



**Chenab Valley Power Projects (P) Ltd**  
A Joint Venture of NHPC (A Govt of India Enterprise), JKSPDC (A Govt of J&K Enterprise)

**Pakal Dul Hydro Electric Project**  
**Chenab Nagar – II, Kishtwar, (J&K) –182206**

Ph No.01995-260723  
Fax No. 01995-260661

CIN NO. U40105JK2011PTC003321

CVPP/PDHEP/GGM (I/C)/2022 / 992 .

Date:31.05.2022

Regional Officer,  
Ministry of Environment, Forests and Climate Change,  
Integrated Regional Office(IRO), Jammu,  
Plot No.379-A, Gandhi Nagar,  
Jammu (J&K)-180004  
Tel.No- 0191- 2959297  
E-mail: env.irojk-mefcc@gov.in, paranjay.s@nic.in

Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of Six Monthly Environment Clearance Compliance Report (ECCR) for the period from October 2021 to March 2022.

Ref: Environmental Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPPL vide letter no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

We are enclosing herewith Six Monthly Environment Clearance Compliance Report (ECCR) in respect of Pakal Dul HE Project for the period from **October 2021 to March 2022** for your kind information.

Thanking you.

Yours faithfully,

  
Group General Manager (I/c)  
Pakal Dul HE Project  
Email: [gmpdhep@gmail.com](mailto:gmpdhep@gmail.com)

Copy to:

1. Director, Impact Assessment Division-1,  
Ministry of Environment, Forests & Climate Change,  
Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj,  
New Delhi- 110003  
Email: [yogendra78@nic.in](mailto:yogendra78@nic.in)
2. Member Secretary, J&K Pollution Control Committee,  
Forest Complex, Gladni, Narwal, Transport Nagar, Jammu (J&K)  
Email: [membersecretaryjkspcb@gmail.com](mailto:membersecretaryjkspcb@gmail.com)
3. Regional Director,  
J&K Pollution Control Committee, Jammu,  
Forest Complex, Gladni, Narwal, Transport Nagar, Jammu (J&K)  
Email : [regionaldirectorjkspcbjmu@gmail.com](mailto:regionaldirectorjkspcbjmu@gmail.com)
4. General Manager, Planning Division, CVPPPL, Jammu.

## 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 (CVPPPL). CVPPPL is a Joint Venture Company of NHPC Limited & JKSPDC incorporated on 13/06/2011; presently, entrusted for execution of 04 Hydroelectric Projects namely Pakal Dul, Kirthai-II, Kiru and Kwar with aggregate installed capacity of 3094 MW at Chenab River Basin in Distt Kishtwar of Jammu & Kashmir.

Pakal Dul HE Project is proposed on river Marusudar, a tributary of Chenab in district Kishtwar of J&K. The project envisages construction of a 167 m high Dam, 2 nos. of Head Race Tunnel of 7.20M diameter 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 CVPPPL on 06.08.2012</i> )
CCEA Approval	Accorded in favour of CVPPPL on 28.10.2014
Environmental Clearance	Accorded by MoEF to NHPC on 29.02.2008 ( <i>Transferred in favour of CVPPPL on 12.07.2012</i> )
Forest Clearance	Clearance for diversion of 146.66 Ha of forest land accorded by GoJK on 15.12.2015. Clearance for diversion of 12.125 ha forest land accorded by GoJK on 26.06.2018. Clearance for felling of left out trees on already diverted forest land accorded on 17.07.2018. Clearance for felling of trees coming under already diverted forest land at right bank of river Marusudar stands accorded vide Order No. 531-(JK) FST of 2019 dated 12.12.2019.  Clearance for diversion of 0.6434 ha of Forest land at left bank of river Marusudar stands accorded vide Government order no. 17(JK) FST of 2020 dated 30.01.2020.
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	Consent to Establish for Pakal Dul Project issued

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ngpr (Eco)

Control Board	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 Govt. Order dated 22.02.2017 and 07.03.2019, total payment of Rs 64.09 Cr has been released as on date 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 Rs 60.50 Crores (upto 31.03.2022) has been disbursed for implementation of approved R&R Plan.

### 3. Status of Private Land Acquisition

Final awards for acquisition of Power House area land and Reservoir area land have been accorded. A total amount of Rs 115.84 Crores as per final awards of land acquisition amounting to Rs. 91.56 Cr. issued to the Project till date has already been deposited with the concerned Collectorate for further disbursement to landowners.

### 4. Status of Tender/Award

The Hon'ble High Court of J&K 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 and awarded works is as under:

**Dam Package** : Dam Package awarded to M/s Jai Prakash Associates Ltd on **21.06.2018** along with Diversion Tunnel and HRT from upstream side. The site has been handed over to M/s Jaiprakash Associates Ltd.

The status of construction works is as-

#### **Diversion Tunnel:**

Excavation of Diversion Tunnel Heading and Benching has been completed on **27.11.2020**. River

*Jai Prakash Associates Ltd*  
*mgr (Em)*

diversion achieved on 01.11.2021.

### **Coffer Dam :**

Upstream and downstream coffer dam is under construction and total quantity filled is 184948 cum out of total estimated quantity is 420000 cum.

### **Excavation of HRT Adits:**

Excavation of Adits to HRT-1 and HRT-2 has been completed.

Excavation of HRT-2: The cumulative progress till date is 1225.997 m, out of total length of 2086.708 m.

Excavation of HRT-1: The cumulative progress till date is 1170.97 m, out of total length of 2034.48m.

### **Intake Gate Platform:**

Excavation between EL1716 m to EL 1714 m under progress. Total excavated quantity of 159040 cum out of total estimated quantity of 377500 cum.

### **Tunnel Spillway:**

Tunnel spillway gate shaft area at EL 1696 m is under progress. Tunnel spillway outlet: Excavation work between EL 1569 m - EL 1560 m is under progress and support work above EL 1612 m is also under progress. Total excavated quantity of 124670 cum out of total estimated quantity of 320000 cum.

### **Surface Spillway:**

Excavation between EL 1718 to EL 1717 m is under progress. Total excavated quantity of 195425 cum out of total estimated quantity of 763000 cum.

**Power Package**      **House :** Letter of Award has been issued to M/s Afcons-JAL JV on 21.02.2018.

The status of construction works is as-

### **Main Access Tunnel (MAT):**

Excavation of MAT (Main Access Tunnel) to Power House of total length of 267 m has been completed on 19.12.2018.

### **Power House Cavern:**

*Nasser  
Mgr (Em)*

Power house excavation works including 4 nos. of pits is near completion. Total excavation of 149053.4 cum achieved out of total estimated quantity of 151293 cum till date. Concreting and reinforcement work is in progress.

**MIV Cavern:**

MIV excavation works is near completion. Total excavation of 18167 cum achieved out of total estimated quantity of 19025 cum till date. Concreting and reinforcement work is in progress.

**Transformer Hall and Bus Ducts:**

Transformer Hall excavation works is near completion. Total excavation of 27801 cum achieved out of total estimated quantity of 28175 cum till date. Concreting and reinforcement work is in progress.

Excavation of all four bus ducts has been completed.

**Surge Shafts and Surge Gallery:**

Adits to SS-1 and SS-2 have been completed. Pilot hole to SS-1 and SS-2 has been completed while reaming works shall commence soon.

Road tunnel to Surge Gallery has been completed. Adit to Surge Gallery-1 has also been completed on 23.01.2022 while Adit to Surge Gallery-2 is under progress, till now 28 m achieved out of total length of 94.3 m. Excavation work of Surge Gallery-1 is also under progress, till now 28 m achieved out of 94.3 m.

**Valve House:**

Excavation of Valve House is near completion and 96.50 m achieved out of 102 m.

**Pressure Shafts:**

Horizontal PS-1 and PS-2 has been completed. Vertical PS2 and PS4 excavation is under progress.

**Tail Race Tunnel:**

Excavation of Adit to TRT has been completed on 14.01.2022. Excavation of TRT-1 with Draft Tube: 99.00 m achieved out of total length 104 m. Excavation of TRT-2 with Draft Tube: 64.00 m achieved out of total length 104 m.

*Jasraj*  
*mgr (EM)*

**HM Package**

: Letter of award has been issued to **M/s PES Engineers Pvt. Ltd** on dated **26.08.2019**.

The status of construction works is as-

Supply of materials is under progress for various work fronts.

Erection of ferrule in Lower Horizontal Portion, 2.9 dia including connection with MIV- PS1B is under progress and 24.6 m ferrule erected out of total length of 54.6 m.

Erection of ferrule in Lower Horizontal Portion, 2.9 dia including connection with MIV- PS2A is under progress and 17.9 m ferrule erected out of total length of 54.6 m.

**E&M package**

Letter of Award has been issued to M/s Voith Hydro Ltd. on dated **02.01.2019**.

The status of construction works is as-

Supply of materials is under progress for various work fronts.

Laying of Earthmat at various works front in Power House is under progress.

Draft tube Unit-1 and Unit-2 is handed over to E&M Contractor on 08.03.2022 and 20.03.2022 for laying of Earthmat and related activities. Work is under progress.

Laying of oil drain embedded pipes in Transformer Cavern from Grid 13 to 17 is in progress.

**HRT-TBM package**

: Letter of Award has been issued to M/s L&T Construction on dated **03.07.2020**.

The status of construction works is as-

TBM-1 has arrived at Mumbai Port from Germany. Excavation of TBM Portal upto El 1580m has been completed and below EL 1580m is under progress.

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my (L&T)



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**Fax No. 01995-260661**

**ANNEXURE-I**

**Six Monthly EC Compliance Report of Pakal Dul HE Project (1000 MW)**  
**(October 2021 to March 2022)**

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	<p>(a) Letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPPPL vide letter no. J-12011/51/2007-IA-I dated 12.07.2012.</p> <p>(b) Government order no. 334- FST of 2015 dated 15.12.2015 of GoJK for 146.6613 Ha land on Right Bank of river Marsudar.</p> <p>Government order no. 289-FST 2016 dated 29.11.2016 of GoJK with 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 Marsudar.</p> <p>Government sanction for diversion of 12.125 ha of Forest land on left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018.</p> <p>Government sanction for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018.</p> <p>Government sanction for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Order No. 531-(JK) FST of 2019 dated 12.12.2019.</p> <p>Government sanction for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands</p>

*Yashraj  
Mgt (Env)*



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		accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020.																										
4	<b>Locations</b>  (a) District (s) (b) State/UT (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°27'30"N (d) 75°48'50"E																										
5	<b>Address for Correspondence</b>  (a) Address of concerned Project Head (with Pin code, Telephone/Fax no.)  (b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)	(a) Group General Manger (I/c), Pakal Dul HE Project, CVPPP Ltd., Chenab Nagar-II, Kishtwar, J&K. Pin code- 182206 Telephone: - 01995-260723 Email:gmpdhep@gmail.com  (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	<b>Detail of Environmental Management Plan</b>	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 System1</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 System1	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.	<b>Breakup for Project area (Land details)</b>	Forest Land: 355.3918 ha  Private/ Revenue Land: 177.81  Total Land: 533.2018 ha																					
8	<b>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.</b>  (a) SC/ST/Adivasis (b) Others	No of affected villages: - 6 Displaced PAFs: - 110 Non displaced PAFs: - 656 Total PAFs: - 766  (a) Scheduled Tribe:- 2																					
9	<b>Financial Details</b>  (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: Rs.2204.01 Crs (till March 2022)  (c) Allocations for EMP (at 2013 PL): 330.32 Crs.  (d) Actual expenditure incurred on EMP: Expenditure incurred by CVPPPL on EMP and other related activities as on date: <table border="1" data-bbox="725 1344 1285 1816"> <thead> <tr> <th>S.No</th> <th>Component</th> <th>Expenditure (Rs. in Cr)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Forest and wild life Land Diversion</td> <td>203.335</td> </tr> <tr> <td>2</td> <td>Fund for Wildlife Management including corpus fund</td> <td>236.0</td> </tr> <tr> <td>3.</td> <td>Fisheries Development Plan</td> <td>1.96</td> </tr> <tr> <td>4.</td> <td>Biodiversity Management Plan</td> <td>2.30</td> </tr> <tr> <td>5.</td> <td>Implementation of R&amp;R plan</td> <td>64.09</td> </tr> <tr> <td></td> <td>Total</td> <td>507.66</td> </tr> </tbody> </table>	S.No	Component	Expenditure (Rs. in Cr)	1.	Forest and wild life Land Diversion	203.335	2	Fund for Wildlife Management including corpus fund	236.0	3.	Fisheries Development Plan	1.96	4.	Biodiversity Management Plan	2.30	5.	Implementation of R&R plan	64.09		Total	507.66
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10	<b>Forest Land Requirements</b>																						

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mgr (Env)



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<p><b>(a) Status of approval diversion of Forest Land for non-forestry use</b></p>	<p><b>(a) Forest clearance for diversion of 146.66 Ha forest land on right bank of dam/reservoir has been accorded by GoJK 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 has been accorded by GoJK on dated 29.11.2016. Requisite amount of Rs 178.2055 Cr deposited with J&amp;K State Forest department on 18.06.2016 and the amount of Rs. 236 Crs towards wildlife management was deposited on 19.09.2016.</b></p> <p><b>Government sanction order for additional 12.125 ha of Forest land at left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018. Requisite amount of Rs 6.3083663 Cr deposited with J&amp;K State Forest department on 15.05.2018.</b></p> <p><b>Government sanction order for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018. Requisite amount of Rs 7613899/- deposited with J&amp;K State Forest department on 15.05.2018.</b></p> <p><b>Government sanction order for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Govt. Order No. 531-(JK)FST of 2019 dated 12.12.2019. Requisite amount of Rs. 1490391/- deposited with J&amp;K State Forest department.</b></p> <p><b>Government sanction order for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020. requisite</b></p>
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	<b>(b) The status of clear felling of trees in Forest Land</b>	amount of Rs. 505310/- deposited with J&K State Forest department.  (b) Clear felling status: The requisite amount of Rs 4.31413 Cr towards cost for extraction of trees has been deposited with J&K State Forest Corporation. The work of tree felling and extraction is in progress.
<b>11</b>	<b>Status of Construction</b>  <b>(a) Date of commencement (actual and/or planned)</b>  <b>(b) Date of completion (actual and/or planned)</b>	(a) Date of commencement (actual): Out of the Major project works, the Power House package was the first to be awarded on 21.02.2018.  (b) Date of completion (planned): 66 months from the start of major works.
<b>12.</b>	<b>Reasons for the delay (If the Project is yet to be started)</b>	N.A.
<b>13</b>	<b>Details of Site visits</b>  <b>(a) By Monitoring Committee</b>  <b>(b) By Regional Office</b>	Nil  Nil
<b>14.</b>	<b>Brief note on the status of compliance of the conditions stipulated by MOEF&amp;CC</b>	Details are enclosed as Annexure-II.

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mgr(Env)



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**ANNEXURE-II**

**Status of Compliance to 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	<p>The cost provision for CAT Plan as approved by MoEF was Rs. 21.33 Crs which was revised in CCEA approval (Investment Approval by Gol) to Rs. 36.38 Crs.</p> <p>Soil &amp; Water Conservation Department, GoJK was requested to take up the implementation of Catchment Area Treatment works. Accordingly, CAT plan has been technically sanctioned by the Soil &amp; Water Conservation Department, GoJK for revised cost of Rs. 46.86 Cr. The Project has also conveyed confirmation to Soil and Water Conservation Department, GoJK regarding availability of Rs. 46.86 Cr for implementation of the CAT Plan.</p> <p>Presently, administrative approval of CAT plan is yet to be accorded by GoJK to start CAT works. The Project has requested Soil and Water conservation Department GoJK to expedite accord of administrative approval for early implementation of the plan.</p>
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.	<p>The RR Plan of Pakal Dul HEP has been approved by GoJK vide Government Orders no. 12-DMRR&amp;R of 2017 dated 22.02.2017 and 11-DMRR&amp;R of 2019 dated 07.03.2019. The approved R&amp;R Plan is under implementation.</p> <p>The formulation, approval and implementation of R&amp;R plan comes under the purview of State/UT Government which has adopted a uniform approach in providing the R&amp;R benefits for the PAFs of different HE projects in J&amp;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&amp;K in formulation and approval of R&amp;R plan for Pakal Dul HE project.</p>

*M. S. Singh (Env)*



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&amp;R of 2017 dated 16.03.2017. Constitution of R&amp;R committee is awaited.</p> <p>Monitoring committee is to be constituted by Government under the Chairmanship of Commissioner R&amp;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&amp;R committee. The formal Government order in this regard is awaited. Moreover, Commissioner R&amp;R (D.C. Kishtwar) had been requested by the Project for constituting the said committee vide no CVPP/PDHEP/GM(I/C)/2021/2371 dated 20.12.2021.</p>															
iv	The commitment made during the public hearing should be fulfilled.	Being complied.															
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.	<p>Being complied.</p> <p>Details of Muck Generation and Disposal for the period from October 2021 to March 2022:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of Contractor</th> <th>Muck Generated (CUM)</th> <th>Muck Utilized (CUM)</th> <th>Muck Disposed (CUM)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>M/s Afcon-JAL Joint Venture (PH Works)</td> <td>47894.92</td> <td>54228.00</td> <td>-6333.08 cum of muck re-handled from dumping site for reuse.</td> </tr> <tr> <td>2</td> <td>M/s Jaypee Group (Dam Works)</td> <td>288598.00</td> <td>230878.4</td> <td>57719.6</td> </tr> </tbody> </table>	S. No.	Name of Contractor	Muck Generated (CUM)	Muck Utilized (CUM)	Muck Disposed (CUM)	1	M/s Afcon-JAL Joint Venture (PH Works)	47894.92	54228.00	-6333.08 cum of muck re-handled from dumping site for reuse.	2	M/s Jaypee Group (Dam Works)	288598.00	230878.4	57719.6
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		3.	M/s L&T (HRT-TBM Works)	107309.00	107309.00	Nil
		<b>Total</b>		<b>443801.92</b>	<b>392415.4</b>	<b>57719.6</b>
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 Marsudar 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 have been deposited with J&K Fisheries Department. The Fisheries Department has utilized/released an amount of Rs. 135.317 Lakhs for the works under the plan. The work is under execution.				
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 discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.  (b)State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.  (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.	Complied (Mitigation Plan has been prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.)  The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.  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. An amount of Rs. 3,82,75,884/- has been incurred for the same till 31.03.2022 by the Office of Wildlife Warden,Chenab Division,Kishtwar.				
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 FRL and a 50 m greenbelt should be created around the reservoir	Being complied. The tree cutting along the FRL is being done only in the area required for the project construction				

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	periphery.	works. The process for creation of greenbelt shall be initiated at the appropriate time.								
<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.	<p align="center">Being complied.</p> <p>Free fuel arrangements have been made by the respective contractors for their labour force engaged for Power House Works and Dam Works, at their own cost.</p> <p>Details of expenditure on free fuel provided by the major works contractors are as under:</p> <table border="1" data-bbox="709 785 1233 1234"> <thead> <tr> <th>Works Package / Name of contractor</th> <th>Expenditure under free fuel provisions for the period from October 2021 to March 2022 (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Power House Works Package (M/s Afcons-JAL Joint Venture)</td> <td align="right">10,20409/-</td> </tr> <tr> <td>Dam Works Package (M/s Jaiprakash Associates Ltd.)</td> <td align="right">7,11,360/-</td> </tr> <tr> <td>M/s L&amp;T Limited (HRT-TBM works)</td> <td align="right">3,00,763/-</td> </tr> </tbody> </table>	Works Package / Name of contractor	Expenditure under free fuel provisions for the period from October 2021 to March 2022 (Rs.)	Power House Works Package (M/s Afcons-JAL Joint Venture)	10,20409/-	Dam Works Package (M/s Jaiprakash Associates Ltd.)	7,11,360/-	M/s L&T Limited (HRT-TBM works)	3,00,763/-
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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 laborers.	<p align="center">Being complied.</p> <p>Free fuel arrangements for labourers have been made by the contractors.</p> <p>Adequate drinking water and sanitation facilities have been provided by the respective contractors at residential areas of their labour force.</p> <p>Details of medical facilities established by major works contractors for their labourers, at their own cost, are as under:</p> <p>1. <b>Dam Package (by M/s Jaiprakash Associates Limited):</b> One bed, one Oxygen cylinder, accessories of dispensary, storage for the medicines, stretchers, wheel chairs, one light vehicle and one Ambulance at Dam site is in operation and managed by one Doctor and four no. of Medical Assistants. Total 1959 no. of patients including locals</p>								

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		<p>have been treated in the period from October 2021 to March 2022 with total expenditure for this period amounts to Rs. 8,11,780/-</p> <p><b>2. Power House Package (by M/s Afcons - JAL Joint Venture):</b> Three no. of first aid centres, two fully equipped Ambulances at Power House Site of the Project is managed by the 1 doctor and 08 no. of first aiders. The necessary medicines are also made available to nearby local villagers. The total expenditure on medical facilities period from October 2021 to March 2022 amounting to Rs.22,07,556/- has been incurred.</p> <p><b>3. HRT-TBM Package (by M/s L&amp;T Limited)</b> one no. of first aid centre at Site is managed by 02 no. of first aiders. The necessary medicines are also made available to nearby local villagers. The total expenditure on medical facilities period from October 2021 to March 2022 amounting to Rs.5,57,780/- has been incurred.</p>
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	Being 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	Approval for Constitution of Multidisciplinary committee (MDC) for Pakal Dul HEP was accorded by MoEF&CC vide no: J-12011/51/2007-IA-I(Part) dated 10.07.2018 with amendments issued vide No. J-

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	oversee the effective implementation of the suggested safeguard measures.	12011/51/2007-IA-I(R) dated 02.05. 2019. & F. No.J-12011/51/2007-IA (R) Dated 11.03.2020
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Being complied. Six monthly Environment Clearance Compliance Reports are being timely submitted to the Ministry and its Regional Office, Chandigarh.
<b>Other Conditions mentioned in the EC Letter:</b>		
4.	Officials from Regional Office MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Shall be complied
5.	The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. and Government of J&K.  (The EC originally granted in 2008 in favour of NHPC was later transferred to CVPP in 2012)	Noted
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in the scope of the project. Shall be complied if required.
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	Complied.

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	concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	
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 <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> .	Complied.  The requisite advertisement was published in Dainik Jagran (Hindi) and Daily Uzma (Urdu) newspapers dated 07.03.2008.

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mgr/Env.*