

# Chenab Valley Power Projects (P) Ltd

(A Joint Venture of NHPC (A Govt of India Enterprise, JKSPDC (A Govt of J&K Undertaking) & PTC India Ltd)

**Pakal Dul Hydro Electric Project**  
**Chenab Nagar - II, Kishtwar, (J&K) - 182206**  
**CIN NO. U40105JK2011PTC003321**

Ph No. 01995-260661  
Fax No. 01995-260661

No. CVPP/GM/PDHEP/2017-18/ 209

Date 29.11.17

**Additional PCCF (Central)**  
**Northern Regional Office,**  
**Ministry of Environment, Forest and Climate Change, GoI,**  
**Bays No. 24-25, Sector 31-A,**  
**Chandigarh- 160030**  
**Fax- 0172 2638135**  
**E-mail- chdmofenv@gmail.com, ajay.mehrotra13@gov.in**

**Sub:** Environment Clearance of Pakal Dul HE Project (1000 MW) in Kishtwar, J&K:  
Compliance Report.

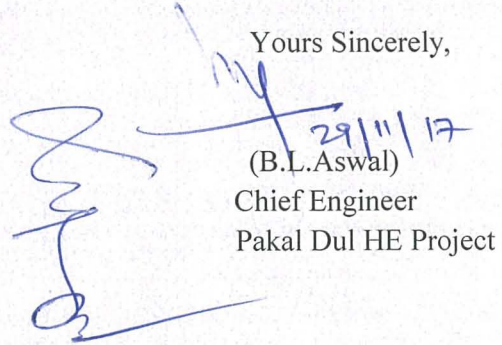
**Ref:** Environment Clearance granted to the Project vide letter no. J-12011/51/2007-IA  
dated 29.02.2008 and transfer of clearance in favour of CVPP  
vide letter no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

We are enclosing herewith Six Monthly Compliance Report in respect of Pakal Dul HE  
Project for the period from April 2017 to September 2017 for your kind information.

Thanking you and Warm Regards.

Yours Sincerely,

  
29/11/17  
(B.L.Aswal)  
Chief Engineer  
Pakal Dul HE Project

Copy to:

**Dr.S. Kerketta**  
**Director,**  
**Impact Assessment Division-1,**  
**Ministry of Environment, Forest & Climate Change,**  
**Indira Paryavaran Bhawan,**  
**JorBagh Road, Ali Ganj,**  
**New Delhi- 110003**  
**Email: s.kerketta66@gov.in, suna1466@rediffmail.com**

## Pakal Dul Hydroelectric Project (1000MW)

### 1. Brief Introduction of Project

Pakal Dul (1000MW) HE Project was initially conceived by NHPC and later on got transferred to Chenab Valley Power Projects [P] Limited (CVPP). CVPP is a Joint Venture Company of NHPC Limited, JKSPDC and PTC (India) Limited incorporated on 13/06/2011 for execution of 03 Hydroelectric Projects namely Pakal Dul, Kiru and Kwar with aggregate capacity of 2164 MW at Chenab River Basin in Distt Kishtwar of Jammu & Kashmir, with equity participation of 49%, 49% and 2% by NHPC, JKSPDC & PTC respectively.

Pakal Dul HE Project is proposed on river Marusudar, a tributary of Chenab in district Kishtwar of J&K State. The project envisages construction of a 167 m high Dam, 2 nos. of Head Race Tunnel of 7.20mtr dia and 10 km length, an underground Power House with 4 units of 250 MW each. The annual energy generation will be 3330 MU.

### 2. Status of Statutory Clearances

Status of statutory clearances is tabulated below:

Techno- Economic Appraisal (TEA)	Accorded by CEA 03.10.2006 ( <i>Transferred in favour of CVPP on 06.08.2012</i> )
CCEA Approval	Accorded in favour of CVPP on 28.10.2014
Environmental Clearance	Accorded by MoEF to NHPC on 29.02.2008 ( <i>Transferred in favour of CVPP on 12.07.2012</i> )
Forest Clearance	Clearance for diversion of 146.66 Ha of forest land accorded by GoJK on 15.12.2015.
Wildlife Clearance	Clarence for diversion of 195.96 Ha of forest land(188.76 ha wildlife land and 7.2 ha Forest land ) accorded by GoJK on 29.11.2016.
NOC from J&K State Pollution Control Board	Consent to Establish for Pakal Dul Project issued by J&K State Pollution Control Board in March 2016.

Status of Other Clearances Clearance from Fisheries Department and clearance from Hydraulic Division (PHE & Irrigation) have been received in the month of February 2016..  
NOC from mining department has been obtained on dated 23.02.2017.

R&R Plan The J&K govt. has approved the Rehabilitation and Resettlement plan of the project vide order dated 22.02.2017 and total payment of Rs 18.72 Cr has been released so far in favour of Commissioner Rehabilitation and Resettlement, Pakal Dul HEP (DC Kishtwar) for implementation of RR Plan

### 3. Status of Private Land Acquisition

#### Power House Area

After accord of Approval by GoJK for acquisition of Private land at Power House Site, full amount of Rs. 24.23 Crs has been deposited with the Administration/ Collector land Acquisition (ACR Kishtwar) for disbursement of compensation to PAFs. So far, an amount of Rs 6.00 Crs has been disbursed to PAFs.

#### Reservoir Area

Approval of GoJK for all land cases of reservoir area has been received in Oct 2016. Final Award of all the land cases have been issued ( except for one case) and Rs. 48.27 Cr have been deposited with the concerned land Collector. So far an amount of Rs 10.45Crs (approx) has been disbursed to PAFs and disbursement is being pursued with the concerned land collector.

### 4. Status of Tender/Award

The tender for Turnkey execution of Pakal Dul HE Project was invited vide NIT no. CVPP/PD/MW/RB/TK/2013 dated 19.06.2013 through International Competitive Bidding (ICB). However, Turnkey tender was cancelled in Feb 2016 due to high cost. Then tendering of works on Package mode was started which was stalled in

view of the interim order dated 02.05.2016 of the Hon'ble High Court of J&K. Hon'ble High Court pronounced its judgement on 28.01.2017 in favour of CVPP Ltd. wherein cancellation of tenders was upheld. Accordingly, tendering process on Package mode for the Project was taken up in following packages of major works and the present status of the tenders is as follows:

**Dam Package** : The Diversion Tunnel package has been merged in Dam Package issued on 04.08.2017.

Bids received from of M/s Jai Prakash Ltd, M/s HCC Ltd, M/s Afcons-CGS JV, M/s UECC-Soma JV and M/s Limak-Patel JV were opened on 08.11.2017 and are under evaluation.

**HRT-TBM Package** : Letter of Award for TBM consultancy works has been issued to M/s Amberg on 27.09.2017. Technical report received from consultant on 10.11.2017 is under evaluation.

**Power House Package** : Technical bids were opened on 28.08.2017 and after evaluation price bids from technically responsive bidders were opened on 17.10.2017. M/s Afcon-JP Associates JV has emerged as lowest bidder. The rates quoted by the bidder were on higher side (42%) and bidder was called for negotiations.

**HM Package** : Tender Documents has been issued on 20.06.2017 and Pre Bid meeting held on 18.08.2017. Last date of submission is on 05.12.2017

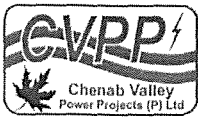
**E&M package** : Tender Documents for E&M works Package has been issued on 28.06.2017. Last date of submission is on 12.12.2017.

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## 5. Status of allied Project Works

1. Road work from Bailey suspension bridge to Main Access Tunnel in the power house area has been completed. For road of TBM Adit, the formation cutting work is in progress.
2. The work of the roads to DT inlet and DT outlet has been awarded on dated 29.08.2017 and works are in progress.
3. The NIT for Bhandarkot Bridge has been issued on dated 21.08.2017 and awarded to M/S. SGF, Jammu. Work in progress.

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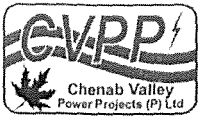
**ANNEXURE-I**

**Six Monthly Compliance Report of PakalDul HE Project (1000MW), District Kishtwar, J&K**

**(April 2017 to September 2017)**

1	Name of Project	Pakal Dul HE Project
2	Type of Project	Hydro Electric Project
3	Clearance letters OM No. and date (a) Environment Clearance  (b) Forest Clearance	(a) Letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPP vide letter no. J-12011/51/2007-IA-I dated 12.07.2012.  (b) Government order no. 334- FST of 2015 dated 15.12.2015 of GoJK for 146.6631 Ha land on Right Bank of river Marusudar.  Government order no. 289-FST 2016 dated 29.11.2016 of GoJK and Corrigendum dated 26.12.2016 for 195.9619 Ha of Forest land (188.7619 ha of former KHANP land and 7.2 ha of Forest land) on Left Bank of river Marusudar.
4	Locations (a) District (s) (b) State (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°27'30"N (d) 75°48'50"E
5	Address for Correspondence (a) Address of concerned Project Head (with Pin code, Telephone/Fax no.)	(a) General Manger, Pakal Dul HE Project, CVPP Ltd., Chenab Nagar-II, Kishtwar, J&K. Pin code- 182206 Telephone:- 01995-260723/9971955066 Email:gmpdhep@gmail.com

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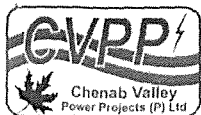
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	(b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)	(b) Managing Director, Chenab Valley Power Projects (P) Ltd, Chenab Jal Shakti Bhawan, Opposite Saraswati Dham, Rail Head Complex, Panama Chowk, Jammu- 180012, J&K Phone/Fax: 0191 2475516/ 2479835																										
6	Detail of Environmental Management Plan	Environmental Management Plans to be implemented at the project are: <table border="1"> <thead> <tr> <th>S. No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation Plan</td></tr> <tr><td>2.</td><td>Catchment Area Treatment</td></tr> <tr><td>3.</td><td>Fisheries Development</td></tr> <tr><td>4.</td><td>Public Health Delivery System</td></tr> <tr><td>5.</td><td>Solid Waste Management</td></tr> <tr><td>6.</td><td>Provision for fuelwood/ LPG depot &amp; Energy Conservation Measures</td></tr> <tr><td>7.</td><td>Relocation &amp; Rehabilitation of Dumping sites</td></tr> <tr><td>8.</td><td>Landscaping &amp; restoration of construction areas</td></tr> <tr><td>9.</td><td>Creation of Green Belt around reservoir</td></tr> <tr><td>10.</td><td>Disaster Management Plan</td></tr> <tr><td>11.</td><td>Resettlement &amp; Rehabilitation Plan</td></tr> <tr><td>12.</td><td>Environmental Monitoring Programme</td></tr> </tbody> </table>	S. No.	EMP	1.	Biodiversity Conservation Plan	2.	Catchment Area Treatment	3.	Fisheries Development	4.	Public Health Delivery System	5.	Solid Waste Management	6.	Provision for fuelwood/ LPG depot & Energy Conservation Measures	7.	Relocation & Rehabilitation of Dumping sites	8.	Landscaping & restoration of construction areas	9.	Creation of Green Belt around reservoir	10.	Disaster Management Plan	11.	Resettlement & Rehabilitation Plan	12.	Environmental Monitoring Programme
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7	Breakup for Project area (Land details)	Forest Land: 342.62 ha Private/ Revenue Land: 139.46  Total Land: 482.08 ha																										
8	Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours/artisans.  (a) SC/ST/Adivasis (b) Others	No of affected villages:- 6 Displaced PAFs:- 104 Non displaced PAFs:- 656 Total PAFs:- 760  (a) Scheduled Tribe:- 2																										

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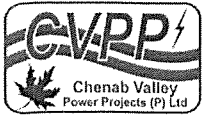
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9	<p>Financial Details</p> <p>(a) Project cost as originally planned and subsequent revised estimates and the year of price reference</p> <p>(b) Actual expenditure incurred on the Project so far</p> <p>(c) Allocation made for Environment Management Plan</p> <p>(d) Actual expenditure incurred on EMP so far</p>	<p>(a) Project cost: 5088.88 Cr (July 2005 PL)          CCEA approved: 8112.12 Cr (March 2013 PL)</p> <p>(b) Actual expenditure: 707.12Crs(approx.) (till September 2017)</p> <p>(c) Allocations for EMP ( at 2013 PL): 330.32 Crs.</p> <p>(d) Actual expenditure incurred on EMP: Major Project works yet to to start. However, expenditure incurred by CVPP on EMP and other related activities upto 31.10.2017 include:</p> <p>1. Forest and wild life Land Diversion = Rs. 196.015 cr</p> <p>2. Corpus fund for Wild life Conservation =Rs. 236.0 cr</p> <p>3. Fishriēs Development Plan = Rs. 10 Lac</p> <p>4. Implementation of R&amp;R plan = Rs. 18.72 cr</p> <p align="right">Total = Rs. 450.835 cr.</p>
10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p>	<p>(a) Forest clearance for diversion of 146.66 Ha forest land on right bank of dam/reservoir from GoJ&amp;K obtained on 15.12.2015. Requisite amount of Rs 17.81 cr deposited with J&amp;K State Forest department on 15.09.2015 .Forest Clearance for diversion of 188.76 Ha forest land(earlier KHANP land) on left bank of dam/ reservoir along with 7.2 Ha of Forest Land for underground works in Dul area obtained on dated 29.11.2016. Requisite amount of Rs 178.2055 cr deposited with J&amp;K State Forest department on 19.09.2016.</p> <p>(b) Clear felling status: The requisite amount of Rs</p>

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# Chenab Valley Power Projects (P) Ltd

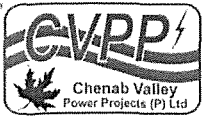
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	(b) The status of clear felling of trees in Forest Land	3,44,38,140/-towards cost for extraction of trees has been deposited with J&K State Forest Corporation. The work of tree felling is in progress.
11	Status of Construction (a) Date of commencement (actual and/or planned) (b) Date of completion (actual and/or planned)	(a) Date of commencement (planned) :by end of the year 2017. (b) Date of completion (planned):66 months from the start of major works.
12	Reasons for the delay (If the Project is yet to be started)	Turnkey tender was cancelled in Feb 2016 due to high cost. Then tendering of works on Package mode was started which was stalled in view of the interim order dated 02.05.2016 of the Hon'ble High Court of J&K. Hon'ble High Court has pronounced its judgment on 28.01.2017 in favour of CVPP Ltd. wherein cancellation of tenders was upheld. Accordingly, CVPP has restarted the tendering process on Package mode for the Project.
13	Details of Site visits (a) By Monitoring Committee (b) By Regional Office	Nil Nil
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as Annexure-II.

7/05/17  
Sr. ED



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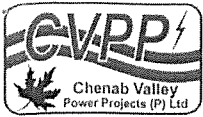
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**ANNEXURE-II**

**Status of Compliance of conditions stipulated by MOEF&CC, Govt. of India vide Environmental Clearance letter dated 29.02.2008.**

S.N	Specific Conditions	Compliance Status
o.		
i	Catchment area treatment Plan as proposed should be completed in Five years	Soil Conservation Department, GoJK has been requested to take up the Catchment Area Treatment work. Work shall be started once the construction of major structures of the Project is started.
ii	During the construction of the project, if any person/family whose acquired land is more than 70% of the total land holding is identified, such family/person shall be treated as fully affected families. R&R package proposed for the displaced families shall be extended to such families. NRRP- 2007 package will be followed for R&R of PAFs.	The RR Plan of Pakal Dul HEP has been approved by GoJK vide Government Order no. 12-DMRR&R of 2017 dated 22.02.2017. The approved R&R Plan is under implemented in consultation with District Administration. 1. Amount deposited by CVPP for implementation of R&R plan (upto 31.10.2017) =18.72 cr. 2. Cumulative amount disbursed to PAFs ( upto 31.10.2017) = 13.68 cr.
iii	A Monitoring Committee for R&R should be constituted which must include representatives of project affected persons from SC/ST category and a woman beneficiary.	DC Kishtwar has been appointed as Commissioner, Rehabilitation and Resettlement for Pakal Dul HE Project vide Govt. Order No. 19-DMRR&R of 2017 dated 16/03/2017. Constitution of R&R committee is awaited.
iv	The commitment made during the public hearing should be fulfilled.	Shall be complied.

7/03/2017  
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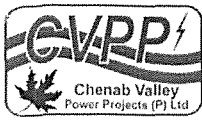
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v	All the equipment which are likely to generate high noise levels are to be fully equipped (noise reduction measures) to meet the ambient noise control standards	Being complied.
vi	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for 70.85 lakh cum of muck disposal i.e. about 34lakhcum is proposed to be utilized during construction and the remaining 36.86 lakh cum of muck disposal at two designated areas (DS1-powerhouse site-14.37 lakh cum;DS2- dam site-22.48 lakh cum) should be strictly implemented.	Shall be complied.
vii	The fisheries management plan as proposed in the letter dated 15.01.2008 should be implemented in totality. The total budget of Rs.339.24 lakhs for the fishery development and conservation in the Marusundar river basin should not be diverted for any other purpose.	Being complied (DPR amounting Rs. 430.lakh submitted by J&K Fisheries Department for implementation of Fisheries Development plan of Pakal Dul HEP. An amount of Rs.10.0 lakh as 1 <sup>st</sup> instalment has been deposited with J&K Fisheries Department on 05.01.2017.
viii	The following conditions imposed by the Standing Committee of National Board for Wildlife (NBWL) while recommending the proposal for de-notification of KHANP area, shall be strictly complied:	
	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be	Complied (Mitigation Plan was prepared/ modified in

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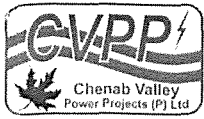
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	discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.	consultation with Wildlife Institute of India, Dehradun.)
	(b)State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.	The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.
	(c )NHPC would provide a total of Rs.236 Crs including Rs.100 Crs. for the corpus fund for the protected area for the conservation of the wildlife.	Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 7.2 ha of forest land) has been obtained vide Govt. Order no. 289-FST 2016 dated 29.11.2016 of GoJK for which Project has deposited Rs 414.20 Crs to Forest Dept. which includes Rs.236 Crs which further includes Rs.100Crs for the corpus fund for the protected area for conservation of wildlife.
ix	No construction work/activity should be initiated till Supreme Court grants de-reservation of National Park area.	Complied vide SRO no. 212 dated 06.07.2015 of GoJK issued after grant of approval by Honorable Supreme Court.
x	Clear felling of trees should be restricted to 4 m below the FR Land a 50 m greenbelt should be created around the reservoir periphery.	Shall be complied
<b>General Conditions</b>		
i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Shall be complied

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ii	Fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG).Medical facilities as well as drinking water & recreational facilities should also be provided to the labourers.	Shall be complied
iii	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit	Shall be complied
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Shall be complied
v	The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose	Shall be complied
vi	A Multidisciplinary committee in consultation with the Ministry should be constituted with Ecologists, Environmental Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	The proposal for constitution of multi-disciplinary committee has been submitted to Director, Impact Assessment Division-1, MoEFCC, on dated 13.02.2017. Approval of MoEFCC is awaited.
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Being complied

7/2/2017  
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