnaur (H.P)-172107. Date of Reporting			114	STL/EHS/L16022/	0:	REF N
M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powar-Rall) HEP (450 MW) Recknon-Pen Diet HEP (450 MW) Recknon-Pen Diet	22nd Dec	of Reporting	_	Kinnaur (H.P)-172107		
M/S Himachal Pradesh Power Corporation Limited Date of Sampling	6th Dec	of Receipt		Shongtong-Karchhan	SS	Addres
	3 th Dec		nited	M/S Himachal Pr Power Corporati	of the industry	Name

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[D.L.No.: 1/RRIAP/2004/AL/G]



TEST REPORT

1							
	lame	Name of the Industry	M/S Himachal Pradesh Power Corporation Lin	M/S Himachal Pradesh Power Corporation Limited	Date of Sampling	13th Dec, 2014	0.0
~	Address		Shongtong-Karo HEP (450 MW) I	Shongtong-Karchham (Pcwari-Ralli) HEP (450 MW) Reckong-Peo, Dist	Date of Receipt	16th Dec, 2014	ŝ
Т			Kinnaur (H.P)-172107.	72107.	Date of Reporting	22nd Dec, 2014	
77	REF No:		STL/EHS/L16024/14	024/14			i.
Γ'''		SURFACE	WATER -	FROM SULTEJ RI	FROM SULTEJ RIVER AT TRT RALLI		
, , ,	S.No.	Parameter	ler l	Wethods	Desirable Limits As Per IS 10500	Results	3.00 103
	15	Fluoride as F (mg/L)	J,(T)	APHA 4500D	1.0	Ni.	i
	16	Silica as SiO ₂ (mg/L)	g/L)	APHA 4500C	d	28.1	
_	17	Nitrite as NO ₂ (mg/L)	g/L)	APHA 4500B		N)	
Γ	18	Sodium as Na (mg/L)	g/L)	APHA 3500B	1	30.3	-
<u> </u>	10	Potassium as K (mg/L)	ng/L)	APHA 3500B	:	0.4	
	20	Cadmium as Cd (mg/L)	mg/L)	APHA 3500	0.01	Not Detected	- 15
	21	Copper as Cu (mg/L)	ł/L)	APHA 3500B	0.05	Not Detected	-,172
-	23	Iron as Fe (mg/L)		APHA 3500B	0.3	0.3	
	23	Chromium as Cr +6 (mg/L)	1g/L)	APHA 3500B	0.05	Not Detected	14.2
	24	Zinc as Zn (mg/L)		APHA 3500B	57	0.02	
	25	Total Coliform		J	Should be Absent		3
	26	Fecal Coliform			Should be Absent		
ပ္သ	mple	Sample Collected by	· Mr. 9	Siva Ganesh - En	Env. Executive		
נק	mark	Remarks: Analysis done as per given sample.	as per given	sample.			

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001 Website: www.startechlabs.com E-mail: rambabu.g@startechlabs.com, startechlabs@gmail.com

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Authorized by: Lange

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(D.L.No.: TIRRIAPIZODAIALIG)



TEST REPORT

		Power Corporation Limited		חמופי טו	Date of Sampting	tom Dec
Address		Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo. Dist	5	Date of	of Receipt	16th Dec
		Kinnaur (H.P)-172107.	igh co, Diait.,	Date of	Date of Reporting	22nd Dec
REF No:		STL/EHS/L16024/14				İ
	SURFACE	WATER -	FROM SULTEJ RIVER AT TRE RALLI	IVER A	IT TRE RALLI	
S.No.	Parameter	neter	Methods	As De	Desirable Limits As Per IS 10500	χυ ZD
1 pH			APHA 4500B	-	6.5-8.5	7
2 Taste	ste		1	-	Agreeable	Agı
3 Odour	our		1		Agreeable	Agr
4 Col	Color (Hazen Unit)		APHA 2120C		Chi	
5 Tur	Turbidity (NTU)		APHA 2130B			
6 Tot	Total Dissolved Solids (mg/L)	ls (mg/L)	APHA 2540C	-	500	7
7 Tot	Total Suspended Solids	ids	APH'A 2540D	1	:	_
8 To:	Total Hardness a	as CaCO ₃ (mg/L)	APHA 2340C	\dashv	200	-
9 Tot	tal Alkalinity as	Total Alkalinity as CaCO ₃ (mg/L)	APHA 2320B		200	1
10 Ca	Calcium as Ca (mg/L)	19/L)	APHA 3500B	+	75	
11 Ma	Magnesium as Mg (mg/L)) (mg/L)	APHA 3500B	-	30	7
12 Res	Residual free Chl	Chlorine (mg/L)	APHA 4500B	\dashv	0.2	
13 Ch	Chloride as CI (mg/L)	g/L)	APHA 4500B	-	250	7
14 Sul	Sulphate as SO ₄	SO4 (mg/L)	APHA 4500E	\dashv	200	7

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[D.L.No. : TIRRIAPIZODAJALIG]



TEST REPORT

Name of the Industry M/S Himachal Pradesh Proversion Date of Sampling 13th Dec, 2014 Address Shonglong-Karchham (Powasi-Raili) Date of Receipt 16th Dec, 2014 REF No: STL/EHS/I/16026/14 Date of Reporting 22nd Dec, 2014 S.No. Parameter Methods Desirable Limits Results 15 Fluoride as F (mg/L) APHA 4500C 1.0 Nil 16 Silica as SiO ₂ (mg/L) APHA 4500B Nil 17 Nitrite as NO ₂ (mg/L) APHA 3500B Nil 19 Potassium as K (mg/L) APHA 3500B 0.2 20 Cadmium as Cd (mg/L) APHA 3500B 0.05 Not Detected 21 Cropper as Cu (mg/L) APHA 3500B 0.05 Not Detected 22 Iron as Fe (mg/L) APHA 3500B 0.05 Not Detected 23 Chromium as Cr-s (mg/L) APHA 3500B 0.05 Not Detected 24 Zhous Zhanghai APHA 3500B 0.05 Not Detected 25 </th <th></th> <th></th> <th></th> <th>en sample.</th> <th>e as per giv</th> <th>Remarks: Analysis done as per given sample</th> <th>Remark</th>				en sample.	e as per giv	Remarks: Analysis done as per given sample	Remark
e of the Industry M/S Himachal Pradesh Power Corporation Limited Shongkong-Karohlam (Powari-Ralli) Date of Receipt 13 Shongkong-Karohlam (Powari-Ralli) Date of Receipt 16 KHEP (450 MW) Reckong-Peo, Distt. Date of Reporting 22			. Executive	Siva Ganesh -		Collected by	Sample
e of the Industry M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13 ess Shongtong-Karotham (Powari-Ralli) HEP (450 MW) Reckong-Pec, Distt. Date of Receipt 16 No: STL/EHS/L16026/14 STL/EHS/L16026/14 Date of Reporting 22 SURFACE WATER - FROM CONFLUENCE OF TANGLING KHADD Pate of Reporting 22 Fluoride as F (mg/L) APHA 4500D Desirable Limits AS Per IS 10500 Fluoride as Per IS 10500 APHA 4500D 1.0 Sodium as Na (mg/L) APHA 3500B	bse	≥				Fecal Coliform	26
e of the Industry M/S Himachal Pradesh Power Corporation Limited Sampling 13 Shonglong-Karchham (Powari-Ralli) Date of Receipt 16 HEP (450 MW) Reckong-Peo, Distt. Date of Receipt 16 Methods Date of Reporting 22 No: STL/EHS/L16026/14 STL/EHS/L16026/14 Date of Reporting 22 STL/EHS/L16026/14 Date of Reporting 22 Ninaur (H,P)-172107. Methods Desirable Limits As Per is 10500 As Per is 10500 Silica as SiO₂ (mg/L) APHA 4500D 1.0 Sodium as Na (mg/L) APHA 3500B As Per is 10500 Sodium as Na (mg/L) APHA 3500B APHA 3500B O.01 Copper as Cu (mg/L) APHA 3500B O.05 Inon as Fe (mg/L) APHA 3500B O.05 Inon as Fe (mg/L) APHA 3500B O.05 Inon as Cr-s (mg/L) APHA	es l	P	be	i		Total Coliform	23
M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13	9		ហ	APHA 3500B		Zinc as Zn (mg/L)	24
e of the Industry)ete	Not 1	0.05	APHA 3500B	mg/L)	Chromium as Cr +6	23
M/S Himachal Pradesh Power Corporation Limited Pate of Receipt 18	9.0		0.3	APHA 3500B		Iron as Fe (mg/L)	3 13
e of the Industry	Dete	Not t	0.05	APHA 3500B	ig/L)	Copper as Cu (n	21
ess M/S Himachal Pradesh Pade of Sampling 13th Dec, Shongtong-Karchham (Powari-Ralli) Date of Receipt 16th Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, Const. Date of Reporting 22nd Dec, Const. Date of Reporting 22nd Dec, Const. Co) ele	Not I	0.01	APHA 3500	(mg/L)	Cadmium as Cd	20
e of the Industry M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Distl., Kinnaur (H.P)-172107. No: SURFACE WATER - FROM CONFLUENCE OF TANGLING KHADD Parameter Methods Fluoride as F (mg/L) Silica as SiO ₂ (mg/L) APHA 4500C Sodium as Na (mg/L) APHA 3500B Date of Reporting Date of Reporting Parable Limits As Per is 10500 N 1.0 N APHA 4500C APHA 4500B Sodium as Na (mg/L) APHA 3500B APHA 3500B APHA 3500B APHA 3500B APHA 3500B ARRIVATION APHA 3500B	0.2		ľ	APHA 3500B	(mg/L)	Potassium as K	19
ess M/S Himachal Pradesh Date of Sampling 13th Dec, Shongtong-Karchham (Powari-Ralli) Date of Receipt 16th Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, STL/EHS/L16026/14 SURFACE WATER – FROM CONFLUENCE OF TANGLING KHADD Fluoride as F (mg/L) APHA 4500D As Per IS 10500 Nitrite as NO2 (mg/L) APHA 4500B Nitrite as NO2 (mg/L) Nitrite as NO2 (mg/L) APHA 4500B Nitrite as NO2 (mg/L)	2.7		1	APHA 3500B	ng/L)	Sodium as Na (r	100
ess M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralli) No: STL/EHS/L16026/14 SURFACE WATER - FROM CONFLUENCE OF TANGLING KHADD Parameter Methods As Per IS 10500 Silica as SiO ₂ (mg/L) APHA 4500C APHA 4500C Date of Receipt 16th De Apha 4500C Date of Reporting 22nd De Apha 4500C As Per IS 10500 Receipt 16th De Apha 4500C	≅		:	APHA 4500B	ng/L)	S S	17
ess M/S Himachal Pradesh Date of Sampling 13th Dec.	i\	0	1	APHA 4500C	ng/L)	Silica as SiO ₂ (r	1 o
ess M/S Himachal Pradesh Date of Sampling 13th Dec, Shongtong-Karchham (Powari-Ralli) Date of Receipt 16th Dec, Kinnaur (H.P)-172107. Date of Reporting 22nd Dec, STL/EHS/L16026/14 SURFACE WATER - FROM CONFLUENCE OF TANGLING KHADD Parameter Methods As Per IS 10500 Resi	₹.		1.0	APHA 4500D	ng/L)	Fluoride as F (n	15
e of the Industry M/S Himachal Pradesh Power Corporation Limited Shonglong-Karchham (Powari-Ralli) Pate of Receipt M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13th Dec. Manuar (H.P)-172107. No: STL/EHS/L16026/14 SURFACE WATER - FROM CONFLUENCE OF TANGLING KHADD	esul	70	Desirable Limits As Per IS 10500	Methods	eter	Param	S.No.
e of the Industry M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13th Dec. Shongtong-Karchham (Powari-Ralli) Date of Receipt 16th Dec., HEP (450 MW) Reckong-Peo, Distl., Kinnaur (H.P)-172107. Date of Reporting 22nd Dec., STL/EHS/L16026/14		g	OF TANGLING KHAI	ROM CONFLUENCE	WATER -	SURFACE	ľ
e of the Industry M/S Himachal Pradesh Power Corporation Limited Power Corporation Limited Power Corporation Limited Shonglong-Karchham (Poweri-Ralli) Pate of Receipt HEP (450 MW) Reckong-Peo, Distl., HEP (450		21		16026/14	STL/EHS/L	ο.	RH N
the Industry M/S Himachal Pradesh Power Corporation Limited Date of Sampling 13th Dec. Shongtong-Karchham (Powari-Ralli) Date of Receipt 16th Dec.	, 2°	22nd De	_		Kinnaur (H.P)		T
M/S Himachal Pradesh Power Corporation Limited Date of Sampling	Ċ, 2	16 th De	of Receipt		Shongtong-Ka	SS.	Addre
	Ö	13th De	15	_	Power Cor	of the Industry	Name

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Authorized by: 2

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TEST REPORT

Address	SS	Shongtong-Karchham (Powari-Ralli) HEP (450 MW) Reckong-Peo, Distl., Kinnaur (H.Pt-172107	n (Powari-Ralli) ong-Peo, Distt.,	Date of Receipt Date of Reporting	16th Dec.
REF No:	0:	STL/EHS/L16026/14	14		
	SURFACE	WATER -	CONFLUENC	FROM CONFLUENCE OF TANGLING KHADD	ADD
S.No.	Para	Parameter	Methods	Desirable Limits As Per IS 10500	0 13
_	모		APHA 4500B	8 6.5-8.5	\dashv
12	Taste		T	Agreeable	-
¢ω	Odour		1	Agreeable	+
4	Color (Hazen Unit)				-
ĊΊ	Turbidity (NTU)		APHA 2120C	\dashv	-
თ	Total Discoluted Care		APHA 2120C	\dashv	
7	Joian Dissolved Solids (mg/L)	ids (mg/L)	APHA 2120C APHA 2130B APHA 2540C		
œ	Total Suspended Solids	ids (mg/L)	APHA 2120C APHA 2130B APHA 2540C APHA 2540D		++++
9	Total Suspended So Total Hardness	Color (Hazen Unit) Turbidity (NTU) Total Dissolved Solids (mg/L) Total Suspended Solids Total Hardness as CaCO ₃ (mg/L)	APHA 2120C APHA 2130B APHA 2540C APHA 2540D APHA 2340C		
10	Total Alkalinity as	ids (mg/L) Diids as CaCO ₃ (mg/L)	APHA 21200 APHA 21308 APHA 25400 APHA 25400 APHA 23400 APHA 23208		
	Total Suspended Solids Total Hardness as Ca Total Alkalinity as Ca Calcium as Ca (mg/L)	ds (mg/L) liids as CaCO ₃ (mg/L) as CaCO ₃ (mg/L)	APHA 2120C APHA 2130B APHA 2540C APHA 2540D APHA 2340C APHA 2320B APHA 3500B		
11	Total Suspended Solids Total Hardness as CaCO Total Alkalinity as CaCO Calcium as Ca (mg/L) Magnesium as Mg (mg/L)	ids (mg/L) Diids as CaCO ₃ (mg/L) as CaCO ₃ (mg/L) g (mg/L)	APHA 2120C APHA 2130B APHA 2540C APHA 2540C APHA 2340C APHA 2320B APHA 3500B		
11 12	Total Suspended So Total Hardness : Total Alkalinity a Calcium as Ca (t Magnesium as M	Solids (mg/L) Solids d Solids ss as CaCO ₃ (mg/L) y as CaCO ₃ (mg/L) a (mg/L) s Mg (mg/L) Chlorine (mg/L)	APHA 2120C APHA 21308 APHA 2540C APHA 2540C APHA 2340C APHA 23208 APHA 35008 APHA 35008		
13 13 13	Total Suspended Solids Total Hardness as Ca Total Alkalinity as Ca Calcium as Ca (mg/L) Magnesium as Mg (m Residual free Chlorin Chloride as Cl (mg/L)	ids (mg/L) Dlids as CaCO ₃ (mg/L) as CaCO ₃ (mg/L) is CaCO ₃ (mg/L) ig (mg/L) ig (mg/L) ig (mg/L)	APHA 2120C APHA 2130B APHA 2540C APHA 2540C APHA 2340C APHA 2320B APHA 3500B APHA 3500B APHA 4500B		

Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001

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2" Floor, SMR Chambers, H.No.: 1-58/7, Opp.: SI. Ann's tr. College, Madinaguda, Hyderabad - 500 050, Telangana, INDIA, Tel.: +51-40-23041900, 23041905, 40215094 E-mail: quality@startechabs.com [D.L.No.: TIARIAPIZOO4JALIG]



TEST REPORT

Name of the Industry M/S Himachal Pradesh Pradesh Prover Corporation Littled Shongling Prover Corporation Littled Prover Corporation Littled Prover Corporation Littled Prover Corporation Littled Date of Sampling 13 work of Receipt 16 prover Shonglong-Karchnam (Powari-Raling Date of Receipt 16 prover Struck Prover Shonglong-Karchnam (Powari-Raling Date of Receipt 16 prover Struck Prover At Powari-Raling Date of Receipt 16 prover Struck Prover At Powari-Raling Date of Receipt 16 prover Struck Prover At Powari-Raling Date of Receipt 16 prover Struck Prover At Powari-Raling Date of Receipt 16 prover Struck Prover At Powari-Raling Date of Receipt 16 prover At Powari-Ral	RIP	Authorized by Leafen	4	Checked by: A. Blown ====================================	necked
M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralin) HEP (450 MW) Reckong-Peo, Distt. Date of Receipt Oate of Receipt Oate of Receipt Date of Receipt Oate of Reporting Oate of Receipt Oate of Receipt Oate of Reporting Oate of Reporting Oate of Reporting Oate of Receipt Oate o	Ì		en sample.	a) S	emarks
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Of the Industry	Absent	Should be Absent		oer Correlli	1
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wish industry M/S Himachal Pradesh Power Corporation Limited Shongtong-Karchham (Powari-Ralin) Date of Sampling Power (HEP (450 MW) Reckong-Peo, Distt. Date of Receipt Kinnaur (H.P)-172107. No: STL/EHS/L16028/14 SURFACE WATER - FROM SULTEJ RIVER AT POWARI Parameter Methods As Per is 10500 fluoride as F (mg/L) APHA 4500D 1.0 Silica as SiO ₂ (mg/L) APHA 4500B Sodium as Na (mg/L) APHA 3500B Potassium as K (mg/L) APHA 3500B Cadmium as Cd (mg/L) APHA 3500B 0.01	Not D		APHA 3500B	ron as Fe (mg/L)	
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M/S Himachal Pradesh Power Corporation Limited Date of Sampling	16th De	of Receipt	Karchham (Powari-Ralii) W) Reckong-Peo, Distt.		Addre
	13th De		chal Pradesh	-	Name

Website: www.startechlabs.com E-mail: rambabu.g@startechlabs.com, startechlabs@gmail.com Approved Laboratory by MoEF, OHSAS 18001 and ISO 9001 .

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Tel.: +91-40-23041900, 23041905, 40215094

E-mail: quality@startechlabs.com [DLNo.: 1/RR/AP/2004/AL/G]



TEST REPORT

	Power Corporation		Care or Samping	10000001 2
	Shongtong-Karchhair	*=	late of Receipt	16th Dec, 2
	Kinnaur (H.P)-172107	ighted, Dist.,	late of Reporting	22nd Dec,
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Para	meter	Methods	Desirable Limits As Per IS 10500	s Res
		APHA 4500B	6.5-8.5	7.
Tasle		I,	Agreeable	Agree
Odour		1	Agreeable	Agree
Color (Hazen Unit)	ti i	APHA 2120C	O1	
Turbidity (NTU)		APHA 2130B	1	
al Dissolved Soli	ds (mg/L)	APHA 2540C	. 500	.;;
ai Suspended Sc	olids	APHA 2540D	3	2
Total Hardness	as CaCO3 (mg/L)	APHA 2340C	200	21
Total Alkalinity a	is CaCO ₃ (mg/L)	APHA 2320B	200	-
Calcium as Ca (r	ng/L)	APHA 3500B	75	95
gnesium as M	g (mg/L)	APHA 3500B	30	r:
Residual free Ch	lorine (mg/L)	APHA 4500B	0.2	-
Chloride as Cl (n	ng/L)	APHA 4500B	250	7,
Sulphate as SO ₄	(mg/L)	APHA 4500E	200	21
Address REF No: REF No: 9 Total Dissolved 7 Total Suspende 8 Total Hardne: 9 Total Alkalini 10 Calcium as C 11 Magnesium a 12 Residual free 13 Chloride as C	Sur Para Para Para Para Para Para Para Alkalinity a al Alkalinity a	Power Corporat Power Corporat Shongtong-Karchha HEP (450 MW) Red Kinnaur (H.P)-17210 STL/EHS/L16028 URFACE WATER - ameter ameter ameter ameter ameter (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L)	Shongtong-Karichham (Power-Corporation Limited Shongtong-Karichham (Power-Raili) HEP (450 MW) Reckong-Peo, Distt., Kinnaur (H.P)-172107. STL/EHS/L16028/14 URFACE WATER – FROM SULTEJ APHA 4500E ameter Methods APHA 21200 APHA 2130E APHA 2540E APHA 2540E Solids (mg/L) APHA 2540E Solids (mg/L) APHA 2300E (mg/L) APHA 3500E Mg (mg/L) APHA 4500E Mg (mg/L) APHA 4500E APHA 4500E	Power Corporation Limited Shongtong-Karchham (Powari-Raili) Date of Receip Kinnaur (H.P)-172107. Date of Report

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Page No.

PATEL ENGINEERING LTD

Shongtong-Karchham Hydroelectric Project (450 MW) Reckong Peo, Kinnaur (H. P.) - 172 107



DETAIL OF MANPOWER IN SHONGTONG - KARCHHAM H. E. PROJECT (450 MW)

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As on 07-01-2015	GRAND Remarks (If	any)	.						14			
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	Himachali	From District Kinnaur	PAE/PAA/PAZ	M	•	53	53			Percentage of Himachali (in Project Roll Staff)	Percentage of Kinnaur (in Project Roll Staff)	Percentage of Non-Himachali (in Project Roll Staff)
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		om D	PAI	E	•	*	0			limac	innat	H-uoj
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	Name of Employer/ Contractor				PATEL ENGINEERING up. HO Roll Staff/Employee	PATEL ENGINEERING ^{trp.} Project Roll Staff/ Employee	TOTAL	(No Private Transport has been taken for this Project)	SUMMARY:	Α.	В.	ij
	SI.	No.		1	₩	2						
				1								

Annexure-7

PATEL ENGINEERING LTD. Shongtong - Karchham HE Project (450 MW) Reckong Peo, Kinnaur HP - 172 107

Detail of HO STAFF (as on 7-1-2015)

						Γ											Γ																		
Contact Detail	amitava.mitra@pateleng.com	ri.srinivasa@pateleng.com	taranathshetty92@gmail.com	mehlajitenderkumar@gmail.com	jaisingh.thakur@pateleng.com	kamlesh.sharma550@gmail.com	jcivil.singh@gmail.com	na	anshuman.prasad@pateleng.com	na	vinod.vinod.kumar51@gmail.com	sudershan.sharma@pateleng.com	subhashsharma456@gmail.com	sharmarajeshkumar54@yahoo.com	kishorkumarguleria@vahoo.com	stkhep.accounts@pateleng.com	amit.1985lakria@gmail.com	rsnegipateleng@gmail.com	vishal_gpt1984@yahoo.com	gurudev.rana@pateleng.com	pratulbera1964@gmail.com	vikas.chandra@pateleng.com	na	vinaypurohit.2008@rediffmail.com		kadirivelu 1977@yahoo.com		sarojroutrey69@gmail.com	NA	loveen.thakur@pateleng.com	er.ankurchauhan12@gmail.com	*	rajvikas900@gmail.com		
Wheather Transferred/ New Joining	Transferred from HO	Transferred from Gongri	Transferred from Rampur	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	New Joining	Transferred from Rishikesh Yard	New Joining	Transferred from Rishikesh Yard	New Joining	Transferred from HO	Transferred from Rishikesh Yard	Transferred from Parwati	New Joining	New Joining	Transferred from Rampur	Transferred from Rampur	Transferred from Rampur	New Joining	New Joining	Transferred from Rampur	New Joining	Transferred from Rampur	Transferred from Rampur
Native State	Non-Himachalli	Non-Himachalli	Non-Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Non-Himachalli	Himachalli	Non-Himachalli	Non-Himachalli	Non-Himachalli	Himachalli	Himachalli	Himachalli	Non-Himachalli	Himachalli	Non-Himachalli	Himachalli	Himachalli	Non-Himachalli	Non-Himachalli	Non-Himachalli	Non-Himachalli	Himachalli	Non-Himachalli	Himachalli	Non-Himachalli	Non-Himachalli	Himachalli	Himachalli	Non-Himachalli	Himachalli	Non-Himachalli	Non-Himachalli
Date of Joining	10.12.2014	3/25/2014	01.04.2013	22.10.2012	19.11.2012	26.11.2012	16.10.2012	01.11.2012	04.12.2012	01.12.2012	10.01.2013	15.01.2013	15.01.2013	02.02.2013	18.02.2013	26.02.2013	11.03.2013	12.03.2013	15.03.2013	05.06.2013	10.06.2013	16.07.2013	25.07.2013	11/6/2013	1/1/2014	1/6/2014	1/8/2014	1/8/2014	1/9/2014	2/1/2014	2/1/2014	2/3/2014	2/3/2014	2/3/2014	2/3/2014
Category	Executive	Executive	Executive	Executive	Executive	Executive	Supervisor	Supervisor	Executive	Workman	Executive	Executive	Executive	Executive	Supervisor	Executive	Supervisor	Executive	Executive	Executive	Executive	Executive	Workman	Executive	Executive	Executive	Executive	Executive	Workman	Executive	Executive	Supervisor	Executive	Supervisor	Workman
Designation	General Manager (Projects))	AGM (P&A)	DGM (Plant)	Deputy Manager (Elec.)	Officer (P&A)	Project Engineer (Civil)	Surveyor	Supervisor (Blasting/ Civil)	Engineer (Mech)	Jr. Fitter	Project Engineer (Civil)	Store Officer	Asstt. Manager (Mech.)	Asstt. Manager (Civil)	Sr. Surveyor	Asstt. Manager (Accounts)	Surveyor	Officer -(Admin)	Jr. Officer - Accounts	Engineer (Mech)	Deputy Manager (Mech.)	Officer (Stores)	Operator/ Driver	Engineer (Survey)	Jr. Officer (Purchase)	Asstt. Manager (Civil)	Deputy Manager (Elec.)	Asstt. Manager (Mech.)	Operator (DG)	Engineer (Civil)	Engineer (Elect.)	Asstt. Foreman (Civil)	Engineer (Mech)	Sr. Foreman (Mech.)	Sr. Welder
	Amitava Mitra	Col. (Retd) R. J. Srinivasa	B. Taranath Shetty	Jitender Kr Mehla	Jaisingh Thakur	Kamlesh Kumar Sharma	Joginder Kumar	Sanjay Kumar	T			\neg	\neg				Amit Choudhary		Vishal Gupta	Gurdev Singh Rana	\neg			Т	_	ヿ	\neg			\neg	T	T	\neg		Jagannath Rout
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 | manish_thakur26@yahoo.com | YOURSELFUL THE THE STREET COLL | dknandev75@omail.com | nri.neeraikblsp/@vahoo.in
 | T (| jaideep.prajapati@pateleng.com | asheesdevsharma073@gmail.com | abhinav.sdgr@gmail.com | deepak.divakaran@pateleng.com | |
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| Transferred from Rampur | Transferred from Rampur | New Ioining | Transferred from Ramour | New Ioining | New Joining | New Joining | New Joining | New Joining | Transferred from Rampur | Transferred from Rampur | Transferred from Rampur | Transferred from Rampur | Transferred from Rampur | New Joining | I ransferred from Kampur

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 | 7/10/2014 | 7/14/2014 | 10/15/2014 | 10/16/2014 | 10/31/2014 | 10/31/2014 | 11/3/2014
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| Supervisor | Executive | Supervisor | Supervisor | Workman | Workman | Executive | Supervisor | Executive | Executive | Supervisor | Supervisor | Supervisor | Supervisor | Supervisor | Supervisor

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| Asstt. Foreman (Civil) | Jr. Officer (Stores) | Asstt. Foreman (Mech.) | Blaster | Mechanic | Operator (Compressor) | Geologist | Foreman (Civil) | Engineer (Civil) | Asstt. Manager (Civil) | Jr. Foreman (Mech.) | Sr. Foreman (Mech.) | Sr. Admin. Asstt. | Foreman (Mech.) | Foreman (Civil) | Asstr. Foreman (CIVII)

 | Engineer (Civil) | Fnoineer (Civil) | Works Manager | Project Engineer (QA/QC)
 | Senior (Foreman) | Manager (Civil/Survey) | Engineer (Mech) | Engineer (Civil) | Sr. Accountant | Mechanic | Assistant Manager (Civil)
 | Engmeer (Elect.) | Assistant Manager (Consul.) | Works Manager (Civil) | Clerk (Store) | Mechanic | Sr. Foreman (Mech.) | Sr. Foreman (Civil)
 | Apprentice Engineer | Works Manager (Civil) | Sr. Operator (H-V) | Apprentice Engineer | Manager (Civil) | Manager (Stores)
 | ACA (ACA) |
| Arvind Kumar Tripathi | Sanjay Kumar Gadhai | | | | | | | Puran Chand | Mohinder Singh | Kekh Ram Kaushal | | | | | Natura Charan Dass

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Banjay Kumar Cadhai Bapervisor 2/18/2014 Non-Himachalli Transferred from Rampur Menk Ram Pam Purnanand Chanda Operator (Compressor) Workman 2/18/2014 Non-Himachalli New Joining Divan Chand Starnan Goologistical Executive 5/3/2014 Non-Himachalli New Joining Divan Chand Starnan Goologistical Executive 5/3/2014 Non-Himachalli New Joining Divan Chand Executive 5/3/2014 Non-Himachalli New Joining Mohinder Singh Assit Adama, Assit Supervisor 5/8/2014 Non-Himachalli New Joining Kekh Ram Kausha Ir. Foreman (Mech.) Supervisor 5/8/2014 Non-Himachalli Transferred from Rampur Amiliar Anali K. Asatt Executive 5/3/2014 Non-Himachalli Transferred from Ramp | Sariby Kuntar Galdhai F. Officer (Stores) Supervisor 2/3/2014 Non-Himachili Transferred from Rampur Ramana (Calthain Baster Ramana Ramana (Calthain Baster Ramana (Calthain Baster Ramana Ramana (Calthain Baster Ramana | Supports of State of State of States and Civilian Supports of States and Sta | Songje Kumat Gaelhai Roster Storman (Crist) Supervisos 2/5/2014 Non-Himachalli Transferred from Rampur Patratanario Chatturodey Research Kand Pan Raster Froman (Neth.) Supervisos 7/18/2014 Non-Himachalli Transferred from Rampur Remanario Chatturodey Research Kand Pan Research Research Kand Pan Research Resea | Aread Kumar (Tapath) Asset Foreman (Cred) Supervisor 2/5/2014 Non-Himachall Transferred from Ranpur Parameter (July 2014) Paramanand Cabatravedy Asset Foreman (Mech.) Supervisor 2/18/2014 Non-Himachall Transferred from Ranpur Parameter (July Ranger) Paramanand Chatravedy Asset Foreman (Mech.) Supervisor 2/18/2014 Non-Himachall Transferred from Ranpur Mech.) Physical Sand Operator (Compressor) Workman 2/12/2014 Non-Himachall New Joining Dhewa Saph Cabahan Geologist Eccurine 5/2/2014 Himachall New Joining Dhewa Saph Cabahan Spectros 5/2/2014 Mon-Himachall New Joining Dhewa Saph Casaha Aset Leonand (Mech.) Supervisor 5/2/2014 Mon-Himachall Instructor (Insulant Comman (Mech.) And K. Kanshak See Pecurine 5/2/2014 Mon-Himachall Insulant From Read from Ranpur Reader (Insulant Ranger) And S. K. Kanshak See Pecurine 5/2/2014 Mon-Himachall Insulant Reader (Insulant Ranger) And S.
K. Kanshak See Pecurine 5/2/2014 Mon-Himachall |

2/00

Date of Date of Joining Dative State Wheather Transferred/ New Joining
Date of Joining
Designation Category
Designation

Particulars	Percentage
Himachalli	39%
Non-Himachalli	61%
TOTAL STRENGTH	100%

	. T. W. D.				I
0	Cadre Wise Detail	H			
challi	31	Non.Himachalli	48	TOTAL	
cecutive	25	Executive	22	47	1
pervisor	4	Supervisor	17	21	1
/orkman	2	Workman	6	11	1
				79	1

PATEL ENGINEERING LTD. Shongtong - Karchham HE Project (450 MW) Reckong Peo, Kinnaur HP - 172 107

Detail of Project Roll Manpower (as on 07-01-2015)

SI. No.	Employee No.	Name of Employee	Father's / Husbands Name	Designation	Date of Ioining	Native State	Category	Class	Category	Gram	Remarks
1	PEL-002	Brijesh Kumar	Sh. Ram Singh	All round Operator	03.12.2012	Non-Himachalli	Highly Skilled	Workman	Othors	Othors	1
2	PEL-003	Shashi Kumar	hor	LMV Driver	01 09 2012	Himachalli	Skilled	_	Others	Oulens	Cilampawat
8	PEL-005	Besar Singh	Balam Ram	Cook	_	Himachalli	Somi Chillod	Workman	Others	Outers	Nauta No. 1:
4	PEL-006	Sukhwant Singh	Sh. Jeevan Singh	Khalasi	T	Non-Himachalli	Semi Skilled	Workman	Others	Officers	Amilai
2	PEL-008	Narender Kumar	Tej Ram	Technical Supervisor	03.12.2012	Himachalli	Skilled	Sunervisor	Othere	Others	Mandi
9	PEL-007	Vijay Kumar	Dass	Khalasi	03.12.2012	Non-Himachalli	Semi Skilled	Workman	Others	Others	Kathua
7	PEL-011	Subhash Chand Sharma	Sh. Shali Ram Sharma	LMV Driver	01.01.2013		Skilled	Workman	Others	Others	Mandi
∞	PEL-014	Sanjeev Kumar	Sh. Madan Lal	Cook Helper	12.01.2012		Unskilled	Workman	Others		Shimla
6	PEL-016	Ravi Kumar	Sh. Daulat Ram	Jr. Electrician	Т	Himachalli	Semi Skilled	Workman	PAF	, <u>F</u>	Kinnaur
10	PEL-017	Ganeshi Lal	Sh. Seva Sukh	Electrical Helper	Т	Himachalli	Unskilled	Workman	PAF	Khawanoi	Kinnaur
11	PEL-018	Rajesh Kumar		HMV Driver	T	Himachalli	Skilled	Workman	PAZ	Kothi	Kinnaur
12	PEL-019	Ravinder Kumar	Lt. Bhajan Singh	HMV Driver	Т		Skilled	Workman	PAZ		Kinnaur
13	PEL-022	Karam Singh	Krishan Chand	JCB Operator	2/11/2013		Skilled	Workman	Others		Mandi
14	PEL-023	Udya Shankar	Rajender Lal	Welder	-		Skilled	Workman	Others		Mandi
13	PEL-024	Sant Ram Sharma	Jai Kishan	Foreman	2/18/2013		Highly Skilled	Supervisor	Others		Chamba
16	PEL-025	Tara Chand	Chhadoob Ram	Store Helper	20-02.2013	Himachalli	Unskilled	Workman	PAF		Kinnaur
17	PEL-027	Vipin Kumar	Gautam Singh	Survey Helper	20-02.2013	Himachalli	Unskilled	Workman	PAF	-	Kinnaur
18	PEL-028	Surya Parkash	Bhagat Singh	Survey Helper	20-02.2013	Himachalli	Unskilled	Workman	PAF		Kinnaur
19	PEL-030	Deepak Kumar	Layak Ram	Jr. Welder	3/1/2013	Himachalli	Semi Skilled	Workman	MPAF		Kinnaur
70	PEL-031	Naresh Kumar	Sardar Chand	Auto Electrician	3/1/2013	Himachalli	Skilled	Workman	Others		Bilaspur
77	PEL-032	Sunit Singh	- 1	Sr. Electrician		Himachalli	Highly Skilled	Workman	Others		Chamba
2	PEL-033	Pawan Kumar	- 1	HMV Driver		Himachalli	Skilled	Workman	PAF	ngi	Kinnaur
53	PEL-034	Anant Ram	- 1	HMV Driver		Himachalli	Skilled	Workman	PAZ		Kinnaur
177	PEL-035	Jagdish	- 1	HMV Driver		Himachalli	Skilled	Workman	PAF	Barang	Kinnaur
3 3	PEL-037	Mitra Chand	- 1	LMV Driver	3/2/2013	Himachalli	Skilled	Workman	PAZ	Shudarang	Kinnaur
97	PEL-040	Keji Kumar	- 1	Technical Supervisor	3/5/2013	Himachalli	Skilled	Supervisor	Others		Chamba
2	PEL-044	Khem Raj	- 1	Electrical Helper	3/5/2013	Himachalli	Skilled	Workman	Others		Mandi
87	PEL-041	Devinder Kumar	- 1	Jr. JCB Optr.	3/9/2013	Himachalli	Semi Skilled	Workman	PAF		Kinnaur
29	PEL-042	Prem Parkash		Pharmacist		Himachalli	Skilled	Workman	PAF		Kinnaur
200	PEL-050	Duni Chand	- 1	Cook Helper		Himachalli	Unskilled	Workman	Others		Chamba
37	PEL-USI	Davinder Pal	- 1	JCB Operator		halli	Skilled	Workman	Others		Ropar
25	PEL-052	Devender Kumar	- 1	JCB Operator			Skilled	Workman	Others	Others	Mandi
3	PEL-054	Naseeb Singh	- 1	Cook			Semi Skilled	Workman	Others	Others	Chamba
4. F	PEL-055	Diwan Singh	Late. Labh Singh	Jr. Store Clerk		Himachalli	Unskilled	Workman	Others		Mandi
3	PEL-056	Kakesh Kumar	Kanwar Sukh	Store Attendant		Himachalli	Semi Skilled	Workman	PAZ	Shudarang	Kinnaur
36	PEL-057	Jai Pal	Sonam Bodh	HMV Driver		Himachalli	Skilled	Workman	PAF	10	Kinnaur
37	PEL-058	Desh Raj	Middle Singh	HMV Driver		Himachalli	Skilled	Workman	PAZ	1	Kinnaur
38	PEL-060	Chander Kant	- 1	Electrical Helper	T	Himachalli	Unskilled	Workman	1,0		Mandi
39	PEL-061	Chander Mohan	- 1	Meter Reader	01.06.2013	Himachalli	Skilled	Workman		Ī	Kinnaur
40	PEL-063	Rohit Kumar		Mechanical Helper	01.06.2013	Himachalli	Unskilled	Workman	MPAF		Kinnaur
#1	PEL-064	Anirudh Kumar	- 1	Electrical Helper		Himachalli	Semi Skilled	Workman	PAZ	Ī	Kinnaur
42	PEL-065	Chander Kant	- 1	Mechanical Helper			Unskilled	Workman	PAZ	Shudarang	Kinnaur
43	PEL-066	Joginder Singh	Puran Singh	LMV Driver		Himachalli	Skilled	Workman	Others		Mandi
# 15	FEL-050	Kavinder Kumar	Lok Nath Sharma	LMV Driver	14.06.2013			Workman	PAZ		Kinnaur
2	rec-0/0	Vidya Krishan	Sh. Lafan Sain	LMV Driver		Himachalli	Skilled	Workman	PAF	Barang	Kinnaur

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Remarks	Shimla	Hamirpur	Hamirpur	Kullu	Shimla	Kinnaur	Mandi	Kinnaur	Mandi	Rajouri	Kinnaur	Hamirpur	Kinnaur	Kinnaur	Kinnaur	Kinnaur	Kinnaur	Kullu	Kinnaur	Kinnaur	Chamba	Kangra	Hoshiyarpur	Aligarh	Shimla	Kathua	Bijor	Mandi	Nepal	Shimla	Shimla	Kullu	Shimla	Kinnaur	Kinnaur	Mandi	Hamurpur	Shimla	Kinnaur	Chamba	Kinnaur	Mandi	Bilaspur	Sidhi	Shimla	Basti	North 24 P	Kullu	Hamirpur	Mandi	Hamirnur
Gram Panchayat	Others	Others	Others	Others	Others	Labrang	Others	Khawangi	Others	Others	Barang	Others	Pangi	Pangi	Pangi	Kalpa	Shudarang	Others	Khawangi	Powari	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others			İ		Others	Orners		ano		ľ							Others			Others
Category	Others	Others	Others	Others	Others	Others	Others	PAF	Others	Others	PAF	Others	Others	Others	Others	PAZ	PAZ	Others	PAF	MPAF	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others	Others	PAF	PAF	Others	Ouners PA7	Others	PAZ	Others	MPAF	Others	Others	Others	Others	Others	Others	Others	Others		Others
Class	Workman	Supervisor	Supervisor	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Supervisor	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Supervisor	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Workman	Supervisor	Workman	Workman	Workman	Workman
Category	Semi Skilled	Skilled	Skilled	Semi Skilled	Semi Skilled	Unskilled	Skilled	Unskilled	Skilled	Skilled	Unskilled	Skilled	Unskilled	Semi Skilled	Unskilled	Unskilled	Skilled	Highly Skilled	Unskilled	Skilled	Skilled	Skilled	Skilled	Highly Skilled	Skilled	Skilled	Skilled	Skilled	Highly Skilled	Unskilled	Skilled	Semi Skilled	Unskilled	Unskilled	Unskilled	Trained	Skilled	Skilled	_	Unskilled	Unskilled	Skilled	Skilled	Skilled		Highly Skilled	Skilled	Skilled	pa	Skilled	
Native State	Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Himachalli	Non-Himachalli	Himachalli		Himachalli		Himachalli			Himachalli					\neg	halli		_	halli		halli	P						Himocholli			Γ				Himachalli	Non-Himachalli	Himachalli 📗		Non-Himachalli				Himachalli
Date of Joining		17.06.2013			-	10/4/2013			10/8/2013	10/26/2013	28/2013	L.			_	-	_	\neg	\neg	-		\neg	_	~	-	\rightarrow	26/2013	_	\rightarrow	\sim	7		/3/2014	3/2014	2/3/2014		10/2014	1	2/12/2014 I	1		2/18/2014 I	2/26/2014 F	3/1/2014	3/4/2014 I	3/7/2014	3/10/2014			4/7/2014 I	
Designation	Cook	Tech. Supervisor (M)	Supervisor (Civil)	Cook	Cook	Store Helper	HMV Driver	Mech. Helper	HMV Driver	Mechanic	Mech. Helper	Mechanic	Mech. Helper	Safety Assistant	Survey Helper	Survey Helper	Data Entry Operator	Data Entry Operator	Mech. Helper	LMV Driver	HMV Driver	HMV Driver	Excavator Operator	Boomer Operator	Tech. Supervisor (M)	Auto Electrician	Boomer Operator	Excavator Operator	Boomer Operator	Electrical Helper	Welder	Cook	Cook Helper	Helper	Helper	Cook Holner	Driver (HMV)	Shotcrete Operator	Driver (HMV)	Survey Boy	Survey Boy	Tyre Fitter	Driver (HMV)	Boomer Operator	Boomer Mechanic	Boomer Operator	Supervisor (Civil)	Workshop Supervisor	Cook Helper	Electrician	Electrician
.E	Krishaniya Ram	Chaudhary Ram	Koop Singh	Anant Kam	late Devi Chand Sharma	Bhag Chander	Param Ram	Sanam Lal	Chet Ram	Lok Nath Raina	Prem Bhagat	Jagat Ram	Vikram Singh	Dil Chand	ngu	Devi Nar	Roop Lai	Najeshwar Sharma		Frem Chand	Sobhia Kam	Ami Chand	Koshan Lal	Subhas Chandra Sharma	- 1	- 10	Surmuk Singh		Laka Lama		late Ganga Kam	Shiv Dass	Chan Share	Bho en Si an	I ma I al	Prakash Chand	Yangur	utt Sharma	Sh. Vidya Sukh Negi	Ravan Ram	SSI	Sh. Nand Lal	Roshan Lal	Chander Shekhar Prasad	lt. Dhiraj Ram Bisht	Barichi Gupta	Lt. Chittaranjan Hari	Ram Dass	Jagdish Chand	Ludermani Sharma	Sh. Avtar Singh
of Employee		ıar			rma		lar	gh	nar			ī		Sunii Kumar		,	7.	T	Unarmender Kumar	nar			T	ashtha	yaı		ıgu		na		Treesh Numar			Chalch Vienas				Sharma			Parveen Kumar			ıkarma	sht	umar			Ī	mar Sharma	Kaj Kumar
No.	PEL-071	PEL-072	PEL-0/4	PEL-0/6	ret-0/0		_	П	\neg	\neg				PEL-U8/	Т	7	7	1 LL-0/2	-	_	7				_			PEI 100	7	_	_	-	_	_		Τ.	$\overline{}$	PEL-120			PEL-123	\neg		\neg	\neg	\neg	-				FEL-133
So.	46	47/	40	44	3 [21	25	25	χ !	က္ခြင့	9 [2/2	80	60 03	3 5	10	20	50	#0	S	99	/9	80	60	2 5	1/	772	C/	# 12	27	0/2	78	0/ 0/	ς (δ	81	82	83	84	85	98	87	88	68	8	91	92	93	46 1	3	2	16

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98 PEL-135 Fa 99 PEL-136 Ra 100 PEL-137 Jag 101 PEL-138 Pr. 102 PEL-139 CT- 103 PEL-140 Ra 104 PEL-141 Su 105 PEL-142 Sa 106 PEL-144 Sa 107 PEL-145 Sa 108 PEL-145 Sa 110 PEL-145 Sa 111 PEL-145 MA 111 PEL-147 Vii 111 PEL-148 MA 111 PEL-148 MA 111 PEL-148 MA 111 PEL-148 PA 111 PEL-148 PA 111 PEL-148 PA 111 PEL-148 NA 111 PEL-148 NA 111 PEL-148 NA 111 PEL-148 NA 111 PEL-148 NA 111 PEL-155 PA 111 PEL-155 SA 111 PEL-156 SA 111 PEL-156 SA 112 PEL-156 PA 113 PEL-156 PA 114 PEL-156 PA 115 PEL-156 PA 116 PEL-156 PA 117 PEL-156 PA 118 PEL-156 PA 119 PEL-156 PA 110 PEL-156 PA	Fanu Ram Ramesh Kumar Jagdish Kumar Pravesh Kumar Chander Prakash Raj Kumar Sunil Negi Suresh Kumar Arjun Kumar Arjun Kumar Arjun Kumar Arjun Kumar Mandeep Kumar Rameshwar Sharma Sandeep Kumar Kaushik Vinay Kumar Singh Mohinder Singh	Sh. Bralu Ram Sh. Biri Singh Sh. Amarjeet Singh Sh. Bhim Sen Sh. Sonam Negi Sh. Karan Bahadur		Johnson		Category	CIASS	Category	Panchavat	Remarks	ر.
PEL-136 PEL-137 PEL-138 PEL-140 PEL-141 PEL-142 PEL-145 PEL-145 PEL-145 PEL-145 PEL-157 PEL-157 PEL-156 PEL-156 PEL-156 PEL-157	mesh Kumar gdish Kumar avesh Kumar hander Prakash ij Kumar mil Negi rresh Kumar ndeep Kumar ameshwar Sharma undeep Kumar Singh inay Kumar Singh oohinder Singh		HMV Driver	4	Himachalli	Skilled	Workman	Others	Othors	Chimle	4
PEL-137 PEL-140 PEL-141 PEL-141 PEL-142 PEL-143 PEL-145 PEL-146 PEL-146 PEL-146 PEL-147 PEL-147 PEL-150 PEL-157	gdish Kumar avesh Kumar hander Prakash aj Kumar mil Negi rresh Kumar rjun Kumar ndeep Kumar ameshwar Sharma ander Kumar Kaushik inay Kumar Singh oohinder Singh		Shotcrete Optr.	1	Himachalli	Highly Skilled	_	Others	Others	Mandi	
PEL-138 PEL-140 PEL-141 PEL-142 PEL-145 PEL-145 PEL-146 PEL-146 PEL-147 PEL-147 PEL-154 PEL-155 PEL-155 PEL-155 PEL-156 PEL-156 PEL-156 PEL-156 PEL-156 PEL-156 PEL-157 PEL-15	arvesh Kumar nander Prakash ji Kumar ruril Negi ruresh Kumar riun Kumar undeep Kumar Sharma undeep Kumar Singh inay Kumar Singh ohinder Singh		LMV Driver	03.05.2014	Himachalli	Skilled	-	Others	Others	Mandi	
PEL-140 PEL-141 PEL-142 PEL-145 PEL-145 PEL-146 PEL-147 PEL-147 PEL-151 PEL-157 PEL-157 PEL-157 PEL-158 PEL-157 PEL-158 PEL-157 PEL-158 PEL-158 PEL-158 PEL-158 PEL-159	alander Prakash ji Kumar iuril Negi rresh Kumar ridan Kumar ridan Kumar ridan Kumar ridan Kumar ridan Kumar ridan Sharma ridaep Kumar Sharma riday Kumar Singh ohinder Singh		LMV Driver	03.05.2014	Himachalli	Skilled	Workman	Others	Others	Kullu	
PEL-140 PEL-141 PEL-142 PEL-145 PEL-146 PEL-146 PEL-147 PEL-147 PEL-150 PEL-157 PEL-157 PEL-157 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-158 PEL-159	ij Kumar ruril Negi rresh Kumar rijun Kumar ndeep Kumar Sharma undeep Kumar Kaushik inay Kumar Singh ohinder Singh		HMV Driver	08.05.2014	Himachalli	Skilled	Workman	PAF	Khawangi	Kinnaur	
PEL-141 PEL-142 PEL-145 PEL-145 PEL-146 PEL-147 PEL-148 PEL-150 PEL-156 PEL-157 PEL-156 PEL-156 PEL-157 PEL-158 PEL-158 PEL-158 PEL-158	rresh Kumar rresh Kumar rjun Kumar undeep Kumar ameshwar Sharma undeep Kumar Kaushik iray Kumar Singh ohinder Singh	ı	Boomer Operator	5/5/2014	Himachalli	Highly Skilled	Workman	Others	Others	Shimla	
PEL-145 PEL-146 PEL-147 PEL-147 PEL-149 PEL-150 PEL-151 PEL-153 PEL-155 PEL-155 PEL-155 PEL-155 PEL-156 PEL-156 PEL-156 PEL-157 PEL-157 PEL-158	riesn kumar rjun Kumar ameshwar Sharma ndeep Kumar Kaushik iray Kumar Singh ohinder Singh		Mechanical Helper		Himachalli	Unskilled	Workman	PAF	Powari	Kinnaur	
PEL-145 PEL-146 PEL-146 PEL-147 PEL-147 PEL-150 PEL-157 PEL-157 PEL-157 PEL-157 PEL-158 PEL-158 PEL-158 PEL-158 PEL-159	rjun Kumar ndeep Kumar imeshwar Sharma undeep Kumar Kaushik inay Kumar Singh iohinder Singh	-	HMV Driver		Himachalli	Skilled	Workman	PAZ	Kalpa	Kinnaur	
PEL-145 PEL-146 PEL-147 PEL-150 PEL-157 PEL-157 PEL-157 PEL-157 PEL-157 PEL-157 PEL-158 PEL-158 PEL-158 PEL-158	ndeep Kumar imeshwar Sharma undeep Kumar Kaushik inay Kumar Singh iohinder Singh aresh Kumar	525	Jr. Electrician	5/8/2014	Himachalli	Semi Skilled	Workman	Others	Others	Shimla	
PEL-140 PEL-147 PEL-148 PEL-150 PEL-151 PEL-153 PEL-154 PEL-155 PEL-155 PEL-156 PEL-156 PEL-156 PEL-156 PEL-156	imeshwar Sharma ndeep Kumar Kaushik inay Kumar Singh Ohinder Singh aresh Kumar		LMV Driver	2014	Himachalli	Skilled	Workman	Others	Duni	Kinnaur	
PEL-147 PEL-148 PEL-150 PEL-151 PEL-153 PEL-154 PEL-155 PEL-155 PEL-155 PEL-157 PEL-157 PEL-159	ndeep Kumar Kaushuk nay Kumar Singh ohinder Singh aresh Kumar	- 1	Batching Plant Operator	5/9/2014	Non-Himachalli	Skilled	Workman	Others	Others	Aligarh	
PEL-137 PEL-150 PEL-151 PEL-153 PEL-154 PEL-155 PEL-155 PEL-156 PEL-157 PEL-158 PEL-159	nay Kumar Smgn ohinder Singh aresh Kumar		Foreman (Batching Plant)	/9/2014	Non-Himachalli	Highly Skilled	Supervisor	Others	Others	Hathras	
PEL-150 PEL-151 PEL-153 PEL-154 PEL-155 PEL-155 PEL-156 PEL-157 PEL-158 PEL-159	onmuer omgn aresh Kumar	- 1	Store Assistant	\neg	Non-Himachalli	Skilled	Supervisor	Others	Others	Varanasi	
PEL-153 PEL-153 PEL-154 PEL-155 PEL-156 PEL-157 PEL-158 PEL-158 PEL-159	arean Number	Sh. Auna Nam	Attendant Q. C.	/13/2014	Himachalli	Semi Skilled	Workman	Others		Kangra	
PEL-153 PEL-154 PEL-155 PEL-156 PEL-157 PEL-157 PEL-158 PEL-159	Pritam Dace		Cook Helper		Himachalli	Unskilled	Workman	Others	Others	Shimla	
PEL-154 PEL-155 PEL-156 PEL-157 PEL-158 PEL-159 PEL-159	Vipan Kumar		Shorffrer	0/0/2014	Himachalli Non Himachalli	Unskilled	Workman	Others	Others	Hamirpur	
PEL-155 PEL-156 PEL-157 PEL-157 PEL-158 PEL-159	Shiv Kumar	T	Log-Keeper		Himachalli	Thekilled	Workman	Others	Others	Hoshuyarpur	
PEL-156 PEL-157 PEL-158 PEL-159	Anil Kumar		Cook	+-	Himachalli	Semi Skilled	Workman	Others	Powari	Colan	
PEL-157 PEL-158 PEL-159 PEL-159	Dinesh Kumar	Sh. Chet Ram	All round Operator	-	Himachalli	Highly Skilled	Workman	Others		Mandi	
PEL-158 PEL-159	Vikram Singh	Sh. Geeta Ram	LMV. Driver	-	Himachalli	Skilled	Workman	MPAF		Kinnaur	
PEL-159	Raj Kumar	Sh. Jai Nand	HMV Driver	_	Himachalli	Skilled	Workman	Others		Kinnaur	
DE1 -160	Devi Chand	Sh. Layak Ram	LMV Driver	_	Himachalli	Skilled	Workman	Others	Nathpa	Kinnaur	
I EL-LOU	Narbu Gialchhan		HMV Driver	11/14/2014	Himachalli	Skilled	Workman	Others	Γ	Kinnaur	
PEL-161	Janak Raj		HMV Driver	11/15/2014	Himachalli	Skilled	Workman	Others		Shimla	
PEL-162	Mohan Mahanty	- 1	HEM Mechanic	15/2014	Non-Himachalli	Skilled	Workman	Others	Tentulidiha	Khurda	
	Naveen Kumar Sharma	- [Boomer Operator	-	Non-Himachalli	Highly Skilled	Workman	Others	Dehra	Buland Sehar	
PEI 165	riarish Kumar		Electrician	_	Himachalli	Skilled	Workman	Others	ų	Mandi	
PEI -166	Cubbach Chand	Sh. brum Sen	Cook Helper		Himachalli	Unskilled	Workman	Others		Kinnaur	
PEL-168	Prem Kumar	Ш	Cook neiper	11/18/2014	Himachalli	Unskilled	Workman	Others	T	Mandi	
PEL-169	Sanam Ram		I MV Drivor		Uimachalli	Skilled	Workman	PAF		Kinnaur	
PEL-170	Krishan Kumar	Sh. Gopal Chand	HMV Driver	71/2014	Himachalli	Skilled	Workman Workman	PAF	T	Kınnaur	
PEL-171	Arjun Singh	1	HMV Driver		Himachalli	Skilled	Workman	Others	T	Kınnaur	
1	Rakesh Kumar	1	HMV Driver	72/2014	Himachalli	Skilled	Workman	Others	Chansu	Kunnaur	
133 PEL-173 Yo	Yogesh		Batching Plant Operator		Himachalli	Skilled	Workman	PAF		Kinnaur	
PEL-174	Shiv Kumar	Sh. Chattar Singh		+	Himachalli	Skilled	Workman	PAF		Kinnaur	
PEL-176	Sanjay Kumar	- 1	HMV Driver	11/26/2014	Himachalli	Skilled	Workman	PAF	.Ē	Kinnaur	
PEL-177	Jitender Singh	- 1	Mech. Helper	12/1/2014	Himachalli	Unskilled	Workman	PAF	Г	Kinnaur	
13/ FEL-1/8 Ka	Kaj Krishan	- 1	Mech. Helper	1/2014	Himachalli	Unskilled	Workman	MPAF		Kinnaur	
DET 181	Navinder Numar	- 1	Log-Keeper	-	Himachalli	Unskilled	Workman	MPAF		Kinnaur	
PFI-182	an Monan	Sh. Frem Sagar	Mech. Helper	,2014	Himachalli	Unskilled	Workman	MPAF	Tangling	Kinnaur	
PFI -183	Kowal Krishan	Sh. Talas Nam	Mech. Helper	_	Himachalli	Unskilled	Workman	MPAF	\neg	Kinnaur	
PEL-184	Dev Kumar		Mech Helper	12/1/2014	Himachalli	Unskilled	Workman	PAF		Kinnaur	
PEL-185	Tara Chand	1	Mech. Helper	1	Himachalli	Unskilled	Workman	PAF		Kinnaur	
144 PEL-186 Jee	leevan Singh Negi		Helper (General)	1	Himachalli	Unskilled	Workman	MPAF	Khawangi	Kinnaur	
PEL-187	Vijay Kumar	Sh. Sohan Singh	Mech Helper	1	Himachalli	Unskilled	Workman	MPAF		Kinnaur	
PEL-188	Sameer Chand	Sh. Deva Singh	Mech. Helper	/2014	Himachalli	Unskilled	Workman	PAF	1	Kinnaur	
PEL-189	Anil Kumar	- 1	Mech. Helper		Himachalli	Unskilled	Workman	PAF		Kinnaur	
PEL-190	Vinya Devi	- 1	Helper (General)	\neg	Himachalli	Unskilled	Workman	PAF		Kinnaur	
149 PEL-191 Sha	Shamsher Singh	Sh. Tandub Ram	Mech. Helper	12/1/2014	Himachalli	Unskilled	Workman	PAF		Kinnaur	

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Remarks		Kınnaur	Kinnaur	Kinnaur		Numaur	Kınnaur	Kinnaur	Kinnaur	Vinnaur	- Inning	Kımaur	Kullu	Venal	Nenal	Rudrantavad	Kullin Kanayas	Saharanpur
Gram		-	Khawangi K	Mehar		T	barang K	Ralli		1,	-1-	Shudarang K	Darmot K		ara	Т	Τ	npur
Category	T V	FAF	PAF	PAF	DAE	77.	FAF	MPAF	PAZ	DAZ	277	FAZ	Others	Others	Others	Others	Others	Others
Class	Morlomen	MOINTIGHT	Workman	Workman	Workman	Weinian	Workman	Workman	Workman	Workman	IA70-1	Workman	Supervisor	Workman	Workman	Workman	Workman	Workman
Category	Hackillod	Clishilled 11 1 11 1	Unskilled	Unskilled	Unckilled	Theland	Onskilled	Unskilled	Unskilled	Unskilled	Troleillod	Oriskined	Highly Skilled Supervisor	Semi Skilled	Highly Skilled	Highly Skilled Workman	Skilled	Unskilled
Native State	Himachalli	Transferrence	rumachalli	Himachalli	Himachalli	Limochalli	uniacitatii	Himachalli	Himachalli	Himachalli			Himachalli	12/2/2014 Non-Himachalli Semi Skilled	12/2/2014 Non-Himachalli	12/2/2014 Non-Himachalli		halli
Date of Joining	L		12/1/2014 Filmachalli	12/1/2014 Himachalli	12/1/2014 [Himachalli	11.42.m:H 11.701/1/21	#102 / 7 / 7Y	12/1/2014	12/1/2014	12/1/2014 Himachalli	117/1/2014	#T07 / 7 / 71#	12/1/2014 Himachalli	12/2/2014	12/2/2014	12/2/2014	11/24/2014 [Himachalli	12/5/2014
Designation	Log-Keener	Moch Holms	media ricipal	Mech. Helper	Mech. Helper	I oa-Koonor	to breches	Mech. Helper	Helper (General)	Helper (General)	Mech Helner	Macali Treaper	Compounder	Cook	Boomer Operator	Boomer Operator	Loader Operator	Sweeper
Father's/Husbands Name	Sh. Mitter Dev	Sh Nar Bhadur		on. onyam Chand	Sh. Daya Chand	Sh. Kesru Ram		Sh. Baldev Singh	Sh. Thap Singh	Sh. Narjeet	Sh. Muker Sinoh		Sh. Padam Singh Thakur	Sh. Induk Budha	Sh. Man Bahadur	Sh. Udai Mingwal	Sh. Pune Ram	Sh. Nathlu
Name of Employee	Raj Chander	PEL-194 Anil Kumar			PEL-196 Chet Ram			aj		PEL-200 Kiran Kumar	PEL-201 Bharat Bhushan		ur	PEL-203 Vishnu Budha	PEL-204 Karan Bahadur	PEL-205 Rakesh Mingwal	PEL-206 Raj Kumar	Chander Pal
Employee No.	PEL-192	PEL-194	DET 105	1 55-173	PEL-196	PEL-197 Moti Lal	DET 100	PEL-198 Hans Kay	PEL-199 Divesh	PEL-200	PEL-201	COC TITO	FEL-202	PEL-203	PEL-204	PEL-205	PEL-206	PEL-207
SI. No.	150	151	152	707	153	154	40,00	133	156	157	158	0 11	139	160	161	162	163	164

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Cadre Wise (Himachalli)

Himachalli Executive Supervisor Workmen

133

Non-Himachalli Executive Supervisor

Workman

ORIGIN-WISE EMPLOYMENT DETAIL: Employment Provided Percentage	L: Percentage		Category	CATEC	CATEGORY-WISE: Employment Provided	Percentage
Iimachalli	141	%98	MPAF		14	%6
Shimla	14	10%	PAF		36	22%
Kinnaur	62	26%	PAA		0	%0
Mandi	21	15%	PAZ		17	10%
Kullu	8	%9	Others		26	26%
Bilaspur	2	1%	TOTAL		164	
Chamba	2	2%				
Lahul & Spiti		%0				
Sirmour	10	%0		ı	PANCHAYAT - WISE EMPLOYMENT:	MPLOYMENT:
Hamirpur	7	2%	E	Panchayat		Employment Given
Kangra	2	1%		Barang		12
Solan	1	1%		Khawangi		16
Una	5	%0		Powari		11
Himachalli	141	86%		Mebar (Ralli)		ಬ
ion-Himachalli	23	14%		Kothi		4
Total Strength	164			Pangi		3
				Kalpa		9
				Duni		1
				Brelingi		1
				Shudarang		9

Cadre Wise (MPAF/PAF/PAZ)

14 00

MPAF

14 23

Executive Supervisor Workman PAF/PAA/PAZ

Executive Supervisor Workman

			Shudarang		9
Particulars	No's	Percentage	TOTAL		92
Total Employment Provided	164				
Total Employment to MPAF/PAF/PAA/PAZ	7.1	43%			
Employment to Himachalli (Other than PAF/PAA)	70	43%	Category	ory	No's of Workmen
Employment to others	23	14%	Unskilled	led	55
			Semi Skilled	illed	18
			Skilled	pa	72
			Highly Skilled	killed	19
			TOTAL	AL.	164

machal	Kinnaur	79
nachal	kecutive	0
nachal	pervisor	0
nachal	orkman	62
-	est of Himachal	62
	cecutive	0
	pervisor	8
	Workman	54

Kinnaur	46		
Executive	0		Cota
Supervisor	0		ota
Workman	79	<u>ш</u>	Emp
Rest of Himachal	62		Emp
Executive	0	1	
Supervisor	8		
Workman	54		