



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/CE (HQ)/PDHEP/2018/2425

Date 31.05.2018

Additional PCCF (Central)

Northern Regional Office,

Ministry of Environment, Forest and Climate Change, GoI,

Bays No. 24-25, Sector 31-A,

Chandigarh- 160030

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

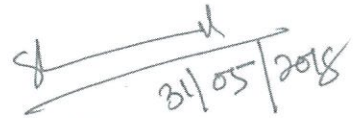
Ref: Environment Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transfer of clearance in favour of CVPP vide letter no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

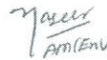
We are enclosing herewith Six Monthly EC Compliance Report in respect of Pakal Dul HE Project for the period from October 2017 to March 2018 for your kind information.

Thanking you and Warm Regards.

Yours Sincerely,


31/05/2018

Senior Manager
Pakal Dul HE Project


Am(Env)

Copy to:

Dr.S. Kerketta

Director,

Impact Assessment Division-1,

Ministry of Environment, Forest & Climate Change,

Indira ParyavaranBhawan,

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 installed 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 on 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. Proposal for diversion of 12.125 ha forest land has been approved by the Forest Advisory Committee and formal Government Order is awaited
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 after grant of approval by Hon'ble Supreme Court of India.
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 28.72 Cr has been released so far in favour of Commissioner Rehabilitation and Resettlement, Pakal Dul HEP (DC Kishtwar) for implementation of RR Plan.

Disbursement of RR benefits is in progress and a payment of Rs 17.56 Crores to Project Affected Families (PAFs) has been made so far.

3. Status of Private Land Acquisition

Final award for acquisition of Power House area land and Reservoir area land has already been accorded. An amount of Rs 72.50 Crores has already been deposited with the Collectorates for disbursement. Out of this, a total payment of Rs. 36.20 Crores (approx.) has been disbursed to land owners comprising Rs. 25.00 cr. for DamReservoir area and Rs. 11.20 cr. for Power House area.

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 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 Price bids opened on 21.02.2018, M/s Jai Prakash Ltd has emerged as L1. Evaluation of Price Bids completed.
- HRT–TBM Package** : Letter of Award for TBM consultancy works has been issued to M/s Amberg on 27.09.2017.
- Bids received from M/s Afcons, M/s Gammon and M/s Patel have been technically evaluated and TEC report finalised. Price bids shall be opened shortly
- Power House Package** : Letter of Award has been issued to M/s Afcon-Jaypee Associates JV on 21.02.2018. Site mobilisation works has been started by a team of M/s Afcon JAL w.e.f 15.03.2018. Site handing over activities have been completed. Excavation work at MAT has been started.
- HM Package** : Price bids opened on 04.04.2018 are under evaluation. M/s Om Metals Pvt Ltd has emerged as lowest bidder.
- E&M package** : Price bids opened on 24.04.2018 are under evaluation. M/s Voith Ltd has emerged as lowest bidder.

5. Status of allied Project Works

1. Bailey Suspension Bridge of 320 ft length over river Chenab has been commissioned on 14.09.2015.
2. The works for MAT Portal of Power House were awarded to M/s shabir Ahmad Kamal on 18.01.2018. Excavation work at MAT was started on 25.01.2018 and the same is in progress.
3. Road work from Bailey suspension bridge to Main Access Tunnel (2.09 Km) in the power house area has been completed. MAT site handed over to M/s Afcon. For TBM Adit road, the formation cutting work upto 4840 mtr against total length of 5.71 Km has been completed.

4. The work of Bhandarkot Bridge has been awarded on 26.09.2017 to M/S. SGF, Jammu and works are in progress.
5. The work of the roads to DT inlet and DT outlet has been awarded on dated 29.08.2017 and works are in progress.

*For
AM (Enr)*



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ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000MW), District Kishtwar, J&K

(October 2017 to March 2018)

Name of Project	Pakal Dul HE Project
Type of Project	Hydro Electric Project
Clearance letters OM No. and date	
(a) Environment Clearance	(a) Letter no. J-12011/51/2007-IA dated 29.02.2008 transferred in favour of CVPP vide letter no. J-12011/51/2007-IA-I dated 12.07.2012.
(b) Forest Clearance	<p>Government order no. 334- FST of 2015 dated 15.12.2015 of GoJK for 146.6613 Ha land on Right Bank of river Marusudar.</p> <p>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.</p> <p>The forest land measuring 146.6613 ha and 188.7619 ha has been handed over by Forest Department on 14.03.2018 for execution of the project.</p> <p>Proposal for diversion of 12.125 ha forest land required for the project has also been approved by Forest Advisory Committee and final Govt. Order is</p>



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	awaited.																						
<p>Locations</p> <p>(a) District (s)</p> <p>(b) State</p> <p>(c) Latitude</p> <p>(d) Longitude</p>	<p>(a) Kishtwar</p> <p>(b) Jammu and Kashmir</p> <p>(c) 33°27'30"N</p> <p>(d) 75°48'50"E</p>																						
<p>Address for Correspondence</p> <p>(a) Address of concerned Project Head (with Pin code, Telephone/Fax no.)</p> <p>(b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)</p>	<p>(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</p> <p>(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</p>																						
<p>Detail of Environmental Management Plan</p>	<p>Environmental Management Plans to be implemented at the project are:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S. No</th> <th style="width: 95%;">EMP</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Biodiversity Conservation Plan</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Catchment Area Treatment</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Fisheries Development</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Public Health Delivery System</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Solid Waste Management</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Provision for fuelwood/ LPG depot & Energy Conservation Measures</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Relocation & Rehabilitation of Dumping sites</td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Landscaping & restoration of construction areas</td> </tr> <tr> <td style="text-align: center;">9.</td> <td>Creation of Green Belt around reservoir</td> </tr> <tr> <td style="text-align: center;">10.</td> <td>Disaster Management Plan</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
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		11. Resettlement & Rehabilitation Plan	
		12. Environmental Monitoring Programme	
	Breakup for Project area (Land details)	Forest Land: 354.75 ha Private/ Revenue Land: 139.46 Total Land: 494.21 ha	
	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	
	Financial Details (a) Project cost as originally planned and subsequent revised estimates and the year of price reference (b) Actual expenditure incurred on the Project so far (c) Allocation made for Environment Management Plan (d) Actual expenditure incurred on EMP so far	(a) Project cost: 5088.88 Cr (July 2005 PL) CCEA approved: 8112.12 Cr (March 2013 PL) (b) Actual expenditure: 723.565 Crs (approx.) (till February 2018) (c) Allocations for EMP (at 2013 PL): 330.32 Crs. (d) Actual expenditure incurred on EMP: Power House Package has been awarded and rest of the major works packages are yet to be awarded. However, expenditure incurred by CVPP on EMP and other	



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		with J&K State Forest Corporation. The work of tree felling is in progress.
Status of Construction		
(a) Date of commencement (actual and/or planned)		(a) Date of commencement (actual) : Out of the Major project works, the Power House package has been awarded on 21.02.2018 and the site mobilization works have been started by contractor on 15.03.2018.
(b) Date of completion (actual and/or planned)		(b) Date of completion (planned): 66 months from the start of major works.
Reasons for the delay (If the Project is yet to be started)		
Details of Site visits		
(a) By Monitoring Committee		Nil
(b) By Regional Office		Nil
Brief note on the status of compliance of conditions stipulated by MOEF&CC		Details are enclosed as Annexure-II.



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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.No.	Specific Conditions	Compliance Status
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. The action by Soil Conservation Department is awaited.
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 implementation. The formulation, approval and implementation of R&R plan comes under the purview of State Government which has adopted a uniform approach in providing the R&R benefits for the PAFs of different HE projects in J&K. The recommendations of MOEFCC for considering non-displaced PAFs with more than 70% of total land holdings as displaced PAFs has not been approved by the State Government for any of the HE project so far. Hence this provision has not been considered by Government of J&K in formulation and approval of R&R plan for



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		Pakal Dul HE project.
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.	<p>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.</p> <p>Monitoring committee is to be constituted by Government under the Chairmanship of Commissioner R&R. the matter was discussed in the meeting of Empowered Committee held on 06.04.2018 under the Chairmanship of Chief Secretary, GoJK wherein the Committee has recommended the constitution of R&R committee. The formal Government order in this regard is awaited.</p>
iv	The commitment made during the public hearing should be fulfilled.	<p>Shall be complied.</p> <p>The R&R plan has been prepared by District Administration and approved by GoJK while duly considering the aspirations and demands of PAFs.</p> <p>On request of CVPP, the revision of approved R&R plan for enhancement in one component of financial assistance to displaced PAFs is under consideration of GOJK.</p> <p>The R&R plan shall be implemented as approved by GoJK</p>



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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 34 lakh cum 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.	Being 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. 430.0 lakh was submitted by J&K Fisheries Department for implementation of Fisheries Development plan of Pakal Dul HEP. An amount of Rs. 196.0 lakhs has been deposited with J&K Fisheries Department. (Rs.10.0 lakh as 1 st instalment on 05.01.2017 and 2 nd instalment of Rs.186.0 lakhs deposited on 26.12.2017).
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:	



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	<p>(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.</p>	<p>Complied (Mitigation Plan was prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.)</p> <p>The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.</p>
	<p>(b)State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.</p>	
	<p>(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.</p>	<p>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.100 Crs for the corpus fund for the protected area for conservation of wildlife.</p>
ix	<p>No construction work/activity should be initiated till Supreme Court grants de-reservation of National Park area.</p>	<p>Complied vide SRO no. 212 dated 06.07.2015 of GoJK issued after grant of approval by Honorable Supreme Court.</p>
x	<p>Clear felling of trees should be restricted to 4 m below the FRL and a 50 m greenbelt should be created around the reservoir periphery.</p>	<p>Being complied. The tree cutting along the FRL is being done only in the area required for the project construction works. The process for creation of greenbelt shall be initiated at the appropriate time.</p>



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7.	The project involves 386.186 ha of forest land falling under KHANP. This clearance is subject to Hon'ble Supreme Court's permission with respect to de-reservation of part of KHANP.	Complied. The core area of KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.
8.	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.	Noted.
9.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	Complied.
10.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied.
12.	The project proponent should advertise within 7 days at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in .	Complied. The requisite advertisement was published in Dainik Jagran (Hindi) and Daily Uzma (Urdu) newspapers dated 07.03.2008.

Handwritten signature
(2011-2012)