



NEYVELI UTTAR PRADESH POWER LIMITED  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL MINE PROJECT,  
Shanta Bhavan, Behind SBI Bank, LIC Colony  
DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 09AAECN3221F1Z8  
E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.



Lr No. NUPPL/PSCB/GM/Compliance/2025/02/  
To,

Date: 04.02.2025

*afuu*  
*05-02-25*  
The Divisional Forest Officer,  
Dumka Forest Division,  
Dumka- 814101,  
Jharkhand, India.

|             |   |
|-------------|---|
| <b>Sub:</b> | Pachwara South Coal Block, M/s Neyveli Uttar Pradesh Power Limited - Submission of In Principal/Stage- I compliance.  |
| <b>Ref:</b> | 1. In Principle approval of Forest Clearance Stage -I. (Proposal No. FP/JH/MIN/59823/2020)<br>2. Letter from MoEF & CC, GoI; Dated : 17.12.2024<br>3. Stage - I Compliance; dated 09.01.2024<br>4. Letter from DFODumka, Lt No. - 106; dated 17.01.2025<br>5. Letter MoEF & CC; dated 17.01.2025. |

Dear Sir,

Vide reference 3 cited above, M/s NUPPL had submitted the In Principal/Stage - I Compliance for processing of FC Stage - II in favour of Pachwara South Coal Block.

Vide reference 4 cited above, ED NODAL, Ranchi raised queries against the point number II(a), II(c), VI and XIV of the Stage - I compliance report which has to be complied and to submit the completed Stage -I compliance for processing of the Forest Clearance Stage - II.

Vide reference 5 cited above, MoEF & CC, GoI has requested State Government to examine the representation of the User agency and to take necessary actions citing the circular dated 17.12.2024 (reference 2).

In this regard M/s NUPPL is submitting the completed **Stage - I Compliance report (9 sets)** to your office after complying the points number II(a), II(b), VI and XIV for further processing of Stage - II FC approval in favour of Pachwara South Coal Block.

We look forward for your kind consideration.

Thanking you.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

*29*  
General Manager/Project Head,  
PSCMP, NUPPL.

**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

*S*  
Sajwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Forest Conservation Division)**  
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**Indira Paryavaran Bhawan,**  
Jor Bag Road, Aliganj,  
New Delhi – 110003  
**Dated: As per E-sign**

To,

**The Principal Secretary (Forests),**  
Government of Jharkhand,  
Ranchi.

**Subject: Proposal for seeking prior approval of the Central Government under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 455.1108 ha of forest land for Pachwara South Coal Block project in favour of M/s Neyveli Uttar Pradesh Power Ltd. (NUPPL), District Dumka, Jharkhand State (Online No. FP/JH/MIN/59823/2020) –regarding.**

Madam/Sir,

I am directed to refer to the Government of Jharkhand's letter No. Van Bhumi-19/2022-3464 V.P. dated 29.11.2022 on the above subject seeking prior approval of the Central Government under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and to say that the proposal has been examined by the Advisory Committee constituted by the Central Government under Section-3 of the aforesaid Act.

After careful examination of the proposal of the State Government & on the basis of the recommendations of the Advisory Committee and with due approval of the competent authority, the Central Government hereby accords **"In-principle/Stage-I"** approval under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 455.1108 ha of forest land for Pachwara South Coal Block project in favour of M/s Neyveli Uttar Pradesh Power Ltd. (NUPPL), District Dumka, Jharkhand subject to fulfilment of the following conditions:

- i. Legal status of the diverted forest land shall remain unchanged;
- ii. **Compensatory Afforestation:**
  - a. *Details (i.e. KML file, SOI topo sheet, DGPS map, approved CA Scheme, site suitability certificate etc.) of non-forest land equal in extent to the forest land being proposed for diversion including the area for safety zone/green belt shall be submitted by the State Government along with the compliance report of the Stage-I approval.*
  - b. *The non-forest land to be identified shall be transferred and mutated in favour*

  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satwik, I.F.S.  
Divisional Forest Officer  
Dumka Forest Division, D.D.



*of the State Forest Department and shall also be notified as RF/PF under IFA, 1927 or any state /local act before granting the Stage-II approval.*

- c. The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited in advance with the Forest Department by the user agency. The CA will be maintained for 10 years. The scheme may include afforestation of indigenous species with appropriate provision for anticipated cost increase for works scheduled for subsequent years;

**iii. Net Present Value:**

- a. The User Agency shall transfer the funds towards the cost of Net Present Value (NPV) of the forest land being diverted under this proposal in accordance with the MoEF&CC's guidelines dated 6.01.2022 read with guidelines dated 19.01.2022;
- b. At the time of payment of the Net Present Value (NPV) at the present rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;
- iv. *Trees should be felled in a phased manner and when become absolutely necessary and under strict supervision of State Forest Department and wherever feasible suitable species should be transplanted.*
- v. *The State Govt. shall prepare and implement Wildlife Conservation plan duly approved by CWLW, Jharkhand to mitigate the impact of mining on elephant and other wildlife in and around the proposed area at project cost.*
- vi. *As the Bansloi river is flowing in the Northern boundary of the proposed mining lease, no excavated material and mine waste water shall be discharged into the river. Embankment all along the river bank should be constructed to ensure that the no mining waste water is drained to the river. Catchment area treatment plan for river Bansloi shall be prepared and implemented at project cost.*
- vii. *Safety Zone of 100 meter along the river bank shall be maintained and inside the safety zone, plantation should be done at the project cost.*
- viii. *A site specific wildlife management plan of a radius of 10 km from the proposed lease area at the project cost will be prepared. Besides this, migration path for elephant's passage if present beyond 10 km then such migration route shall be developed with plantation of suitable species at the project cost.*
- ix. *User agency shall prepare a Digital Elevation Model of 10 Km radius using LIDAR technology before commencement of mining operation and shall be*

**GOTTE RAMESH**  
General Manager/ Project Head  
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AMPL, Dumka (Jharkhand)

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Divisional Forest Officer,  
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repeated on 3rd, 5th, 10th, 15th, 20th, 25th and 30th year in consultation with the PCCF. On the basis of DEM user agency shall prepare a CAT and SMC plan of 10 km radius including Chatua nala and other nearby nalas. These plans will be approved by the PCCF (HoFF) and will be implemented by the Forest Department at the project cost. A team, to be finalized by the PCCF, comprising of officials of user agency, Forest Department subject matter specialist shall be constituted to study and monitor the soil erosion, water conservation, ecological restoration activities during the implementation of the project.

- x. As recommended by the State, the Water security plan prepared by the group of experts shall be adhered to.
- xi. The State Government shall upload the KML files of the area under diversion and the accepted area for raising compensatory afforestation in the e-Green watch portal of FSI, before handing over forest land to the user agency;
- xii. All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through **e-portal** (<https://parivesh.nic.in/>); Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance;
- xiii. The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent Reclamation Plan as per the approved Mining Plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.
- xiv. The user agency shall prepare a schedule for surrender of the mined out and reclaimed forest land in accordance with existing mining plan and submit the same along with an undertaking to surrender the mined out and reclaimed forest land as per such schedule to the MoEF&CC before grant of 'Final' approval under the Adhinyam for diversion of the said forest land;
- xv. The rehabilitated forest area after closure of mining operations shall be handed over to the State Forest Department for sustainable forest management in the future;
- xvi. Safety Zone Management: Following activities, at project cost, shall be undertaken by the user agency for the management of safety zone as per relevant guidelines issued by the Ministry's guidelines:
  - a. User agency shall ensure demarcation of safety zone (7.5 meter strip all

  
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NUPPL, Dumka (Jharkhand)

  
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Dumka Forest Division, Dumka



- along the inner boundary of the mining lease area), and its fencing, protection and regeneration by erecting adequate number of 6 feet high RCC boundary pillars inscribed with DGPS coordinates with barbed wire fencing and deploying adequate number of watchers under the supervision of the State Forest Department;
- b. Boundary of the safety zone of the mining lease, adjacent to habitation/roads, should be properly fenced by the user agency;
  - c. Safety zone shall be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration shall be taken up in this area by the user agency at project cost under the supervision of the State Forest Department; and
  - d. The State Government and the user agency shall ensure that safety zone is maintained as per the prescribed norms;
- xvii. Following activities, as per approved plan / schemes, shall be undertaken in the lease area by the User Agency under the supervision of the State Forest Department:
- a. Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of 'Final' approval in accordance with the approved Plan/Scheme in consultation with the State Forest Department;
  - b. Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved Plan/scheme;
  - c. Construction of check dams, retention / toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved Plan/Scheme;
  - d. Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28°; and
  - e. No damage shall be caused to the top-soil and the user agency will follow the top soil management plan.
- xviii. The validity of approval granted under the Adhiniyam shall be for a period co-terminus with the validity of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended from time to time or Rules framed there under, or for such period as may be specified by the Central Government;
- xix. The User Agency either himself or through the State Forest Department shall undertake gap planting and soil and moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located within the periphery of 100 m from outer perimeter of the mining lease as per approved plan for plantation and SMC activities submitted along with compliance of 'in-principle' approval;
- xx. The User Agency shall regularly undertake desilting of village tanks and other water bodies, located within five km from the mine lease boundary, as per approved plan, to mitigate the impact of project on such tanks/water bodies;

  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
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Divisional Forest Officer,  
Forest Division, Dumka

- xxi. The User Agency shall comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which may have been disturbed due to mining to restore them to a condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner;
- xxii. Adequate care shall be taken to check any rolling of overburden/dumps beyond the designated area and to check soil erosion caused due to mining activities;
- xxiii. The user agency shall undertake de-silting of the village tanks and other water bodies located within five km from the mine lease boundary so as to mitigate the impact of siltation of such tanks/water bodies, whenever required;
- xxiv. The User agency will undertake comprehensive soil conservation measures at the project cost in consultation with the State Forest Department. A scheme of the same shall be submitted to the Regional Office along with the 'in-principle' approval; and
- xxv. Under no circumstances, approval granted for the use of forest land for underground mining, shall subsequently be converted to opencast mining operations.
- xxvi. The R&R Plan shall be implemented as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones;
- xxvii. The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled;
- xxviii. The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;
- xxix. The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;
- xxx. No labour camp shall be established on the forest land and the User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;
- xxxi. The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates; The layout plan of the mining plan/ proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal;

  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
WUPPL, Dumka (Jharkhand)

  
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Divisional Forest Officer,  
Dumka Forest Division, Dumka



- xxxii. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;
- xxxiii. No damage to the flora and fauna of the adjoining area shall be caused;
- xxxiv. The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project;
- xxxv. The User Agency shall submit the annual self -compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year regularly;
- xxxvi. Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife shall be carried with by the State Government and user agency; and
- xxxvii. Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and action would be taken as prescribed in para 1.16 of Chapter 1 of the Consolidated Guidelines and Clarifications on Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 as issued by this Ministry's letter dated 29.12.2023;
- xxxviii. The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).

After receipt of compliance report on fulfillment of the conditions mentioned above, the proposal shall be considered for final approval under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. Transfer of forest land shall not be affected till final approval is granted by the Central Government in this regard.

Signed by

Dheeraj Mittal

Yours sincerely,

Date: 18-09-2024 14:10:45

(Dr. Dheeraj Mittal)

**Assistant Inspector General of Forests**

**Copy to:**

1. The PCCF (HoFF), Department of Forest, Government of Jharkhand, Ranchi;
2. The Dy. DGF (Central), Regional Office, MoEF&CC, Ranchi;
3. The Nodal Officer, Department of Forest, Government of Jharkhand, Ranchi;
4. User Agency;
5. Monitoring Cell, FC Division, MoEF&CC, New Delhi for uploading on PARIVESH portal.

  
**GOPINATH RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka



**कार्यालय : प्रधान मुख्य वन संरक्षक—सह—कार्यकारी निदेशक,  
बंजर भूमि विकास बोर्ड, झारखंड, राँची।**

वन भवन, बोरण्का, राँची, झारखंड, पिन-834002, Email: pccf-ednodak@gov.in

पत्रांक :-

दिनांक :-

सेवा में,

क्षेत्रीय मुख्य वन संरक्षक,  
दुमका।

विषय :-

मेसर्स नेयवेली उत्तर प्रदेश पावर लिमिटेड का पचवाड़ा साउथ कोल ब्लॉक परियोजना हेतु दुमका वन प्रमण्डल अन्तर्गत 455.1108 हे० अधिसूचित वनभूमि अपयोजन प्रस्ताव के संबंध में।

प्रसंग :-

1. भारत सरकार, वन, पर्यावरण एवं जलवायु परिवर्तन मंत्रालय, इन्दिरा पर्यावरण भवन, नई दिल्ली का पत्र सं०-शून्य दिनांक-18.09.2024
2. क्षेत्रीय मुख्य वन संरक्षक, संथाल परगना, दुमका का पत्रांक 85 दिनांक 11.01.2025

महाशय,

उपर्युक्त विषयक संदर्भ में सूचित करना है कि भारत सरकार, वन, पर्यावरण एवं जलवायु परिवर्तन मंत्रालय, इन्दिरा पर्यावरण भवन, नई दिल्ली का पत्र सं०-शून्य दिनांक-18.09.2024 द्वारा Pachwara South Coal Block project हेतु दुमका वन प्रमण्डल अन्तर्गत 455.1108 हे० अधिसूचित वनभूमि अपयोजन प्रस्ताव में कुल-38 शर्तों के साथ Stage-I की स्वीकृति प्रदान की गयी है। उक्त Stage-I की स्वीकृति में लगाये गये शर्तों का आपके कार्यालय पत्रांक 85 दिनांक 11.01.2025 द्वारा अनुपालन प्रतिवेदन इस कार्यालय को समर्पित किया गया है, जिसके शर्त संख्या-II(a), II(c), VI एवं XIV का अनुपालन अपूर्ण है।

अतः विषयगत परियोजना में स्टेज-1 का प्राप्त अनुपालन प्रतिवेदन छः प्रतियों में अनुलग्नकों सहित लौटाते हुये अनुरोध है कि स्टेज-1 का पूर्ण अनुपालन प्रतिवेदन अभिलेख सहित यथाशीघ्र इस कार्यालय को उपलब्ध कराने की कृपा की जाय।

अनु०:-यथोक्त।

विश्वासभाजन,

ह०/-

प्रधान मुख्य वन संरक्षक—सह—कार्यकारी निदेशक,  
बंजर भूमि विकास बोर्ड, झारखंड, राँची।

आपांक :- 46

दिनांक :- 13.1.2025

प्रतिलिपि :- वन संरक्षक, प्रादेशिक अंचल, दुमका/वन प्रमण्डल पदाधिकारी, दुमका वन प्रमण्डल, दुमका/महाप्रबंधक, मेसर्स नेयवेली उत्तर प्रदेश पावर लिमिटेड पचवाड़ा साउथ कोल परियोजना, दुमका को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।



20/1  
GOTTE RAMESH  
General Manager Project Head  
Pachwara South Coal Block  
Dumka Forest Division

13/1/25  
प्रधान मुख्य वन संरक्षक—सह—कार्यकारी निदेशक,  
बंजर भूमि विकास बोर्ड, झारखंड, राँची।

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka





कार्यालय: वन प्रमंडल पदाधिकारी,  
दुमका वन प्रमंडल, दुमका।



Court Compound, Dumka-814101

E-mail- dfo-dumka@gov.in/dfo-dumka@gmail.com

डा. मेल जापांक- 106 दिनांक- 17-7-25

प्रतिलिपि- General Manager/Project Head, Pachwara South Coal Mine Project, Neyveli Uttar Pradesh Power Ltd. Shanta Bhawan, LIC Colony, Behind SBI, Dumka-814101, Jharkhand. को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। वांछित निराकरण प्रतिवेदन 09 (नौ) प्रतियां में शीघ्र उपलब्ध कराना सुनिश्चित किया जाय।

वन प्रमंडल पदाधिकारी,

दुमका वन प्रमंडल, दुमका।

17/07/25

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Forest Conservation Division)**  
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**Indira Paryavaran Bhawan,**  
Jor Bag Road, Aligarj,  
New Delhi – 110003  
**Dated: As per E-sign**

To,

**The Principal Secretary (Forests),**  
Government of Jharkhand,  
Ranchi.

**Subject: Proposal for seeking prior approval of the Central Government under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of 455.1108 ha of forest land for Pachwara South Coal Block project in favour of M/s Neyveli Uttar Pradesh Power Ltd. (NUPPL), District Dumka, Jharkhand State (Online No. FP/JH/MIN/59823/2020) –regarding.**

Madam/Sir,

I am directed to refer to the representation dated 14.01.2025 received from the User agency wherein it has been requested for amendment of the condition no. (ii) (a) and ii (b) of Stage-I approval dated 18.09.2024 (**Copy enclosed**) in reference to Ministry guideline dated 17.12.2024.

The State Govt is requested to examine the said representation of user agency and take necessary action. In this regard the guideline dated 17.12.2024 (**Copy enclosed**) may also be perused.

Signed by  
Dheeraj Mittal

Yours sincerely,

**Encl. As Above**

Date: 17-01-2025 18:16:25

(Dr. Dheeraj Mittal)

**Assistant Inspector General of Forests**

**Copy to:**

1. The PCCF (HoFF), Department of Forest, Government of Jharkhand, Ranchi;
2. The Dy. DGF (Central), Regional Office, MoEF&CC, Ranchi;
3. The Nodal Officer, Department of Forest, Government of Jharkhand, Ranchi;
4. User Agency;
5. Monitoring Cell, FC Division, MoEF & CC, New Delhi for uploading on PARIVESH portal.

  
**G. RAMESH**  
General Manager, Forest Division,  
Pachwara South Coal Block  
NUPPL, Dumka

  
**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, C.





NEYVELI UTTAR PRADESH POWER LIMITED  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL MINE PROJECT,  
Shanta Bhavan, Behind SBI Bank, LIC Colony  
DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 09AAECN3221F1Z8  
E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lr No. NUPPL/PSCB/GM/CA/2025/01/09

Date: 14.01.2025

To,

Director General of Forests (DG),  
MoEF & CC,  
Government of India,  
Indira Paryavaran Bhavan,  
Jor Bagh Road, New Delhi.

|      |  |
|------|--|
| Sub: | Pachwara South Coal Block, M/s Neyveli Uttar Pradesh Power Limited - Request for amendment in Stage -I FC condition and implementation of Compensatory Afforestation schemes of an area of 910.23 Ha in double degraded forest land of Forest department in place of Non-Forest land as mentioned in point number ii (a) & ii (b) of specific conditions of In Principal/Stage-I approval. |
| Ref: | 1. Allotment order 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016.<br>2. In Principle approval of Forest Clearance Stage -I. (Proposal No. FP/JH/MIN/59823/2020)<br>3. Letter from MoEF & CC, GoI; Dated : 17.12.2024  |

Dear Sir,

1. Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from MoC, GOI. [Ref-1]
2. The total project area is conceptualized same with the allotted coal block area and which comes to about 714.8553 Ha. As per land records, about 455.1108 Ha falls under Government forest category and remaining 259.7445 Ha. falls under non forest category. Hence, Forest Diversion for 455.1108 Ha of forest land is required as per the FC Act' 1980.
3. A non - Linear Forest Application for diversion of 455.1108 Ha of Forest land for Pachwara South Coal Block was applied on 20.11.2020 through the PARIVESH portal (Proposal No. FP/JH/MIN/59823/2020). As per FC Act 1980, Central PSU, State PSU and other Government firm are permitted for Compensatory Afforestation in the double degraded forest land, dully allotted through suitability of the forest land by Forest department of the concerned region.

DA (H)

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12-1-2024

22  
GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

AIG(CDM)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



4. On 15.04.2022, Compensatory Afforestation scheme of 910.23 Ha along with complete set of documents was submitted to DFO, Dumka for further processing. The FC proposal after getting scrutinized at various Forest departmental levels was finally submitted to Nodal Ranchi on 13.05.2022. The proposal subsequently got approval by State and forwarded to MoEF & CC, GoI.
5. The forest diversion proposal of Pachwara South Coal Block was accepted by the MoEF & CC and placed before the Forest Appraisal Committee member on 27.08.2024. On 18.09.2024, Vide letter no.- **8-37/2022-FC; dated 18.09.2024** cited in reference (2) above, the Central Government hereby accorded the "**In-principle/Stage-I**" approval [Ref 2] under section 2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for diversion of **455.1108 ha** of forest land for **Pachwara South Coal Block project in favour of M/s Neyveli Uttar Pradesh Power Ltd. (NUPPL)**, District Dumka, Jharkhand with specific conditions which has to be furnished as Stage - I compliance for getting Stage - II Forest approval in favour of Pachwara South Coal Block.
6. The specific condition stipulated in the point ii(a) and ii(b) In-Principal/ Stage - I approval regarding CA land states that, Pachwara South Coal Block of M/s NUPPL has to provide
  - "i (a) Details (i.e. KML file, SOI topo sheet, DGPS map, approved CA Scheme, site suitability certificate etc.) of **non-forest land** equal in extent to the forest land being proposed for diversion including the area for safety zone/green belt shall be submitted by the State Government along with the compliance report of the Stage-I approval".
  - ii (b) The non-forest land to be identified shall be transferred and mutated in favour of the State Forest Department and shall also be notified as RF/PF under IFA, 1927 or any state /local act before granting the Stage-II approval."
7. Pertaining to the conditions mentioned in para 6 above, M/s NUPPL would like to draw your attention towards the MoEF & CC circular dated 17.12.2024 citing the provisions related to raising of compensatory afforestation, as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024, have been reviewed by the Ministry and after due deliberations, the Central Government, in accordance with the provisions of section 3C of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 hereby issues the clarifications.  
The point number v (a) of circular states "With regards to the applicability of the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024 in respect of proposals of the Central Agencies/PSUs and captive coal blocks of the State PSUs which were granted 'in-principle' approval stipulating CA over non-forest land, the following clarification is given in this regard:

20  
GOTI RAMESH  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

8  
Satwik, I.F.O  
Divisional Forest Officer  
Dumka Forest Division, Dumka



a) Proposals, which were submitted by the States/UTs before notification of Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL. [Ref - 3].

8. Currently, Phase 1 of the Pachwara South Coal Block development is nearing completion. The Ministry of Environment, Forest, and Climate Change (MoEF&CC), **GRANTED** Environmental Clearance in favour of Pachwara South Coal Block on 23.09.2024. We wish to bring to your attention that the Pachwara South Coal Block project has reached an advanced stage towards commencement of mining activities, albeit with delays in its timeline. The project is on fast track set forth in achieving the production of coal by March, 2025. Further delays may impact the commissioning schedule of the **Ghatampur Thermal Power Project, Kanpur**, which is dependent on Pachwara South Coal Block for fossil fuel.
9. Therefore, we respectfully request for an amendment in the point number ii(a) and ii(b) of In Principal/Stage-I approval of Pachwara South Coal Block for requirement of 455.1108 Ha of NFL, referring the clause mentioned in para 7. Furthermore, M/s NUPPL seeks permission to use double degraded forest land for Compensatory Afforestation citing the MoEF & CC circular dated 17.12.2024, thereby avoiding any additional delay in project commissioning.

Thank for your attention in this matter. We look forward for your kind consideration.

Thanking you.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,  
PSCMP, NUPPL.

**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

Government of India  
Ministry of Environment, Forest and Climate Change  
(Forest Conservation Division)

Indira Paryavaran Bhawan,  
Aliganj, Jor Bagh Road,  
New Delhi: 110003  
Dated: December, 2024

To

The Addl. Chief Secretaries of Forests/Principal Secretary (Forests),  
All States Governments and Union territory Administrations

**Sub: Streamlining of the approval process with regards to compensatory afforestation as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024 – reg.**

**Madam/Sir,**

I am directed to refer to the above subject and to inform that based on the references received from the Ministry of Mines, and Ministry of Coal, the provisions related to raising of compensatory afforestation, as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024, have been reviewed by the Ministry and after due deliberations, the Central Government, in accordance with the provisions of section 3C of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 hereby issues the following clarifications:

- i. Provisions of Rule 14(1) of the Van (Sanrakshan Evam Samvardhan) Rules, 2023, provides that the non-forest land identified for raising Compensatory Afforestation (CA) is to be notified as Protected Forests before final approval (Stage-II) approval is granted by the Central Government. However, in cases where non-forest land identified for CA has been transferred and mutated in favour of the State Forest Department (SFD), the Central Government may accord final approval keeping in view the fact that provisions of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 become applicable on such lands being entered as forest in government record/record of rights.
- ii. In such cases, referred in para (i) above, the non-forest land forest land proposed for CA, shall be notified as Protected Forest under section 29 of the Indian Forest Act, 1927 or local forest Act before handing over of forest land to the User Agency by the State Government. The Nodal Officer, after notification of such non-forest lands, shall upload a copy of said notification on the PARIVESH portal.
- iii. For the purpose of rule 13(4)(a) of the States or Union territory Administrations, having forest area more than 33% of their total geographical area, concerned State Government/UT Administration may authorise a suitable officer to issue certificate of non-availability of the suitable non-forest land for raising CA.
- iv. As per the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, projects of Central Government entities/CPSU and captive coal blocks of the State PSUs are eligible for raising CA over degraded forest land which will be double in extent of the forest land being diverted. Accordingly, the State Government/UT shall not insist for providing non-forest land as CA unless in cases wherein the Central Government

  
**GOTTE RAMESH**  
General Manager, Project Head  
Reforestation South Central Circle  
NREGS, Dumka, Jharkhand

  
**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka



Agencies/CPSUs or State Government PSUs with captive coal blocks are forthcoming to provide non-forest land available with them as CA or the State Government/UT Administration is willing to provide non-forest land on such terms and condition which is agreed by the Central Government Agencies/CPSUs or State Government PSUs in case of captive coal blocks.

v. With regards to the applicability of the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024 in respect of proposals of the Central Agencies/PSUs and captive coal blocks of the State PSUs which were granted 'in-principle' approval stipulating CA over non-forest land, the following clarification is given in this regard:

- a. Proposals, which were submitted by the States/UTs before notification of Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL.
- b. Proposals, which were submitted by the States/UTs along with CA proposal over non-forest land and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), can also be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL provided the non-forest land proposed for CA is not transferred and mutated in favour of the State Forest Department. In such cases, the Central Government or its Regional Office, based on the request of the State/UT Government or user agency, shall amend the condition of in-principle approval to raise CA over DFL on a case to case basis and subsequently the User Agency shall submit the compliance of in-principle for the obtaining the 'final' approval.

In view of the above, the State Government and Union territory Administrations are requested to take into consideration the guidelines mentioned hereinabove while considering the proposals submitted under section 2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

This issues with the approval of the competent authority.

Signed by

Charan Jeet Singh

Date: 17-12-2024 13:56:41

Yours faithfully,

(Charan Jeet Singh)  
Scientist 'E'

  
**G. RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

1. Director, PMO, South Block, New Delhi
2. Secretary, Ministry of Mines /Coal /Steel/ Power/ Railways/ MoRT&H/ Defence/MHA
3. Secretary, Ministry of Defence, Government of India
4. Principal Chief Conservator of Forests & HoFF, All States Governments and Union territory Administrations
5. Dy Director General of Forests (Central) All Regional Offices of the MoEF&CC

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

6. Nodal Officers, dealing with the matters related to the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, All States Governments and Union territory Administrations
7. Head, NIC, MoEFCC for aligning the PARIVESH 2.0 as per above

  
**GOTTE RAMESH**  
General Manager, Forest Dept.  
Pachmarhi Sub. Div. (Forest)  
NUPPL, Durgam Chaurahat

  
**Sarvik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka





NEYVELI UTTAR PRADESH POWER LIMITED  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL MINE PROJECT,  
Shanta Bhavan, Behind SBI Bank, LIC Colony

DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 09AAECN3221F1Z8

E-Mail: [pachwara\\_south@nlcindia.in](mailto:pachwara_south@nlcindia.in), TEL: 06434-238147.



Lr No. NUPPL/PSCMP/ GM/FC/2025/02/

Date: 04.02.2025


To,

The Divisional Forest Officer,  
Dumka Forest Division,  
Dumka- 814101,  
Jharkhand, India.

|             |  |
|-------------|--|
| <b>Sub:</b> | <b>Pachwara South Coal Block- Submission of FC Stage – I compliances.</b>  |
| <b>Ref:</b> | Proposal No. FP/JH/MIN/59823/2020 Dated 20/11/2020 for seeking prior approval of Central Government under Section 2 of the Forest (Conservation) Act, 1980 for diversion of forest area. |

Dear Sir,

Vide letter no 8-37/2022-FC dated 18.09.2024 from MoEF & CC, we are hereby submitting the point wise compliance as under:



| Sl. No | FC Stage – I Conditions  | Compliances  |
|--------|--|--|
| i.     | Legal status of the diverted forest land shall remain unchanged  | Legal status of the diverted forest land shall remain unchanged<br>Undertaking submitted. Annexure – I   |
| ii.    | Compensatory Afforestation   |  |
| a.     | Details (i.e. KML file, SOI topo sheet, DGPS map, approved CA Scheme, site suitability certificate etc.) of non-forest land equal in extant to the forest land being proposed for diversion including the area for safety zone/green belt shall be submitted by the State Government along with the compliance report of the Stage-I approval.<br><br><br>GOUTI RAMESH<br>General Manager Project Head<br>Pachwara South Coal Block<br>NUPPL, Dumka (Jharkhand) | As per the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL.<br>M/s NUPPL has paid Rs 112,26,81,423/- against Compensatory Afforestation in the CAMPA account of Forest Division.<br><b>UTR No – SBINR52025020174046500</b><br>In this regard, KML file, SOI topo sheet, DGPS map. |

Satvik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
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**PACHWARA SOUTH COAL MINE PROJECT,**  
Shanta Bhavan, Behind SBI Bank, LIC Colony  
DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569      GSTIN: 09AAECN3221F1Z8  
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|    |   | approved CA Scheme, site suitability certificate for Double degraded Forest Land is uploaded in PARIVESH. Annexure – II A  |
| b. | <p>The non-forest land to be identified shall be transferred and mutated in favour of the State Forest Department and shall also be notified as RF/PF under IFA, 1927 or any state /local act before granting the Stage-II approval.</p> <p><br/><b>GOPINATH RAMESH</b><br/>General Manager Project Head<br/>Pachwara South Coal Block<br/>NUPPL, Dumka (Jharkhand)</p> <p><br/><b>Satvik, I.F.S.</b><br/>Divisional Forest Officer,<br/>Dumka Forest Division, Dumka</p> | <p>As per the MoEF &amp; CC circular dated 17.12.2024 the provisions related to raising of compensatory afforestation, as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024, have been reviewed by the Ministry and after due deliberations, the Central Government, in accordance with the provisions of section 3C of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 hereby issues the clarifications.</p> <p>The point number v (a) of circular states <i>"With regards to the applicability of the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024 in respect of proposals of the Central Agencies/PSUs and captive coal blocks of the State PSUs which were granted 'in-principle' approval stipulating CA over non-forest land, the following clarification is given in this regard:</i></p> <p>a) <i>Proposals, which were submitted by the States/UTs before notification of Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL. Annexure – II B</i></p> |





**NEYVELI UTTAR PRADESH POWER LIMITED**  
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**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL MINE PROJECT,**  
**Shanta Bhavan, Behind SBI Bank, LIC Colony**  
**DUMKA- 814 101, JHARKHAND, INDIA,**  
CIN: U40300UP2012GOI053569      GSTIN: 09AAECN3221F1Z8  
E-Mail: [pachwara\\_south@nlcindia.in](mailto:pachwara_south@nlcindia.in), TEL: 06434-236147



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| c.   | The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited in advance with the Forest Department by the user agency. The CA will be maintained for 10 years. The scheme may include afforestation of indigenous species with appropriate provision for anticipated cost increase for works scheduled for subsequent years; | As per the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL.<br>M/s NUPPL has paid Rs 112,26,81,423/- against Compensatory Afforestation in the CAMPA account of Forest Division.<br><b>UTR No -SBINR52025020174046500</b><br>Annexure- <u>III</u> |
| iii. | Net Present Value  |  |
| a.   | The User Agency shall transfer the funds towards the cost of Net Present Value (NPV) of the forest land being diverted under this proposal in accordance with the MoEF&CC's guidelines dated 6.01.2022 read with guidelines dated 19.01.2022;<br><br><br><b>GOPIN RAMESH</b><br>General Manager Project Head<br>Pachwara South Coal Block<br>NUPPL, Dumka (Jharkhand)   | As per the demand raised by the Divisional Forest Officer, Dumka vide his letter dated 08.10.2024, the user agency has deposited an amount of Rs. 61,76,35,418/- towards Net Present Value (NPV) over ha. of forest land through RTGS (UTR No SBINR52024122169631364) dated 21.12.2024 in State CAMPA fund. Copy of the RTGS slips is enclosed as Annexure- <u>IV</u>  |
| b.   | At the time of payment of the Net Present Value (NPV) at the present rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>V</u><br><br><br><b>Satwik, I.F.S.</b><br>Divisional Forest Officer<br>Dumka Forest Division, Dumka  |
| iv.  | Trees should be felled in a phased   | The user agency will abide by the condition. An  |

**NEYVELI UTTAR PRADESH POWER LIMITED**  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL MINE PROJECT,  
Shanta Bhavan, Behind SBI Bank, LIC Colony  
DUMKA- 814 101, JHARKHAND, INDIA,**

**CIN: U40300UP2012GOI053569**

**GSTIN: 09AAECN3221F1Z8**

**E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.**



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|       | necessary and under strict supervision of State Forest Department and wherever feasible suitable species should be transplanted.   | undertaking to this effect is enclosed as Annexure- <u>VI</u>   |
| v.    | The State Govt. shall prepare and implement Wildlife Conservation plan duly approved by CWLW, Jharkhand to mitigate the impact of mining on elephant and other wildlife in and around the proposed area at project cost.   | Wildlife Conservation Plan is under preparation, once it is approved by Competent Authority, accordingly payment will be done by M/s NUPPL.<br>Annexure - <u>VII</u>  |
| vi.   | As the Bansloi river is flowing in the Northern boundary of the proposed mining lease, no excavated material and mine waste water shall be discharged into the river. Embankment all along the river bank should be constructed to ensure that the no mining waste water is drained to the river. Catchment area treatment plan for river Bansloi shall be prepared and implemented at project cost. | User agency undertakes that no excavated material and mine waste water shall be discharged into the river. Embankment all along the river bank should be constructed to ensure that the no mining waste water is drained to the river. Annexure - <u>VIII</u> A<br>Catchment Area Treatment Plan (CAT) is under preparation, once approved by Competent Authority, accordingly payment will be done by M/s NUPPL. The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>VIII</u> B                           |
| vii.  | Safety Zone of 100 meter along the river bank shall be maintained and inside the safety zone, plantation should be done at the project cost.   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>IX</u>   |
| viii. | A site specific wildlife management plan of a radius of 10 km from the proposed lease area at the project cost will be prepared. Besides this, migration path for elephant's passage if present beyond 10 km then such migration route shall be developed with plantation of suitable species at the project cost.   | As per the MoEF & CC, GoI 07.06.2022 Circular dated User Agency can make an upfront payment of 2% of the project cost i.e (Rs. 44.858 crore) towards the cost of implementation of Wildlife Management for submitting the compliance of in-principal approval.<br>The User Agency has deposited an amount of Rs. 44.858 crores towards Wildlife Management plan through RTGS<br>(UTRNo-SBINR52025010971616787)<br>dated 09.01.2025 in State CAMPA fund. Copy of the payment details is placed as Annexure-<br><br>M/s NUPPL is ready to pay deficit amount if |

Satwik, I.F.S.  
General Manager Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Satwik, I.F.S.**  
**Divisional Forest Officer,**  
**Dumka Forest Division, Dumka**



**NEYVELI UTTAR PRADESH POWER LIMITED**  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL MINE PROJECT,**

Shanta Bhavan, Behind SBI Bank, LIC Colony

DUMKA- 814 101, JHARKHAND, INDIA,

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|     |  | <p>any, from the money already realized to the tune of 2% of project cost for preparation of site specific wildlife management plan after approval by Competent Authority.</p> <p>Further, M/s NUPPL undertakes to pay the cost of other similar plans which are under preparation. Once the plans are approved by Competent Authority, payment for the cost of implementation will be done accordingly.</p> <p>[Annexure- <u>X</u>]</p>   |
| ix. | <p>User agency shall prepare a Digital Elevation Model of 10 Km radius using LIDAR technology before commencement of mining operation and shall be repeated on 3rd, 5th, 10th, 15th, 20th, 25th and 30th year in consultation with the PCCF. On the basis of DEM user agency shall prepare a CAT and SMC plan of 10 km radius including Chatua nala and other nearby nalas. These plans will be approved by the PCCF (HoFF) and will be implemented by the Forest Department at the project cost. A team, to be finalized by the PCCF, comprising of officials of user agency, Forest Department subject matter specialist shall be constituted to study and monitor the soil erosion, water conservation, ecological restoration activities during the implementation of the project.</p> | <p>Catchment Area Treatment Plan and Soil Moisture Conservation Plan are under preparation, once it is approved by competent authority cost of implementation will be paid by M/s NUPPL.</p> <p>A team will be finalized by PCCF comprising of officials of user agency, Forest Department and a subject matter specialist shall be constituted to study and monitor the soil erosion, water conservation, ecological restoration activities during the implementation of the project.</p> <p>The user agency will abide by the condition. And ready to pay additional amount after the approval of plans by competent authority.</p> <p>An undertaking is enclosed as Annexure-12 <u>XI</u></p> |
| x.  | <p>As recommended by the State, the Water security plan prepared by the group of experts shall be adhered to,</p>  | <p>The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XII</u></p>  |
| xi. | <p>The State Government shall upload the KML files of the area under diversion and the accepted area for raising compensatory afforestation in the e-Green watch portal of</p>   | <p>The condition will be complied by State Forest Department.</p> <p>Annexure-14</p>   |

**29**  
**GOUTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
Dumka (Jharkhand)

**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



NEYVELI UTTAR PRADESH POWER LIMITED  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL MINE PROJECT,  
Shanta Bhavan, Behind SBI Bank, LIC Colony  
DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 09AAECN3221F1Z8  
E-Mail: pachwara.south@nlicindia.in, TEL: 06434-236147.



|       | user agency;   |  |
|-------|--|--|
| xii.  | All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through e-portal ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ); Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance;  | <p>The user agency will abide by the condition. Following payments have already been deposited in CAMPA account:-</p> <ol style="list-style-type: none"><li>1. Payment of Rs. 61,76,35,418/- is done against the NPV for 455.1108 Ha of forest land.</li><li>2. Payment of upfront amount Rs. 44,85,80,000/- (2% of project cost) is done against the Wildlife Management Plan.</li><li>3. Payment of upfront amount Rs. 11,21,45,000/- (0.5% of project cost) is done against the Soil Moisture Conservation Plan.</li></ol> <p>All other plans mentioned in In Principal Stage – I condition are under preparation, once it is approved by Competent Authority, accordingly payment will be done by M/s NUPPL in CAMPA account.</p> <p>Annexure- <u>XIII</u></p> |
| xiii. | The User Agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent Reclamation Plan as per the approved Mining Plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the | <p>The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XIV</u></p>  |

GOTI RAMESH  
eral Manager/Project Head  
achwara South Coal Block  
Dumka (Jharkhand)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka





**NEYVELI UTTAR PRADESH POWER LIMITED**  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL MINE PROJECT,**  
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|      |  |  |
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|      | Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.   |  |
| xiv. | The user agency shall prepare a schedule for surrender of the mined out and reclaimed forest land in accordance with existing mining plan and submit the same along with an undertaking to surrender the mined out and reclaimed forest land as per such schedule to the MoEF&CC before grant of 'Final' approval under the Adhiniyam for diversion of the said forest land;                       | A schedule for surrender of the mined out and reclaimed forest land in accordance with existing mining plan is prepared and submitted. Annexure -<br>Undertaking to surrender the mined out and reclaimed forest land is submitted as Annexure - <u>XV</u> |
| xv.  | The rehabilitated forest area after closure of mining operations shall be handed over to the State Forest Department for sustainable forest management in the future;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XVI</u>   |
| xvi  | Safety Zone Management: Following activities, at project cost, shall be undertaken by the user agency for the management of safety zone as per relevant guidelines issued by the Ministry's guidelines:  |  |
| a.   | User agency shall ensure demarcation of safety zone (7.5 meter strip all along the inner boundary of the mining lease area), and its fencing, protection and regeneration by erecting adequate number of 6 feet high RCC boundary pillars inscribed with DGPS coordinates with barbed wire fencing and deploying adequate number of watchers under the supervision of the State Forest Department; | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XVII</u>  |
| b.   | Boundary of the safety zone of the mining lease, adjacent to habitation/roads, should be properly fenced by the user agency;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XVIII</u>   |

**Satwik, I.F.S.**  
**Divisional Forest Officer,**  
**Dumka Forest Division, Dumka.**

**GOTTE RAJESH**  
General Manager Project  
Pachwara South Coal Mine  
NUPPL, Dumka (Jharkhand)



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|       |  |  |
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| c.    | Safety zone shall be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration shall be taken up in this area by the user agency at project cost under the supervision of the State Forest Department; and                 | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XIX</u>   |
| d.    | The State Government and the user agency shall ensure that safety zone is maintained as per the prescribed norms;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XX</u>    |
| xvii. | Following activities, as per approved plan / schemes, shall be undertaken in the lease area by the User Agency under the supervision of the State Forest Department:   |  |
| a.    | Mitigative measures to minimize soil erosion and choking of stream shall be implemented within a period of three year with effect from the issue of 'Final' approval in accordance with the approved Plan/Scheme in consultation with the State Forest Department; | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXI</u>   |
| b.    | Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved Plan/scheme;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXII</u>  |
| c.    | Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour in accordance with the approved Plan/Scheme;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXIII</u> |
| d.    | Stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28°; and   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXIV</u>  |
| e.    | No damage shall be caused to the top-soil and the user agency will follow the top soil   | The user agency will abide by the condition. An undertaking to this effect is enclosed as                        |

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**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



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**DUMKA- 814 101, JHARKHAND, INDIA,**

**CIN: U40300UP2012GOI053569**

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|        | management plan.  | Annexure-27 <u>XXV</u>  |
| xviii. | The validity of approval granted under the Adhiniyam shall be for a period co terminus with the validity of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended from time to time or Rules framed there under, or for such period as may be specified by the Central Government;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXVI</u>   |
| xix    | The User Agency either himself or through the State Forest Department shall undertake gap planting and soil and moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located within the periphery of 100 m from outer perimeter of the mining lease as per approved plan for plantation and SMC activities submitted along with compliance of 'in-principle' approval; | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXVII</u>  |
| xx.    | The User Agency shall regularly undertake desilting of village tanks and other water bodies, located within five km from the mine lease boundary, as per approved plan, to mitigate the impact of project on such tanks/water bodies;   | Plan for de-silting of village tanks and other water bodies is under preparation, once it is approved by competent authority amount will be paid by M/s NUPPL.<br><br>The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXVIII</u> |
| xxi.   | The User Agency shall comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which may have been disturbed due to mining to restore them to a   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXIX</u><br><br>Sajwik, I.F.S.<br>Divisional Forest Officer,<br>Dumka Forest Division, Dumka   |

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|        | condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner;  |   |
| xxii.  | Adequate care shall be taken to check any rolling of overburden/dumps beyond the designated area and to check soil erosion caused due to mining activities;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXX</u>  |
| xxiii. | The user agency shall undertake de-silting of the village tanks and other water bodies located within five km from the mine lease boundary so as to mitigate the impact of siltation of such tanks/water bodies, whenever required;                      | Mentioned in point number XX.   |
| xxiv.  | The User agency will undertake comprehensive soil conservation measures at the project cost in consultation with the State Forest Department. A scheme of the same shall be submitted to the Regional Office along with the 'in-principle' approval; and | <p>As per the MoEF &amp; CC, GoI 07.06.2022 Circular dated User Agency can make an upfront payment of 0.5% of the project cost towards the cost of implementation of Soil and Moisture Conservation plan for submitting the compliance of in-principal approval.</p> <p>The User Agency has deposited an amount of Rs. 11.2145 crores towards Soil and Moisture Conservation plan through RTGS (UTR No. <u>54115250</u> <u>10857159</u>) dated <u>16/01/2025</u> in State CAMPA fund. Copy of the RTGS slips is enclosed as</p> <p>An Undertaking has also been enclosed for submission of additional cost if any, towards implementation of Soil and Moisture Conservation plan.</p> <p>M/s NUPPL is ready to pay deficit amount if any, from the money already realized to the tune of 0.5% of project cost for preparation of Soil Conservation Management Plan (SMC) after the approval of Competent Authority.</p> <p>Further, M/s NUPPL undertakes to pay the cost of other similar plans which are under preparation. Once the plans are approved by</p> |

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**Satwik, I.F.S.**  
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CIN: U40300UP2012GOI053569

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|         |   | Competent Authority, payment for the cost of implementation will be done accordingly.<br>Annexure- <u>XXXI</u>        |
| xxv.    | Under no circumstances, approval granted for the use of forest land for underground mining, shall subsequently be converted to opencast mining operations.  | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXII</u>   |
| xxvi.   | The R&R Plan shall be implemented as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones; | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXIII</u>  |
| xxvii.  | The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXIV</u>   |
| xxviii. | The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXV</u>    |
| xxix.   | The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;  | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXVI</u>   |
| xxx.    | No labour camp shall be established on the forest land and the User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXVII</u>  |
|         | The boundary of the diverted forest land, mining lease and safety zone, as applicable, shall be demarcated on ground at the   | The user agency will abide by the condition. An undertaking to this effect is enclosed as<br>Annexure- <u>XXXVIII</u> |

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|         | project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates;\The layout plan of the mining plan/ proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal; |  |
| xxxii.  | The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XXXIX</u> |
| xxxiii. | No damage to the flora and fauna of the adjoining area shall be caused;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XL</u>    |
| xxxiv.  | The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XLI</u>   |
| xxxv.   | The User Agency shall submit the annual self -compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year regularly;   | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XLII</u>  |
| xxxvi.  | Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife shall be carried with by the State Government and  | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XLIII</u> |

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Dumka Forest Division, Dumka



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NEW DELHI 2024

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|          | user agency; and  |   |
| xxxvii.  | Violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and action would be taken as prescribed in para 1.16 of Chapter 1 of the Consolidated Guidelines and Clarifications on Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 as issued by this Ministry's letter dated 29.12.2023; | The user agency will abide by the condition. An undertaking to this effect is enclosed as Annexure- <u>XLIV</u> |
| xxxviii. | The compliance report shall be uploaded on e-portal ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ).  | The Stage - I compliance report is uploaded in PARIVESH through e-portal.<br>Annexure- <u>XLV</u>               |

Please accept the above compliance report for your kind perusal and processing of Stage - II Forest Clearance in favour of Pachwara South Coal Block of Ms/s NUPPL.

Thanking you.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

General Manager/Project Head,

PSCMP, NUPPL  
**GOTTE RAMESH**

General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



Annex - 1

NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी इंडिया लिमिटेड एंव यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

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ANNEX-1



ITUWTSA  
NEW DELHI 2024

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 06.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the legal status of the diverted forest land shall remain unchanged.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

General Manager/Project Head,  
PSCMP, NUPPL

GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



Government of India  
Ministry of Environment, Forest and Climate Change  
(Forest Conservation Division)

Indira Paryavaran Bhawan,  
Aliganj, Jor Bagh Road,  
New Delhi: 110003  
Dated: December, 2024

To

The Addl. Chief Secretaries of Forests/Principal Secretary (Forests),  
All States Governments and Union territory Administrations

**Sub: Streamlining of the approval process with regards to compensatory afforestation as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024 – reg.**

Madam/Sir,

I am directed to refer to the above subject and to inform that based on the references received from the Ministry of Mines, and Ministry of Coal, the provisions related to raising of compensatory afforestation, as envisaged in the Van (Sanrakshan Evam Samvardhan) Rules, 2023 as amended on 20.09.2024, have been reviewed by the Ministry and after due deliberations, the Central Government, in accordance with the provisions of section 3C of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 hereby issues the following clarifications:

- i. Provisions of Rule 14(1) of the Van (Sanrakshan Evam Samvardhan) Rules, 2023, provides that the non-forest land identified for raising Compensatory Afforestation (CA) is to be notified as Protected Forests before final approval (Stage-II) approval is granted by the Central Government. However, in cases where non-forest land identified for CA has been transferred and mutated in favour of the State Forest Department (SFD), the Central Government may accord final approval keeping in view the fact that provisions of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 become applicable on such lands being entered as forest in government record/record of rights.
- ii. In such cases, referred in para (i) above, the non-forest land forest land proposed for CA, shall be notified as Protected Forest under section 29 of the Indian Forest Act, 1927 or local forest Act before handing over of forest land to the User Agency by the State Government. The Nodal Officer, after notification of such non-forest lands, shall upload a copy of said notification on the PARIVESH portal.
- iii. For the purpose of rule 13(4)(a) of the States or Union territory Administrations, having forest area more than 33% of their total geographical area, concerned State Government/UT Administration may authorise a suitable officer to issue certificate of non-availability of the suitable non-forest land for raising CA.
- iv. As per the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, projects of Central Government entities/CPSU and captive coal blocks of the State PSUs are eligible for raising CA over degraded forest land which will be double in extent of the forest land being diverted. Accordingly, the State Government/UT shall not insist for providing non-forest land as CA unless in cases wherein the Central Government

**GOTTE RAMESH**

General Manager/ Project Head  
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NUPPL, Dumka (Jharkhand)

  
S. S. S. S., I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



- Agencies/CPSUs or State Government PSUs with captive coal blocks are forthcoming to provide non-forest land available with them as CA or the State Government/UT Administration is willing to provides non-forest land on such terms and condition which is agreed by the Central Government Agencies/CPSUs or State Government PSUs in case of captive coal blocks.
- v. With regards to the applicability of the provisions of the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024 in respect of proposals of the Central Agencies/PSUs and captive coal blocks of the State PSUs which were granted 'in-principle' approval stipulating CA over non-forest land, the following clarification is given in this regard:
- Proposals, which were submitted by the States/UTs before notification of Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL.
  - Proposals, which were submitted by the States/UTs along with CA proposal over non-forest land and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), can also be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL provided the non-forest land proposed for CA is not transferred and mutated in favour of the State Forest Department. In such cases, the Central Government or its Regional Office, based on the request of the State/UT Government or user agency, shall amend the condition of in-principle approval to raise CA over DFL on a case to case basis and subsequently the User Agency shall submit the compliance of in-principle for the obtaining the 'final' approval.

In view of the above, the State Government and Union territory Administrations are requested to take into consideration the guidelines mentioned hereinabove while considering the proposals submitted under section 2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

This issues with the approval of the competent authority.

Yours faithfully,

Signed by

Charan Jeet Singh

Date: 17-12-2024 13:56:41

(Charan Jeet Singh)  
Scientist 'E'

Copy to:

1. Director, PMO, South Block, New Delhi
2. Secretary, Ministry of Mines /Coal /Steel/ Power/ Railways/ MoRT&H/ Defence/MHA
3. Secretary, Ministry of Defence, Government of India
4. Principal Chief Conservator of Forests & HoFF, All States Governments and Union territory Administrations
5. Dy Director General of Forests (Central) All Regional Offices of the MoEF&CC

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1/30686/2024

6. Nodal Officers, dealing with the matters related to the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, All States Governments and Union territory Administrations
7. Head, NIC, MoEFCC for aligning the PARIVESH 2.0 as per above

24

**GOTTE RAMESH**

General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

6

**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka

GOPI RAMESH  
Manager Project Head  
(Thanking)



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Ministry of Environment, Forest and Climate Change  
Government of India

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| Sl. No.             | Proposal Details                 | Application No. | Application No (New) | PRINCIPLE   | Amount to be Paid/Amount Paid (in Rs.)  | Payment Status | Payment Detail  | Demand Letter                      |
|---------------------|----------------------------------|-----------------|----------------------|-------------|---|----------------|---|------------------------------------|
| FF/20/00059823/2020 | Pachwara South Coal Mine Project | 58598232020409  | 5859823409           | 18 Sep 2024 | CA: 1122681423/-<br>PCA: 0/-<br>Safety Zones: 0/-<br>NPV: 0/-<br>Other Charges1: 0/-<br>Other Charges2: 0/-<br>Other Charges3: 0/-<br>Total: 1122681423/- | Paid           | Fund Demand Verified by<br>Nodal Officer On<br>Bank Name<br>Mode of Payment<br>Challan Generated On<br>Transaction Date<br>31 Jan 2025<br>(Union Bank Of India<br>NEFT RTGS (Challan)<br>31 Jan 2025<br>01 Feb 2025 | Demand Letter<br>Generated Challan |
| FF/20/00059823/2020 | Pachwara South Coal Mine Project | 58598232020708  | 5859823708           | 18 Sep 2024 | CA: 0/-<br>PCA: 0/-<br>Safety Zones: 0/-<br>NPV: 0/-<br>Other Charges1: 0/-<br>Other Charges2: 0/-<br>Other Charges3: 0/-<br>Total: 112145000/-           | Paid           | Fund Demand Verified by<br>Nodal Officer On<br>Bank Name<br>Mode of Payment<br>Challan Generated On<br>Transaction Date<br>10 Jan 2025<br>(Union Bank Of India<br>NEFT RTGS (Challan)<br>10 Jan 2025<br>10 Jan 2025 | Demand Letter<br>Generated Challan |
| FF/20/00059823/2020 | Pachwara South Coal Mine Project | 58598232020345  | 5859823345           | 18 Sep 2024 | CA: 0/-<br>PCA: 0/-<br>Safety Zones: 0/-<br>NPV: 0/-<br>Other Charges1: 0/-<br>Other Charges2: 0/-<br>Other Charges3: 0/-<br>Total: 112145000/-           | Paid           | Fund Demand Verified by<br>Nodal Officer On<br>Bank Name<br>Mode of Payment<br>Challan Generated On<br>Transaction Date<br>07 Jan 2025<br>(Union Bank Of India<br>NEFT RTGS (Challan)<br>07 Jan 2025<br>09 Jan 2025 | Demand Letter<br>Generated Challan |
| FF/20/00059823/2020 | Pachwara South Coal Mine Project | 58598232020337  | 5859823337           | 18 Sep 2024 | CA: 0/-<br>PCA: 0/-<br>Safety Zones: 0/-<br>NPV: 617635418/-<br>NA: 0/-<br>Total: 448550000/-   | Paid           | Fund Demand Verified by<br>Nodal Officer On<br>Bank Name<br>Mode of Payment<br>Challan Generated On<br>Transaction Date<br>30 Dec 2024<br>(Union Bank Of India<br>NEFT RTGS (Challan)<br>30 Dec 2024                | Demand Letter<br>Generated Challan |



17. Specific recommendation of the State Government for acceptance or otherwise of the proposal with reason ( Part V)

| State     | Recommendation By | Recommendation Date | Remarks    | Signing Authority,              | Notification | Recommendation Letter |
|-----------|-------------------|---------------------|------------|---------------------------------|--------------|-----------------------|
| Jharkhand | State Secretary   | Recommended         | 30/11/2022 | Recommended State Govt. Officer | No Data      |                       |

Stage-I Clearance Report

17.

| Regional Office | Recommendation By | MoEF File No. | Date of Stage-I Clearance | Clearance Letter |
|-----------------|-------------------|---------------|---------------------------|------------------|
| Ranchi          | Head Office       | 8-37/2022-FC  | 18/09/2024                |                  |

18. Payment made by User Agency

| Proposal No.                         | Application No. | Total Amount (Rs.) | Relieved Amount (Rs.) | Transaction Date | Transaction ID         | Bank Name           | Mode of Payment     | Generated By User Agency | Verified By Nodal Officer | Uploaded Demand Letter |
|--------------------------------------|-----------------|--------------------|-----------------------|------------------|------------------------|---------------------|---------------------|--------------------------|---------------------------|------------------------|
| FP/JH/MIN/59823/2020MIN598232020337  |                 | 617,635,418.00     | 617,635,000.00        | 2024-12-21       | SBINRS2024122169631364 | Union Bank Of India | NEFT/RTGS (Challan) | 2024-12-14               | 2024-12-20                |                        |
| FP/JH/MIN/59823/2020MIN598232020345  |                 | 448,580,000.00     | 448,580,000.00        | 2025-01-09       | SBINRS2025010971616787 | Union Bank Of India | NEFT/RTGS (Challan) | 2025-01-05               | 2025-01-07                |                        |
| FP/JH/MIN/59823/2020MIN598232020708  |                 | 112,145,000.00     | 112,145,000.00        | 2025-01-10       | SBINRS20250108573359   | Union Bank Of India | NEFT/RTGS (Challan) | 2025-01-10               | 2025-01-10                |                        |
| FP/JH/MIN/59823/2020MIN5982320204091 |                 | 122,681,423.00     | 122,680,000.00        | 2025-02-01       | SBINRS2025020174046500 | Union Bank Of India | NEFT/RTGS (Challan) | 2025-01-29               | 2025-01-31                |                        |

19. Uploaded Status of Land to be transferred to Forest Department under FCA (Mutation Details).

- (i). Whether CA Land is mandatorily required in this Proposal : Yes
- (ii). Total Land Identified for raising CA: 972.73
- (iii). No. of Maintenance years: 10
- (iv). Total No. of Patches/Parcel: 50

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

No. of patches : 1

Patch wise details

| Patch No. | Shape of land Identified for CA | Area of Patch/Parcel(in ha.) |
|-----------|---------------------------------|------------------------------|
| 1         | Block(Polygon)                  | 59                           |

Extent of CA 1 and on identified - Enclosed Area



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NEYVELI UTTAR PRADESH POWER LIMITED

A-III

(एन.एल.सी.इंडिया लिमिटेड एंव यूपी राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/

Date: 08.01.2025

## UNDERTAKING

M/s Neyveli Uttar Pradesh Power Ltd was granted In Principal/ Stage – I approval on 18.09.2024. As per point number II of In Principal approval, M/s NUPPL was to provide Non – Forest Land for CA purpose.

As per the Van (Sanrakshan Evam Samvardhan) Amendment Rules, 2024, along with the proposal of raising CA over degraded forest land (DFL) and were granted 'in-principle' approval stipulating CA over non-forest land (NFL), shall be allowed to submit compliance of 'in-principle' approval along with CA proposal over DFL in lieu of NFL. The Central Government will consider and grant final approval in such cases stipulating CA over DFL.

M/s NUPPL undertakes to pay an amount of CA as per the demand.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

Sanku, L.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

General Manager/Project Head,  
PSCMP, NUPPL  
GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



KML FILE

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# PARIVESH

## परिवेश

Ministry of Environment, Forest and Climate Change  
Government of India

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| App. Proposal Detail  | Application No.   | Application No (Rev) | Date of Issuance | Amount to be Paid (Amount Paid) (in Rs.)   | Payment Status | Payment Detail | Demand Letter |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
|---|-------------------|----------------------|------------------|--|----------------|----------------|---------------|-----|------|-----|------|-----|----------|-----|---------|-----|------|------------|-----|-----|-----|-----|--|--|-----|-----|--|--|-----|-----|--|--|---------------|-------------------|--|--|--|--|-----------------------------------|
| <div style="display: flex;"> <div style="width: 150px; font-size: 0.8em;"> <b>Project Name:</b> Pashaura South Coal Block Project<br/> <b>Project No:</b> </div> <div style="width: 150px; font-size: 0.8em;"> <b>App. No:</b> HND/MJ202404237<br/> <b>App. Rev:</b> 0429621337                 </div> <div style="width: 150px; font-size: 0.8em;"> <b>Date of Issuance:</b> 08 Sep 2024                 </div> </div> |                   |                      |                  | <table style="width: 100%; font-size: 0.7em;"> <tr> <td>EC:</td> <td>0/-</td> <td>NAF CR:</td> <td>0/-</td> </tr> <tr> <td>PCA:</td> <td>0/-</td> <td>CAT:</td> <td>0/-</td> </tr> <tr> <td>Subsidy:</td> <td>0/-</td> <td>NAF PA:</td> <td>0/-</td> </tr> <tr> <td>NPV:</td> <td>61763416/-</td> <td>NA:</td> <td>0/-</td> </tr> <tr> <td>NA:</td> <td>0/-</td> <td></td> <td></td> </tr> <tr> <td>NA:</td> <td>0/-</td> <td></td> <td></td> </tr> <tr> <td>NA:</td> <td>0/-</td> <td></td> <td></td> </tr> <tr> <td><b>Total:</b></td> <td><b>61763416/-</b></td> <td></td> <td></td> </tr> </table> | EC:            | 0/-            | NAF CR:       | 0/- | PCA: | 0/- | CAT: | 0/- | Subsidy: | 0/- | NAF PA: | 0/- | NPV: | 61763416/- | NA: | 0/- | NA: | 0/- |  |  | NA: | 0/- |  |  | NA: | 0/- |  |  | <b>Total:</b> | <b>61763416/-</b> |  |  | <div style="font-size: 2em; font-weight: bold;">✓</div> Paid | Paid Demand Verified by<br>Model Officer On: 08 Oct 2024<br>Bank Name: State Bank of India<br>Mode of Payment: NEFT/RTGS (Online)<br>Cheque Generated On: 08 Oct 2024<br>Transaction Date: 08 Oct 2024 | Demand Letter<br>Generated Online |
| EC:   | 0/-               | NAF CR:              | 0/-              |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| PCA:  | 0/-               | CAT:                 | 0/-              |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| Subsidy:  | 0/-               | NAF PA:              | 0/-              |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| NPV:  | 61763416/-        | NA:                  | 0/-              |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| NA:   | 0/-               |                      |                  |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| NA:   | 0/-               |                      |                  |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| NA:   | 0/-               |                      |                  |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |
| <b>Total:</b>   | <b>61763416/-</b> |                      |                  |  |                |                |               |     |      |     |      |     |          |     |         |     |      |            |     |     |     |     |  |  |     |     |  |  |     |     |  |  |               |                   |  |  |  |  |                                   |

**GOTS RAMESH**  
 General Manager Project Head  
 Pashaura South Coal Block  
 RUPPL, Gumka (Jharkhand)

**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka





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**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms its obligation to pay any additional amount of NPV, if determined, as per the final decision of the Hon'ble Supreme Court of India.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



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A-51

**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन.एल.सी इंडिया लिमिटेड एंव यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that trees will be felled in a phased manner, only when absolutely necessary, and under the strict supervision of the State Forest Department. Wherever feasible, suitable species will be transplanted.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**Satvik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 09.01.2025

### UNDERTAKING

Wildlife Conservation Plan (WLCP) is under preparation. Once the WLCP is approved by the Competent Authority, accordingly payment for the cost of implementation of plan will be done by M/s NUPPL.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**COTTE RAMESH**  
 General Manager/Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**

(एन.एल.सी.इंडिया लिमिटेड एंव यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उ.पक्रम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.

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**ITUWTSA**  
NEW DELHI 2024

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 08.01.2025


**UNDERTAKING**

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) undertakes that no excavated material and mine waste water shall be discharged into the river. Embankment all along the river bank will be constructed to ensure that the no mining waste water is drained to the river Bonslai.

Yours faithfully,

**For Neyveli Uttar Pradesh Power Ltd.**

  
**Satwik, L.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**General Manager/Project Head**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 09.01.2025

### UNDERTAKING

Catchment Treatment Plan (CAT) for Bonselai River is under preparation. Once the Catchment Treatment Plan is approved by the Competent Authority, accordingly payment for the cost of implementation of plan will be done by M/s NUPPL.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, L.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**

**GOTTE RAMESH**  
 General Manager/Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
 E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that Safety Zone of 100 meter along the river bank will be maintained and inside the safety zone, plantation will be done at the project cost.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, LFS.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PS&MP, NUPPL**  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



Government of India  
Ministry of Environment, Forest and Climate Change  
(Forest Conservation Division)

\*\*\*\*

Indira Paryavaran Bhawan,  
Jor Bagh Road, Aliganj,  
New Delhi: 110003,

Dated: 7<sup>th</sup> June, 2022

To

Addl. Chief Secretaries/Principal Secretaries (Forests),  
All States/Union territory Administrations

**Sub: Charging of an lump sum amount of the project cost towards the cost of implementation of the Wildlife Management Plan and lump sum amount of the project cost towards the cost of implementation of Soil and Moisture Conservation Plan –reg.**

Sir,

I am directed to refer to above mentioned subject and to inform that issue related to preparation of Wildlife Management Plans, Soil Moisture Conservation Plans was considered by the Forest Advisory Committee in its meeting held on 11<sup>th</sup> May, 2022 wherein Committee inter-alia observed that preparation of such plans by the premier/reputed institutes consumes substantial time is resulting into considerable delay in the process which is ultimately delaying the commencement of different developmental projects. Committee further opined that implementation of mitigating measures should invariably be commenced with the commencement of non-forestry use of forest land and under no circumstances, such mitigating measures should be delayed beyond 2 years to ensure commencement of rejuvenation of ecosystem services lost from the forest area allowed for non-forestry use at the earliest possible time. After detailed deliberations and discussion in the matter, the Committee recommended that a lump sum amount towards the cost of implementation of Wildlife Management Plan and Soil and Moisture Conservation Plan should be charged in cases where preparation of such Plans is likely to take more time as compare to submission of other compliance for obtaining Stage-II approval.

Based on the recommendation of the Forest Advisory Committee (FAC) and acceptance of the same by the competent authority of the MoEF&CC, the Central Government provides the following provisions to deal with situations where preparation and finalization of Wildlife Management Plan and Soil and Moisture Conservation Plan is delayed for various reasons not attributable to State/User agency:

- i. The State Government should submit Wildlife Management Plan, along with detail cost of its implementation into the account of CAMPA along with the Stage-I compliance. However, in cases where it is not possible for the State to submit the compliance due to delay in preparation of such plan, a lump sum quantum of following amount may be realized from the User agency and submitted along with the Stage I Compliance:
  - a. 2% of total project cost towards the cost of implementation of the Wildlife Management Plan and/or 0.5% of the project cost towards the cost of implementation of Soil and Moisture Conservation Plan, as the

GOTTE RAMESH

General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

- case may be, shall be charged from the user agency and deposited into the account of CAMPA and the same may be intimated to the MoEF&CC for the purpose of obtaining approval under the FC Act, 1980.
- b. The provisions provided in the WLMP or SMC Plan shall be approved by the competent authority in the State and accordingly, the deficit amount, if any, from the money already realized to the tune of 2% and/or 0.5% of project cost, shall be paid by the user agency, and same shall be deposit in the CAMPA account prior to actual working on the Forest area.
- ii. The State Government shall ensure that details of the finalized WLMP, SMC Plan and disposition of monies, payment of deficit amount, etc. shall be intimated to and concurred by the concerned IRO of the Ministry before actual breaking/Non forestry use of the forest land.
- iii. State Government shall ensure that under no circumstances, implementation of such mitigating measures envisaged in WLMP and SMC or other similar Plans/Schemes should be delayed beyond a period of 2 years to ensure commencement of rejuvenation of ecosystem services lost from the forest area allowed for non-forestry use of forest land at the earliest possible time.

Yours faithfully,

Signed by Charan Jeet  
Singh

Date: 08-06-2022 09:11:07

Reason: Approved (Charan Jeet Singh)  
Scientist 'D'

**Copy to:**

1. PCCF, All States/Union territories Administrations
2. Regional Officers, All Integrated Regional Office of the MoEF&CC at Bhubaneswar
3. The Nodal Officer, O/o the PCCF, All States/Union territory Administrations
4. Monitoring Cell, Forest Conservation Division, MoEF&CC, New Delhi
5. Guard File

  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka



A-7



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in) TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 09.01.2025

### UNDERTAKING


Site Specific Wildlife Management Plan (WLMP) is under preparation, once the plan is approved by Competent Authority, M/s NUPPL is ready to pay the deficit amount from the money already realized to the tune of 2%.

As per the MoEF & CC, Govt Circular dated 07.06.2022 M/s Neyveli Uttar Pradesh Power Ltd has submitted 2% (Rs. 44.858 Crores) of the project cost against the cost of implementation of Site Specific Wildlife Management Plan (WLMP).

Further, M/s NUPPL undertakes to pay the cost of other similar plans which are under preparation. Once the plans are approved by Competent Authority, payment for the cost of implementation will be done accordingly.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,  
PSCMP, NUPPL  
GOTTE RAMESH  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

Amer-12

A-XI



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-1 Compliance/2025/08

Date: 09.01.2025


### UNDERTAKING

M/s NUPPL has conducted Digital Elevation Model (DEM) of 10 KM radius using LIDAR technology. On basis of DEM, Catchment Area Treatment Plan and Soil Moisture Conservation Plan are under preparation, once it is approved by competent authority cost of implementation will be paid by M/s NUPPL.

The user agency will abide by the condition and ready to pay additional amount after the approval of plans by competent authority.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,  
PSCMP, NUPPL

GOTTE RAMESH  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in) TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 09.01.2025

### UNDERTAKING

Water security plan is under preparation, once the plan is approved by the competent authority the cost for implementation of plan will be paid by M/s NUPPL.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
 General Manager/Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that all the funds will be transferred/deposited in CAMPA account only through e-portal (<https://parivesh.nic.in/>).

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
 General Manager/Project Head,  
 PSCMP, NUPPL

**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka





NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी.इंडिया लिमिटेड एंव यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms its commitment to undertake mining in a phased manner, ensuring due care for the reclamation of mined-out areas. The Concurrent Reclamation Plan, as outlined in the approved Mining Plan, will be implemented from the first year of operations. An annual report on its implementation will be submitted to the Nodal Officer under the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980, of the concerned State Government and the respective Regional Office of the Ministry.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**Sanku, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division.

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



Annex-13

**NEYVELI UTTAR PRADESH POWER LIMITED**

(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: pachwara.south@nclindia.in, TEL: 06434-236147.



**ITUWTSA**  
NEW DELHI 2024

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 09.01.2025


**UNDERTAKING**

Preparation of schedule for the surrender of the mined-out and reclaimed forest land in accordance with the existing mining plan is under progress, once it is approved by Competent Authority. An undertaking to surrender the mined-out and reclaimed forest land as per the schedule will be submitted to MoEF&CC before the grant of 'Final' approval under the Adhiniyam for the diversion of the said forest land.

Yours faithfully,

**For Neyveli Uttar Pradesh Power Ltd.**

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
PSCMP, NUPPL  
**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



ANNEXURE - XV

**PHASED RECLAMATION & AFFORESTATION SCHEME**

in compliance  
with  
Condition No.XIV of  
Stage-I approval granted vide  
Letter dt.18.09.2024  
Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)  
for  
Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980  
within Pachwara South Coal Block  
of  
M/S Neyveli Uttar Pradesh Power Limited.  
Dist.Dumka  
Jharkhand.

  
**GONE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satvik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka

**SCHEME FOR RECLAMATION AND AFFORESTATION OF  
PACHWARA SOUTH COAL BLOCK OF M/S NEYVELI UTTAR  
PRADESH POWER LIMITED IN DUMKA DISTRICT OF JHARKHABD.**

**Introduction**


It is mandatory to undertake the phased restoration, reclamation and rehabilitation of mined out area whether forest or non-forest by mining operation and shall complete this work before the closing of mining operation and abandonment of the mine.

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per Condition No.XIV for preparation and implementation of a scheme to surrender the mined out and reclaimed forest area.

  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, J.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka



The proposed land use pattern over 714.8553 Ha (455.1108 Ha forest land + 259.7445 Ha Non forest land) is furnished below:

**Table-1**  
**PROPOSED LAND USE PATTERN**


| Type                                | Proposed Land Use |                 |          | Land use at End of Mine Life |                 |          | Land Use (Post Closure) |            |         |             |             |             |          |
|-------------------------------------|-------------------|-----------------|----------|------------------------------|-----------------|----------|-------------------------|------------|---------|-------------|-------------|-------------|----------|
|                                     | Proposed in Ha    |                 |          | (End of Mine in Ha)          |                 |          | Agricultural Land Land  | Plantation | Water   | Public/     | Forest Land | Undisturbed | Total    |
|                                     | Forest Land       | Non Forest Land | Total    | Forest Land                  | Non Forest Land | Total    |                         |            | Body    | Company Use | (Returned)  |             |          |
| Excavation Area                     | 447.3308          | 196.4292        | 643.7600 |                              |                 |          |                         |            |         |             |             |             | 0.0000   |
| Backfilled Area                     |                   |                 | 0.0000   | 371.7900                     | 161.8000        | 523.6200 | 31.7000                 | 107.2300   |         |             | 371.7900    |             | 523.6200 |
| Excavated Void                      |                   |                 | 0.0000   | 75.5708                      | 44.5692         | 120.1400 |                         |            | 44.5692 |             | 75.5708     |             | 120.1400 |
| Without Plantation                  |                   |                 | 0.0000   |                              |                 |          |                         |            |         |             |             |             | 0.0000   |
| Top Soil Dump                       |                   | 8.5300          | 8.5300   |                              | 8.5300          | 8.5300   |                         | 8.5300     |         |             |             |             | 8.5300   |
| External Dump surface (dirt)        |                   |                 | 0.0000   |                              |                 |          |                         |            |         |             |             |             | 0.0000   |
| Safety Zone                         | 7.7900            | 3.0600          | 10.8400  | 7.7900                       | 3.0600          | 10.8400  |                         | 3.0600     |         |             | 7.7900      |             | 10.8400  |
| Haul road between quarries          |                   | 17.1300         | 17.1300  |                              | 17.1300         | 17.1300  |                         | 17.1300    |         |             |             |             | 17.1300  |
| Road Diversion                      |                   | 3.3100          | 3.3100   |                              | 3.3100          | 3.3100   |                         |            |         | 3.3100      |             |             | 3.3100   |
| Diversion/ Below River (isle/Canal) | 0.0000            | 0.0000          | 0.0000   |                              |                 |          |                         |            |         |             |             |             | 0.0000   |
| Settling Pond                       |                   | 0.0400          | 0.0400   |                              | 0.0400          | 0.0400   |                         |            |         | 0.0400      |             |             | 0.0400   |
| Road & Infrastructure area          |                   | 18.4700         | 18.4700  |                              | 18.4700         | 18.4700  |                         | 17.8400    |         | 0.6300      |             |             | 18.4700  |
| Rationalisation Area                |                   |                 | 0.0000   |                              |                 |          |                         |            |         |             |             |             | 0.0000   |
| Gravel Drains                       |                   | 4.8900          | 4.8900   |                              | 4.8900          | 4.8900   |                         |            |         | 4.8900      |             |             | 4.8900   |
| Embankment                          |                   | 3.5600          | 3.5600   |                              | 3.5600          | 3.5600   |                         |            |         | 3.5600      |             |             | 3.5600   |
| Green Belt                          |                   | 3.0600          | 3.0600   |                              | 3.0600          | 3.0600   |                         | 3.0600     |         |             |             |             | 3.0600   |

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Sahwik IFC**  
Divisional Forest Officer  
Dumka Forest Division, Dumka

| Type                               | Proposed Land Use |                 |                 | Land use at End of Mine Life |                 |                 | Land Use (Post Closure) |                 |                |                |                 |               |                 |
|------------------------------------|-------------------|-----------------|-----------------|------------------------------|-----------------|-----------------|-------------------------|-----------------|----------------|----------------|-----------------|---------------|-----------------|
|                                    | Proposed in Ha    |                 |                 | (End of Mine in Ha)          |                 |                 | Agricultural Land Land  | Plantation      | Water          | Public         | Forest Land     | Undisturbed   | Total           |
|                                    | Forest Land       | Non Forest Land | Total           | Forest Land                  | Non Forest Land | Total           |                         |                 | Body           | Company Use    | (Returned)      |               |                 |
| Water Reservoir Near Pit           |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| UG Entry                           |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Undisturbed / Mining Rights for UG |                   | 3.2653          | 3.2653          |                              | 3.2653          | 3.2653          |                         |                 |                |                |                 | 3.2653        | 3.2653          |
| Resettlement                       |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               |                 |
| Pit Head                           |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Power Plant                        |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Water Harvesting                   |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Agricultural Land                  |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| <b>Total</b>                       | <b>455.1109</b>   | <b>289.7445</b> | <b>714.8553</b> | <b>455.1109</b>              | <b>289.7445</b> | <b>714.8553</b> | <b>51.1600</b>          | <b>148.2200</b> | <b>44.8692</b> | <b>12.4300</b> | <b>455.1109</b> | <b>3.2653</b> | <b>714.8553</b> |

  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Subwik, I.F.S.**  
 Divisional Forest Officer  
 Dumka Forest Division, Dumka



In the initial phase of mining, the pit will be opened in the western part of the block and the waste material will be dumped temporarily in the eastern part of the block. The overburden generated in the initial 6 years shall be dumped in the eastern part of the Block beyond Fault F4. Height of the dump will remain 60 meter on average with 30 meter height in each tier. Concurrent backfilling will commence from the 7th year from production commencement. Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. As per approved Mining plan and Progressive Mine closure plan the details of proposed reclamation is as follows:

| Stage/ Year  |                    | Biologically Reclaimed Area (ha) - Cumulative |                         |            |                     |          | Forest Land (Return) | Undisturbed/ To be left for Public/ Community Use | Total           |
|--------------|--------------------|---|-------------------------|------------|---------------------|----------|----------------------|---|-----------------|
|              |                    | Agriculture                                   | Reclamation(plantation) | Water Body | Public/ Company Use | Total    |                      |   |                 |
| Yr 1         | Development Period |   |                         |            |                     |          |                      |   |                 |
| Yr 2         |                    |   |                         |            |                     |          |                      |   |                 |
| Yr 3         | Y-1                | -   | -                       | -          | -                   | -        | -                    | -   | -               |
| Yr 5         | Y-3                | -   | -                       | -          | -                   | -        | -                    | -   | -               |
| Yr 7         | Y-5                | -   | -                       | -          | -                   | -        | -                    | -   | -               |
| Yr 8         | Y-6                | -   | -                       | -          | -                   | -        | -                    | -   | -               |
| Yr 12        | Y-10               | -   | 35.45                   | -          | -                   | -        | -                    | -   | -               |
| Yr 17        | Y-15               | -   | 76.26                   | -          | -                   | -        | -                    | -   | -               |
| Yr 22        | Y-20               | -   | 102.34                  | -          | -                   | -        | -                    | -   | -               |
| Yr 27        | Y-25               | -   | 132.87                  | -          | -                   | -        | -                    | -   | -               |
| Yr 32        | Y-30               | -   | 145.12                  | -          | -                   | -        | -                    | -   | -               |
| Yr 38        | Y-36               | -   | 161.05                  | -          | -                   | -        | -                    | -   | -               |
| Post Closure |                    |   |                         |            |                     |          |                      |   |                 |
| Yr 41        | Y-39               | 51.16   | 148.32                  | 44.5892    | 12.43               | 256.4792 | 455.1108             | 3.2653  | 714.8553 (=715) |

The total forest land in this project is about 455.1108 Ha and is to be returned to the concerned Government authority at the end of the mine life. The distribution of the forest lands are as follows:

1. 371.76 ha – Backfilled dump and shall be covered under Plantation.
2. 7.78 ha - the part of the safety zone- shall be utilized for plantation.
3. 75.5708 ha – as a part of the last phase of mine and shall be utilized for water body creation.

At the end of the closure period, total 711.59 ha of land will be biologically reclaimed.

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Sahwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

### Phased Reclamation & Afforestation Programme

(No. of Saplings per hectare = 1600)

Reclamation programme will be carried out as per approved mining plan/scheme. However in the conceptual period total 523.62 Ha (371.76 Ha forest+151.89 Ha) area will be reclaimed by backfilling and bench plantation method and it will be done by the schemes mentioned in approved mining plan/scheme. Further 187.97 Ha (104.6192 Ha Non Forest+ 83.3508 Ha Forest) will also be reclaimed which includes plantation in safety zone, creation of water body etc. 3.2653 Ha Non forest area will not be used. Total 711.59 Ha area will be reclaimed as per approved mining plan. 11,38,544 No of saplings (1600 x 711.59) will be planted for reclamation and rehabilitation of mined out area.

### Proposed Reclamation & Afforestation

The total area to be used for mining and ancillary activities is 711.59 Ha. land and this area is to be reclaimed in a phased manner. It is proposed to reclaim the above area in phase as per approved mining plan. After the complete extraction of ore, the mined-out area will be back-filled with mine wastes as well as some part of the quarry benches, not covered under backfilling will be planted with saplings on benches. In the backfilled area the surface layer will be covered with topsoil and planting will be done with care following standard practice to achieve good percentage of survival. This process will be repeated for other phases also. Likewise in overburden dump areas, the sooner one terrace has reached the permissible height, it will be stabilized by proper compaction and the second bench will be allowed to be dumped by leaving berm. The surface of the 1<sup>st</sup> bench will be properly compacted by ramming and covered with top soil stored earlier. Tree planting will be done by digging pits of 30 cm x 30 cm x 30 cm at 2.5 mt. spacing along the berm. Species to be planted will be in consultation with the local forest officials.

  
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### Choice of species

The choice of species for a specific site always depends on the existing vegetation, if any. Accordingly the following species will suit to the site.

| Sl. No. | Common Name | Botanical Name                |
|---------|-------------|-------------------------------|
| 1       | Amla        | <i>Emblica officinalis</i>    |
| 2       | Bamboo      | <i>Dendrocalamus strictus</i> |
| 3       | Karanja     | <i>Pongamia pinnata</i>       |
| 4       | Asan        | <i>Terminalia tomentosa</i>   |
| 5       | Sisoo       | <i>Dalbergia sisoo</i>        |
| 6       | Gambhar     | <i>Gmelina arborea</i>        |
| 7       | Neem        | <i>Azadirachta indica</i>     |
| 8       | Harida      | <i>Terminalia chebula</i>     |
| 9       | Bahada      | <i>Terminalia bellerica</i>   |

### RAISING OF NURSERY

Seedlings required for the plantation shall be raised in the nursery of Pachwara South Coal block of M/s Neyveli Uttar Pradesh Power Ltd. (NUPPL). The Nursery should have a capacity of raising adequate seedlings. Nursery works will be undertaken in consultation with D.F.O. Dumka Division. All the infrastructures shall be provided by M/S Neyveli Uttar Pradesh Power Ltd. (NUPPL). Work will be started one year before the year of plantation so that two-year-old seedlings will be available for plantation. 20% extra seedlings shall be raised to compensate and mitigate the eventuality of seedling casualty in the nursery. Standard nursery practices shall be followed for raising of seedlings in polythene bags.

### ALIGNMENT AND STACKING

Alignment, stacking and pitting will be taken up in the month of March-April. Pits of size 30cm X 30cm X 30cm will be dug maintaining a spacing of 2.5 mt @ 1600 plants per hectare.

  
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## PLANTING

The seedlings will be planted in dug out pits of 30 cm<sup>3</sup> maintaining a spacing of 2.5 mt between the pits @ 1600 seedlings per hectare. Plantation should be taken up after first regular shower of monsoon and should ideally be completed by the end of August. NPK/DAP fertilizer @ 30 gms per plant should be given as basal dose. Anti- termite insecticide @ 5 gms. per plant should be applied per pit. Foreign earth shall be provided in each pit to enrich the growth of seedlings within a marked period. Casualty replacement when required during the planting year and in the second year should be undertaken for which the seedlings shall be raised.

## WEEDING, SOIL WORKING AND MANURING

For establishment and better growth of the planted seedlings, weeding, soil working and manuring are necessary. It is prescribed to carry out two weedings, soil working and manuring during the first year and second year of plantation and one weeding and soil working during the third year. Weeding and manuring for the first and second year shall be carried out during August- September and the second one during October- November along with soil working during which 30 gms. of NPK/DAP shall be added to the soil per plant. First weeding shall be an area weeding and the second weeding should be strip weeding. The weeding of third year will be an area weeding which shall be carried out during August.

## APPLICATION OF INSECTICIDES

The plantation site after being planted with good seedlings may get infested with diseases owing to influx of insects and pests into the area in future which usually cause heavy damage to the soft, tender and avidly growing parts of the plant that heavily affects the rate of growth and sometimes causes wide spread casualty of the seedlings. To avoid such incidences, foliar spray and ground application of insecticides at regular intervals usually on a sunny day before fore noon shall be done.

## FIRE LINE TRACING AND MAINTENANCE

Fire causes irreparable damage to the plantation and the forest growth during fire season and to prevent such fire out-breaks in the area, the plantation area shall be divided into suitable blocks by tracing fire lines. Boundaries of the plantation

  
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patches and these block lines will be scrapped of forest growth to a width of 3.0 mt. during Feb-March and the cut back materials and the dry leaves stacked along these fire lines shall be burnt under supervision of responsible staff of the Lessee. This operation is highly essential and the scheme proposes to carry this operation for the first three years.

#### COST OF BIOLOGICAL RECLAMATION

Total cost for Biological Reclamation over 711.59 hectares (@ Rs. 415587 per hectare) will be Rs 29,57,27,553/- (Rs Twenty Nine crores Fifty seven lakhs twenty seven thousand five hundred and fifty three). This cost is exclusive of the cost of backfilling of material in the exhausted pit/quarry.

**M/s Neyveli Uttar Pradesh Power Limited**

**Project Head**

  
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**Scheme**

**For**

**MITIGATIVE MEASURES TO MINIMIZE SOIL  
EROSION AND CHOKING OF STREAMS**

**in compliance**

**with**

**Condition No.XVII (a) of  
Stage-I approval granted vide  
Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**

**within Pachwara South Coal Block**

**of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

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## **MITIGATIVE MEASURES TO MINIMIZE SOIL EROSION AND CHOKING OF STREAMS**

### **1. INTRODUCTION**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No.XVII(a) for preparation and implementation of a plan containing appropriate mitigative measures to minimise soil erosion and choking of streams.**

### **2. LOCATION**

Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

Latitude: 24° 29' 57.404" N-24° 31' 46.956" N

Longitude: 87° 27' 22.010" E-87° 29' 56.150" E

The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area near the site and well connected with both Dumka and Pakur (district headquarters)

  
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through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur road respectively.

The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur. The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.


### 3. TOPOGRAPHY

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

### 4. SOIL TYPE

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800

  
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$\mu\text{mho/cm}$  are considered as normal nature of soil. No samples of the area have crossed EC values  $800\mu\text{mho/cm}$ , and thus almost all the soil samples are found to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.

## 5. CLIMATE

The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above  $42^\circ\text{C}$ . As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about  $7^\circ\text{C}$ . While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold. The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about  $1316.8\text{ mm}$  (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

## 6. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala ( $7.5\text{km}$  in SW) & Tirpatia nala ( $9\text{km}$  in S) flows within the  $10\text{km}$  radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around  $4\text{m}$ . Highest flood level (HFL) of Bansloi River in this part is  $97\text{-meter AMSL}$  as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed. Surface-water yield depends primarily on inflows and storage.

  
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The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7 years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

## EXISTING VEGETATION

The vegetation of the applied area is composed of Arjun (*Terminalia Arjuna*), Sisham (*Dalburgia sisoo*), Asan (*Terminalia Tomentosa*), Aam (*Mangifera indica*), Jamun (*Syzygiumcumini*), Kendu (*Diasporus Melanoxylon*), Baans (*Bamboo*), Kurum, Mahua (*Madhucaindica*), Karam (*Adina cordifolia*), Neem (*Azadirachta Indica*), Sagwan (*Tectona Grandis*) Acacia, Awla etc. **Sal (*Shorea robusta*)** is the pre-dominant species.

## 7. LAND USE PATTERN

During the life of the mine, as per the component wise break up the land use pattern will be as follows:

| Type                               | Proposed Land Use |                 |          | Land use at End of Mine Life |                 |          | Land Use (Post Closure) |            |            |                      |                        |             |          |
|------------------------------------|-------------------|-----------------|----------|------------------------------|-----------------|----------|-------------------------|------------|------------|----------------------|------------------------|-------------|----------|
|                                    | Proposed in Ha    |                 |          | (End of Mine in Ha)          |                 |          | Agricultural Land       | Plantation | Water Body | Public / Company Use | Forest Land (Retained) | Undisturbed | Total    |
|                                    | Forest Land       | Non Forest Land | Total    | Forest Land                  | Non Forest Land | Total    |                         |            |            |                      |                        |             |          |
| Excavation Area                    | 447.3308          | 196.4292        | 643.7600 |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Backfilled Area                    |                   |                 | 0.0000   | 371.7600                     | 151.8600        | 523.6200 | 51.1600                 | 107.2300   |            |                      | 371.7600               |             | 523.6200 |
| Excavated Void                     |                   |                 | 0.0000   | 75.5708                      | 44.5692         | 120.1400 |                         |            | 44.5692    |                      | 75.5708                |             | 120.1400 |
| Without Plantation                 |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Top Soil Dump                      |                   | 6.5300          | 6.5300   |                              | 6.5300          | 6.5300   |                         | 6.5300     |            |                      |                        |             | 6.5300   |
| External Dump / surface dump       |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Safety Zone                        | 7.7800            | 3.0600          | 10.8400  | 7.7800                       | 3.0600          | 10.8400  |                         | 3.0600     |            |                      | 7.7800                 |             | 10.8400  |
| Haill road between quarries        |                   | 17.1300         | 17.1300  |                              | 17.1300         | 17.1300  |                         | 17.1300    |            |                      |                        |             | 17.1300  |
| Road Diversion                     |                   | 3.3100          | 3.3100   |                              | 3.3100          | 3.3100   |                         |            |            | 3.3100               |                        |             | 3.3100   |
| Diversion / Below River Nala/Canal | 0.0000            | 0.0000          | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Settling Pond                      |                   | 0.0400          | 0.0400   |                              | 0.0400          | 0.0400   |                         |            |            | 0.0400               |                        |             | 0.0400   |
| Road & Infrastructure area         |                   | 18.4700         | 18.4700  |                              | 18.4700         | 18.4700  |                         | 17.8400    |            | 0.6300               |                        |             | 18.4700  |
| Rationalisation                    |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |

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| Type                                | Proposed Land Use |                 |                | Land use at End of Mine Life |                 |                | Land Use (Post Closure) |                 |                |                      |                        |               |                |
|-------------------------------------|-------------------|-----------------|----------------|------------------------------|-----------------|----------------|-------------------------|-----------------|----------------|----------------------|------------------------|---------------|----------------|
|                                     | Proposed in Ha    |                 |                | (End of Mine in Ha)          |                 |                | Agricultural Land       | Plantation      | Water Body     | Public / Company Use | Forest Land (Returned) | Undisturbed   | Total          |
|                                     | Forest Land       | Non Forest Land | Total          | Forest Land                  | Non Forest Land | Total          |                         |                 |                |                      |                        |               |                |
| Garland Drains.                     |                   | 4.8900          | 4.8900         |                              | 4.8900          | 4.8900         |                         |                 |                | 4.8900               |                        |               | 4.8900         |
| Embankment.                         |                   | 3.5600          | 3.5600         |                              | 3.5600          | 3.5600         |                         |                 |                | 3.5600               |                        |               | 3.5600         |
| Green Belt.                         |                   | 3.0600          | 3.0600         |                              | 3.0600          | 3.0600         |                         | 3.0600          |                |                      |                        |               | 3.0600         |
| Water Reservoir Near Pit            |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| UG Entry.                           |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| Undisturbed / Mining Rights for UG. |                   | 3.2653          | 3.2653         |                              | 3.2653          | 3.2653         |                         |                 |                |                      |                        | 3.2653        | 3.2653         |
| Resettlement.                       |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| Pit Head Power Plant                |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| Water Harvesting                    |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| Agricultural Land                   |                   |                 | 0.0000         |                              |                 |                |                         |                 |                |                      |                        |               | 0.0000         |
| <b>Total</b>                        | <b>455.108</b>    | <b>259.7445</b> | <b>714.853</b> | <b>455.108</b>               | <b>259.7445</b> | <b>714.853</b> | <b>51.1600</b>          | <b>148.3200</b> | <b>44.5692</b> | <b>12.4300</b>       | <b>455.1108</b>        | <b>3.2653</b> | <b>714.853</b> |

## 8. FACTORS RESPONSIBLE FOR SOIL EROSION & CHOKING OF STREAMS

The mining activities and overburden dumps are the major source of drainage of soil and other substances for choking of any drainage system existing down below. The forms of erosion observed in this region include mainly rill and gully. The storm water runoffs from the uplands, mine faces and OB dump slope areas carry substantial quantity of solids in the lower order streamlets and choke the higher order streams. These lower order streamlets and gullies have high erosion capacity due to steep gradient and transportation of rock fragments with high velocity of the stream and deposition of same in the connecting high order streams due to velocity drop. Streams can also erode by undercutting their banks resulting in mass-wasting processes like slumps or slides. When the undercut material falls into the stream, the fragments are transported and deposited down below in the stream bed. The other mode of sediment transportation is very negligible.

## 9. OBJECTIVES OF THE SCHEME

The objectives are as follows:-

- To fulfil Condition No.XVII (a) of the Stage-I approval granted dt.18.09.2024 of MoEF to undertake "Mitigative measure to minimize soil erosion &

  
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**choking of stream shall be implemented in accordance with the approved plan in consultation with State Forest Department”.**

- ii) To prevent erosion of top soil.
- iii) To prevent obstruction of existing natural water course.
- iv) Proper Management of overburden deposited so as to prevent siltation in the down below streams.
- v) To prevent overflow of eroded soils from the mining areas to the natural streams.

#### **10. PROPOSED METHODOLOGY**

To achieve the above objectives, it has been proposed to take up both biological and structural works for soil and water conservation. The vegetative measures are to be adopted mostly in the Northern part of the lease area whereas the structural works are suggested in the lower reaches such as in the garland drain around O.B. dumps. The overburden generated in the initial 6 years of mining shall be dumped in the eastern part of the Block. Height of the dump will remain 60 meter on average with 30 meter height in each tier. Concurrent backfilling will commence from the 7th year from production commencement. Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. At the end of the mine life, there will be no external dump and this area will go for mining. The following activities are proposed to be taken up to mitigate soil erosion and choking of streams:

- a. Erosion from OB dump slopes areas will be controlled by garland drain, loose boulder structures, settling tanks etc. The main purpose is to control soil erosion from OB dump and mineral stock piles.
- b. Periodic Sediment/silt removal/De-silting etc will also be undertaken in the proposed settling pond as well as from garland drains demarcated at suitable location and shown in the attached plan.

#### **11. MEASURES ALREADY ADOPTED**

There is no Biological and Structural measures exist. It is a fresh mining lease and no mining activities have been taken place so far.

  
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## 12. MEASURES PROPOSED

Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. At the end of the mine life, there will be no external dump. As there will be no dump, hence plantation along the slope of the temporary dump has not been taken into consideration. The details of proposed mitigative measures to minimize soil erosion and choking of streams in Pachwara South Coal Block of M/s Neyveli Uttar Pradesh Power Limited are given below:

### a. Structural Measures

Vegetative means of erosion control are the most feasible and economic measures. However, as the pressure on land is increasing, it is necessary to bring even highly eroded land underutilization. In these lands, vegetative measures are not adequate to keep down the erosion. Some structural measures are required to be taken before vegetative measures are adopted. Structural measures, therefore, serve as supplementary to vegetative measures. The objective behind building mechanical structures is to reduce the degree and length of the slope, reducing run-off and consequently, reducing soil erosion.

#### i) Plan for Construction of Loose Boulder Structure

After studying the topography and the drainage pattern it has been found that there are 10 spots where the LBCD required and accordingly it has proposed to construct **30** nos. of loose boulder structure of 4m span across the proposed garland drain along the dumps & in phase-2, settling pits will help in stabilization of silt & sediment as well as prevention of soil erosion & enrichment of vegetation & greenery development.

  
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*Loose Boulder Structures*

## ii) Plan for Construction of Garland drain

A shallow trench (2.0 m wide x 1.50m deep) will be dug for storage of runoff accumulated for draining surface water before it is released to the agriculture land or natural water course. Details of proposed Garland drain 4830mt shall be constructed during the ensuing seven years period with location is shown in the map.



*Garland Drain around Waste Dump*

## iii) Construction of Retaining wall

A retaining wall is a structure designed and constructed to resist the lateral pressure of soil when there is a change in ground elevation that exceeds the angle of repose of the soil. The Retaining walls are proposed for construction over

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4850mt. Also, there is a provision for maintenance of the retaining wall for the next 4 years.



*Details of Retaining walls*

#### iv) Terracing of OB Dump Slope

It is proposed to construct berm & terraces over a length of 2745mt on the proposed temporary dumps considering the volume of OB materials & the area earmarked for dumping. The slope of individual terrace should be within the permissible range considering the angle of repose of the soil and space available, thereby maintaining the angle of repose at less than  $28^{\circ}$ . The terracing will be done through the internal resources by deploying the operating mining equipment. All these operations will be carried out after sufficient deposition of OB. When OB dump will partially mature, the work will be executed.



*Terracing of OB Dumps*

  
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#### v) Plan for Construction of Settling Tanks

It is a process that involves separation of solid material from slurry. Sometimes, this process is called sedimentation. When waste water is treated, a large quantum of materials is filtered out of the liquid by physical barriers. Even then, the water will contain some solids which need to be removed. A settling tank is proposed to be used to protect the surface water. It has been proposed to construct 1 no. of settling tank. Details of proposed 1 no. of settling Tanks are shown in the map.

#### vi) De-siltation


The de-silting works of the settling tank will be taken up at regular intervals to prevent sedimentation and choking of streams. This de-silting of settling tank will provide space and base to hold the sediment laden runoff thereby allowing settling and clear water to flow down. This de-silting work will be preferably undertaken once in a year before & after monsoon. The implementation of the plans will be site specific in nature depending upon the severity of the sedimentation and choking of stream.

### 13. INSPECTION, MONITORING AND EVALUATION

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from State Forest Department is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

### 14. MOTIVATION OF PEOPLE:

The villagers of the adjoining village, are to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satwik, I.F.S.  
Divisional Forest Officer.  
Dumka Forest Division, Dumka



## EXECUTING AGENCY

The works in the present Scheme shall be executed by the User Agency in consultation with State Forest Department. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.


### 15. REQUIREMENT OF FUNDS

The total cost of implementation of mitigative measures will be **Rupees Two crore twenty-three lacks thirty-five thousand four hundred seventy-six) Only**. The expenditure will be made during the next seven years period. This budget will be subject to increase in amount considering the increase in cost of materials and labour charges. The tentative annual expenditure planned for next seven years for the implementation of the mitigative measures is given in the following tables:

#### FINANCIAL FORECAST OF THE PROJECT (714.8553 HA.)

| Sl. No. | Description of the Work  | Wage Rate Rs.<br>Fund Required<br>(in Rs.) |
|---------|--|--|
|         | <b>Total</b>   |  |
| 1.      | <b>Structural Measures</b>   |  |
| A.      | 30 nos. of Loose Boulder Structure of 4mt span @ Rs. 43577per each                     | 1307310.00                                 |
| B.      | Construction of Garland drain over a length of 4830 mt @ Rs. 488 per RMT               | 2357040.00                                 |
| C.      | Construction of retaining wall over 4850 mt @ Rs1910 per RMT                           | 9263500.00                                 |
| D.      | Terracing of OB dump over a length of 2745mt. @ Rs. 817 per RMT                        | 2242665.00                                 |
| E.      | Construction of 1 no. of settling tank @ Rs 14612 per each                             | 14612.00                                   |
|         | <b>Total</b>   | <b>15185127.00</b>                         |
| 2.      | De-siltation work for Garland drain, settling pond and check dam twice in a year on LS | 500000                                     |
| 3.      | Maintenance of retaining walls   | 500000                                     |
|         | <b>Sub Total</b>   | <b>16185127.00</b>                         |
| 4.      | 15% of the total cost for motivation of VSS / People involved                          | 2427770.00                                 |
|         | <b>Total</b>   | <b>18612897.00</b>                         |
|         | <b>Price escalation @ 20%</b>  | <b>3722579.00</b>                          |
|         | <b>GRAND TOTAL</b>   | <b>2.23,35,476.00</b>                      |

(Rupees Two crore twenty-three lacks thirty-five thousand four hundred seventy-six) only

  
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**Satwik, I.F.S.**  
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Dumka Forest Division, Dumka

*M/s Neyveli Uttar Pradesh Power Limited do hereby undertake to execute the item of works mentioned in this scheme in a phased manner at the project cost.*

*For Neyveli Uttar Pradesh Power Ltd.*

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,

PSCMP, NUPPL.  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**Scheme  
For**

**PLANTING OF ADEQUATE DROUGHT HARDY PLANT SPECIES  
AND SOWING OF SEEDS TO ARREST SOIL EROSION.**

**in compliance**

**with**

**Condition No.XVII (b) of  
Stage-I approval granted vide  
Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**


**within Pachwara South Coal Block**

**of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

**Jharkhand.**

  
**GOTTE RAMESH**  
General Manager/ Project Head  
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**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



**SCHEME FOR PLANTING OF DROUGHT HARDY PLANT SPECIES AND SOWING  
OF SEEDS WITHIN MINING LEASE TO ARREST SOIL EROSION**

**1. INTRODUCTION**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No.XVII(b) for preparation and implementation of a plan for planting adequate drought hardy plant species and sowing of seeds to arrest soil erosion.**

**LOCATION**


Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

Latitude: 24° 29' 57.404" N-24° 31' 46.956" N

Longitude: 87° 27' 22.010" E-87° 29' 56.150" E

The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area near the site and well connected with both Dumka and Pakur (district headquarters) through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur

  
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road respectively. The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur.

The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.

## 2. TOPOGRAPHY

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

## 3. SOIL TYPE

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800  $\mu\text{mho/cm}$  are considered as normal nature of soil. No samples of the area have crossed EC values 800  $\mu\text{mho/cm}$ , and thus almost all the soil samples are found to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.

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#### 4. CLIMATE

The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above 42 degree C. As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about 7degree C. While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold. The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about 1316.8 mm (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

#### 5. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala (7.5km in SW) & Tirpatia nala (9km in S) flows within the 10km radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around 4m. Highest flood level (HFL) of Bansloi River in this part is 97-meter AMSL as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed. Surface-water yield depends primarily on inflows and storage. The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7 years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

  
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Forest Division, Dumka

## EXISTING VEGETATION

The vegetation of the applied area is composed of Arjun (*Terminalia Arjuna*), Sisham (*Dalburgia sisoo*), Asan (*Terminalia Tomentosa*), Aam (*Mangifera indica*), Jamun (*Syzygiumcumini*), Kendu (*Diasporus Melanoxylon*), Baans (*Bamboo*), Kurum, Mahua (*Madhucaindica*), Karam (*Adina cordifolia*), Neem (*Azadirachta Indica*), Sagwan (*Tectona Grandis*) Acacia, Awla etc. **Sal (*Shorea robusta*)** is the pre-dominant species.

## 6. LAND USE PATTERN

During the life of the mine, as per the component wise break up the land use pattern will be as follows:

| Type                               | Proposed Land Use |                 |          | Land use at End of Mine Life |                 |          | Land Use (Post Closure) |            |            |                      |                        |             |          |
|------------------------------------|-------------------|-----------------|----------|------------------------------|-----------------|----------|-------------------------|------------|------------|----------------------|------------------------|-------------|----------|
|                                    | Proposed in Ha    |                 |          | (End of Mine in Ha)          |                 |          | Agricultural Land       | Plantation | Water Body | Public / Company Use | Forest Land (Returned) | Undisturbed | Total    |
|                                    | Forest Land       | Non Forest Land | Total    | Forest Land                  | Non Forest Land | Total    |                         |            |            |                      |                        |             |          |
| Excavation Area                    | 447.3308          | 196.4292        | 643.7600 |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Backfilled Area                    |                   |                 | 0.0000   | 371.7600                     | 151.8600        | 523.6200 | 51.1600                 | 107.2300   |            |                      | 371.7600               |             | 523.6200 |
| Excavated Void                     |                   |                 | 0.0000   | 75.5708                      | 44.5692         | 120.1400 |                         |            | 44.5692    |                      | 75.5708                |             | 120.1400 |
| Without Plantation                 |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Top Soil Dump                      |                   | 6.5300          | 6.5300   |                              | 6.5300          | 6.5300   |                         | 6.5300     |            |                      |                        |             | 6.5300   |
| External Dump / surface dump       |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Safety Zone                        | 7.7800            | 3.0600          | 10.8400  | 7.7800                       | 3.0600          | 10.8400  |                         | 3.0600     |            |                      | 7.7800                 |             | 10.8400  |
| Haul road between quarries         |                   | 17.1300         | 17.1300  |                              | 17.1300         | 17.1300  |                         | 17.1300    |            |                      |                        |             | 17.1300  |
| Road Diversion                     |                   | 3.3100          | 3.3100   |                              | 3.3100          | 3.3100   |                         |            |            | 3.3100               |                        |             | 3.3100   |
| Diversion / Below River Nala/Canal | 0.0000            | 0.0000          | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Settling Pond                      |                   | 0.0400          | 0.0400   |                              | 0.0400          | 0.0400   |                         |            |            | 0.0400               |                        |             | 0.0400   |
| Road & Infrastructure area         |                   | 18.4700         | 18.4700  |                              | 18.4700         | 18.4700  |                         | 17.8400    |            | 0.6300               |                        |             | 18.4700  |
| Rationalisation Area               |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Garland Drains                     |                   | 4.8900          | 4.8900   |                              | 4.8900          | 4.8900   |                         |            |            | 4.8900               |                        |             | 4.8900   |
| Embankment                         |                   | 3.5600          | 3.5600   |                              | 3.5600          | 3.5600   |                         |            |            | 3.5600               |                        |             | 3.5600   |
| Green Belt                         |                   | 3.0600          | 3.0600   |                              | 3.0600          | 3.0600   |                         | 3.0600     |            |                      |                        |             | 3.0600   |
| Water Reservoir Near Pit           |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| UG Entry                           |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |
| Undisturbed / Mining Right         |                   | 3.2653          | 3.2653   |                              | 3.2653          | 3.2653   |                         |            |            |                      |                        | 3.2653      | 3.2653   |
| Reclamation                        |                   |                 | 0.0000   |                              |                 |          |                         |            |            |                      |                        |             | 0.0000   |

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**Satwik, I.F.S.**  
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| Type                 | Proposed Land Use |                 |                 | Land use at End of Mine Life |                 |                 | Land Use (Post Closure) |                 |                |                |                 |               |                 |
|----------------------|-------------------|-----------------|-----------------|------------------------------|-----------------|-----------------|-------------------------|-----------------|----------------|----------------|-----------------|---------------|-----------------|
|                      | Proposed in Ha    |                 |                 | (End of Mine in Ha)          |                 |                 | Agricultural Land       | Plantation      | Water          | Public         | Forest          | Undisturbed   | Total           |
|                      | Forest Land       | Non Forest Land | Total           | Forest Land                  | Non Forest Land | Total           |                         |                 | Body           | Comp any Use   | Land (Returned) |               |                 |
| Pit Head Power Plant |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Water Harvesting     |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| Agricultural Land    |                   |                 | 0.0000          |                              |                 |                 |                         |                 |                |                |                 |               | 0.0000          |
| <b>Total</b>         | <b>455.1108</b>   | <b>259.7445</b> | <b>714.8553</b> | <b>455.1108</b>              | <b>259.7445</b> | <b>714.8553</b> | <b>51.1600</b>          | <b>148.3200</b> | <b>44.5692</b> | <b>12.4300</b> | <b>455.1108</b> | <b>3.2653</b> | <b>714.8553</b> |

## 7. PLANTATION PLANNING DURING THE LEASE PERIOD

The overburden generated in the initial 6 years of mining shall be dumped in the eastern part of the Block. Height of the temporary dump will remain 60 meter on average with 30 meter height in each tier. Concurrent backfilling will commence from the 7th year from production commencement. Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. At the end of the mine life, there will be no external dump and this area will go for mining. **As the dump will be rehandled, hence no plantation of drought hardy species has been planned along the temporary slope or foot of the dump area.**


## 8. INSPECTION, MONITORING AND EVALUATION

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from State Forest Department is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

## 9. MOTIVATION OF PEOPLE:

The villagers of the adjoining villages, are to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA).

  
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 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**G. RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

### **EXECUTING AGENCY**

The works in the present Scheme shall be executed by the User Agency in consultation with State Forest Department. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.

### **10. REQUIREMENT OF FUNDS**

Plantation of drought hardy plant species and sowing of seeds along the temporary dump slope or foot of the dump area will be carried in consultation of Forest department. The financial implications arises herein will be borne by M/s NUPPL.

*For Neyveli Uttar Pradesh Power Ltd.*

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,  
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General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**Scheme  
For**

**CONSTRUCTION OF CHECK DAMS, RETENTION/TOE  
WALLS TO ARREST SLIDING DOWN OF THE  
EXCAVATED MATERIAL ALONG THE CONTOUR**

**in compliance  
with**

**Condition No.XVII (C) of  
Stage-I approval granted vide  
Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**

**within Pachwara South Coal Block  
of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

**Jharkhand.**

  
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**Satwik, I.F.S.**  
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**SCHEME FOR CONSTRUCTION OF CHECK DAMS, RETENTION/TOE WALLS TO ARREST SLIDING DOWN OF THE EXCAVATED MATERIAL ALONG THE CONTOUR.**

**1. INTRODUCTION**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No.XVII(c) for construction of Check Dams, Retention/Toe walls etc. to arrest sliding down of the excavated material along the contour.**

**1. LOCATION**

Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

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The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area

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through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur road respectively. The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur. The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.

## 2. TOPOGRAPHY

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

## 3. SOIL TYPE

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800  $\mu\text{mhos/cm}$  are considered as normal nature of soil. No samples of the area have

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Pachan South Coal Block  
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crossed EC values 800 $\mu$ mho/cm, and thus almost all the soil samples are found to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.

#### 4. CLIMATE


The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above 42 degree C. As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about 7degree C. While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold.

The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about 1316.8 mm (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

#### 5. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala (7.5km in SW) & Tirpatia nala (9km in S) flows within the 10km radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around 4m. Highest flood level (HFL) of Bansloi River in this part is 97-meter AMSL as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed.

Surface-water yield depends primarily on inflows and storage.

  
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The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7 years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

### EXISTING VEGETATION

The vegetation of the applied area is composed of Arjun (*Terminalia Arjuna*), Sisham (*Dalburgia sisoo*), Asan (*Terminalia Tomentosa*), Aam (*Mangifera indica*), Jamun (*Syzygiumcumini*), Kendu (*Diasporus Melanoxylon*), Baans (*Bamboo*), Kurum, Mahua (*Madhucaindica*), Karam (*Adina cordifolia*), Neem (*Azadirachta Indica*), Sagwan (*Tectona Grandis*) Acacia, Awla etc. **Sal (*Shorea robusta*)** is the pre-dominant species.

### 6. LAND USE PATTERN

During the life of the mine, as per the component wise break up the land use pattern will be as follows:

| Type                               | Proposed Land Use |                 |          | Land use at End of Mine Life |                 |          | Land Use (Post Closure) |             |         |              |             |              |          |
|------------------------------------|-------------------|-----------------|----------|------------------------------|-----------------|----------|-------------------------|-------------|---------|--------------|-------------|--------------|----------|
|                                    | Proposed in Ha    |                 |          | (End of Mine in Ha)          |                 |          | Agricul tural Land Land | Planta tion | Wat er  | Publi c/     | Forest Land | Undistu rbed | Total    |
|                                    | Forest Land       | Non Forest Land | Total    | Forest Land                  | Non Forest Land | Total    |                         |             | Body    | Comp any Use | (Retur ned) |              |          |
| Excavation Area                    | 447.3308          | 196.4292        | 643.7600 |                              |                 |          |                         |             |         |              |             |              | 0.0000   |
| Backfilled Area                    |                   |                 | 0.0000   | 371.7600                     | 151.8600        | 523.6200 | 51.1000                 | 107.2300    |         |              | 371.7600    |              | 523.6200 |
| Excavated Void                     |                   |                 | 0.0000   | 75.5708                      | 44.5692         | 120.1400 |                         |             | 44.5692 |              | 75.5708     |              | 120.1400 |
| Without Plantation                 |                   |                 | 0.0000   |                              |                 |          |                         |             |         |              |             |              | 0.0000   |
| Top Soil Dump                      |                   | 6.5300          | 6.5300   |                              | 6.5300          | 6.5300   |                         | 6.5300      |         |              |             |              | 6.5300   |
| External Dump /surface dump        |                   |                 | 0.0000   |                              |                 |          |                         |             |         |              |             |              | 0.0000   |
| Safety Zone                        | 7.7800            | 3.0600          | 10.8400  | 7.7800                       | 3.0600          | 10.8400  |                         | 3.0600      |         |              | 7.7800      |              | 10.8400  |
| Haul road between quarries         |                   | 17.1300         | 17.1300  |                              | 17.1300         | 17.1300  |                         | 17.1300     |         |              |             |              | 17.1300  |
| Road Diversion                     |                   | 3.3100          | 3.3100   |                              | 3.3100          | 3.3100   |                         |             |         | 3.3100       |             |              | 3.3100   |
| Diversion / Below River Nala/Canal | 0.0000            | 0.0000          | 0.0000   |                              |                 |          |                         |             |         |              |             |              | 0.0000   |
| Settling Pond                      |                   | 0.0400          | 0.0400   |                              | 0.0400          | 0.0400   |                         |             |         | 0.0400       |             |              | 0.0400   |
| Road & Infrastructure area         |                   | 18.4700         | 18.4700  |                              | 18.4700         | 18.4700  |                         | 17.8400     |         | 0.6300       |             |              | 18.4700  |
| Railway Station Area               |                   | 0.0000          | 0.0000   |                              |                 |          |                         |             |         |              |             |              | 0.0000   |
|                                    |                   | 4.8900          | 4.8900   |                              | 4.8900          | 4.8900   |                         |             |         | 4.8900       |             |              | 4.8900   |

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| Type                                | Proposed Land Use |                 |                 | Land use at End of Mine Life |                 |                 | Land Use (Post Closure) |                 |                |                |                |               |                 |
|-------------------------------------|-------------------|-----------------|-----------------|------------------------------|-----------------|-----------------|-------------------------|-----------------|----------------|----------------|----------------|---------------|-----------------|
|                                     | Proposed in Ha    |                 |                 | (End of Mine in Ha)          |                 |                 | Agricultural Land       | Plantation      | Water          | Public         | Forest Land    | Undisturbed   | Total           |
|                                     | Forest Land       | Non Forest Land | Total           | Forest Land                  | Non Forest Land | Total           |                         |                 | Body           | Comp any Use   | (Returned)     |               |                 |
| Drains.                             |                   | 0               | 0               |                              | 0               | 0               |                         |                 |                | 0              |                |               | 0               |
| Embankment.                         |                   | 3,560           | 3,560           |                              | 3,560           | 3,560           |                         |                 |                | 3,560          |                |               | 3,560           |
| Green Belt.                         |                   | 3,060           | 3,060           |                              | 3,060           | 3,060           |                         | 3,060           |                |                |                |               | 3,060           |
| Water Reservoir Near Pit            |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| UG Entry.                           |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| Undisturbed / Mining Rights for UG. |                   | 3,265           | 3,265           |                              | 3,265           | 3,265           |                         |                 |                |                |                | 3,265         | 3,265           |
| Resettlement.                       |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| Pit Head Power Plant                |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| Water Harvesting                    |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| Agricultural Land                   |                   |                 | 0.000           |                              |                 | 0               |                         |                 |                |                |                |               | 0.000           |
| <b>Total</b>                        | <b>455.108</b>    | <b>259.7445</b> | <b>714.8553</b> | <b>455.108</b>               | <b>259.7445</b> | <b>714.8553</b> | <b>51.1600</b>          | <b>148.3200</b> | <b>44.5692</b> | <b>12.4300</b> | <b>455.108</b> | <b>3,2653</b> | <b>714.8553</b> |

## **OBJECTIVE OF THE SCHEME**

The main objective of the present scheme is to fulfill the **Condition No XVII (C)** which provides for **preparation of a plan for construction of Check Dams, Retention/Toe walls etc. to arrest sliding down of the excavated material along the contour in accordance with the approved scheme.** The different steps proposed to be adopted are as under:

- To prevent erosion of sediment due to surface runoff.
- To prevent of obstruction of natural water sources.
- To complete construction activities efficiently before surface soil is exposed.
- To prevent overflow of eroded soil from the mining areas to the natural streams and habitations.

## **7. PROPOSED METHODOLOGY**

  
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To achieve the above objectives, it has been proposed to take up structural works for soil and water conservation. In this Scheme, considering the topography and contours of the lease area, emphasis has been given to arrest sliding down of excavated materials along the contour by constructing check dams, retention / toe walls at specified locations within the mining lease. Locations have been properly selected within the leasehold and plans are listed in the following tables & maps.

  
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a) **The Salient features of the drainage management plan/scheme**

The overall drainage Planning has been made in such a manner which follows the existing drainage pattern the block area in order to prevent silt and sediments, a number of measures have been proposed.


The major part of the mining activities is confined to the central part of the lease hold area. Runoff water near the dump area will be channelized by garland drain so that solid waste and the force of run-off which will be restricted by a loose boulder structure and settling tank.

b) **The drainage pattern of overburden dump**

The runoff water will flow through the dump surface along the bund which will be developed as the edge of the dump . The dump surface needs to be terraced so that runoff can flow smoothly to meet the garland drain at the end for proper flow of water. Finally, the water will flow to the settling pit which. After settling down, over flow water will go through weep holes of retaining wall & finally join the garland drain. Loose boulder structures have been proposed in the garland drain of Dumps which will help to arrest the solid waste intermittently. The rain water from proposed dumps will drain down to the garland drain of proposed dumps which will help to arrest the solid waste by means of boulder structures across the garland drain as well as settling pits.

**Slope of the Proposed Dump**

Proposal had been given for waste generation from the proposed quarry and subsequent dumping on Dump site during the plan period as per approved scheme of mining. Dumping for the initial 6 years (the year from the commencement of production) has been planned in the eastern side of the block. About 80.63 MBCM of Overburden will be dumped temporarily within the coal bearing area of the block. Height of the dump will remain 60 meter on average with 30 meter height in each tier. Concurrent backfilling will commence from 9th year .Re-handling of the temporary surface Dump will commence from 9th year. Re-handling will continue for 13 years with capping of re-handling volume to 8.4 Mcum/Year. At the end of the mine life, there will be no external dump. The slope of the temporary dump will be maintained at an angle of 28°. The height of terraces of dump will be 10-12 m.

  
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**c) Management**

Re-treating fashion will be adopted to dump the total waste material generated during planned period. Two (2) terraces will be formed in the proposed dump.

Each terrace will have inward slope. The terrace will be connected to the garland drain outside the periphery of the dump. Each terrace will have a provision of berms at the outer end to reduce gully formation due to rain water wash offs.

To control erosion in the proposed waste dumps, regular compaction, development of terraces are proposed to be done. Also, the retaining wall and garland drain for the proposed waste dump will be constructed to arrest wash-offs from the dump. It is proposed to construct both the retaining wall and garland drain at the end of 5<sup>th</sup> year plan period. No proposal has been given for the rehabilitation of the dump during planned period as it is a temporary Dump.

**8. MEASURES ALREADY ADOPTED**


There is no Biological and Structural measures exist. It is a fresh mining lease and no mining activities have been taken place so far.

**9. MEASURES PROPOSED**

Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. At the end of the mine life, there will be no external dump. As there will be no dump, hence plantation along the slope of the temporary dump has not been taken into consideration. The details of proposed mitigative measures to minimize soil erosion and choking of streams in Pachwara South Coal Block of M/s Neyveli Uttar Pradesh Power Limited are given below:

**a. Structural Measures**

Vegetative means of erosion control are the most feasible and economic measures. However, as the pressure on land is increasing, it is necessary to bring even highly eroded land underutilization. In these lands, vegetative measures are not adequate to keep down the erosion. Some structural measures are required to be taken before vegetative measures are adopted. Structural measures, therefore, serve as supplementary to vegetative measures. The objective behind building mechanical structures is to reduce the degree and length of the slope, reducing run-off and consequently reducing soil erosion.

  
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### **i) Plan for Construction of Loose Boulder Structure**

After studying the topography and the drainage pattern it has been found that there are 10 spots where the LBCD required and accordingly it has proposed to construct **30** nos. of loose boulder structure of 4m span across the proposed garland drain along the dumps & in phase-2, settling pits will help in stabilization of silt & sediment as well as prevention of soil erosion & enrichment of vegetation & greenery development.



*Loose Boulder Structures*

### **ii) Plan for Construction of Garland drain**

A shallow trench (2.0 m wide x 1.50m deep) will be dug for storage of runoff accumulated for draining surface water before it is released to the agriculture land or natural water course. Details of proposed Garland drain **4830mt** shall be constructed during the ensuing seven years period with location is shown in the map.

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*Garland Drain around Waste Dump*

### iii) Construction of Retaining wall

A retaining wall is a structure designed and constructed to resist the lateral pressure of soil when there is a change in ground elevation that exceeds the angle of repose of the soil. The Retaining walls are proposed for construction over 4850mt. Also, there is a provision for maintenance of the retaining wall for the next 4 years.



*Details of Retaining walls*

### iv) Terracing of OB Dump Slope

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It is proposed to construct berm & terraces over a length of 2745mt on the proposed temporary dumps considering the volume of OB materials & the area

earmarked for dumping. The slope of individual terrace should be within the permissible range considering the angle of repose of the soil and space available, thereby maintaining the angle of repose at less than  $28^{\circ}$ . The terracing will be done through the internal resources by deploying the operating mining equipment. All these operations will be carried out after sufficient deposition of OB. When OB dump will partially mature, the work will be executed.




*Terracing of OB Dumps*

**v) Plan for Construction of Settling Tanks**

It is a process that involves separation of solid material from slurry. Sometimes, this process is called sedimentation. When waste water is treated, a large quantum of materials is filtered out of the liquid by physical barriers. Even then, the water will contain some solids which need to be removed. A settling tank is proposed to be used to protect the surface water. It has been proposed to construct 1 no. of settling tank. Details of proposed 1 no. of settling Tanks are shown in the map.

**vi) De-siltation**

The de-silting works of the settling tank will be taken up at regular intervals to prevent sedimentation and choking of streams. This de-silting of settling tank will provide space and base to hold the sediment laden runoff thereby allowing settling and clear water to flow down. This de-silting work will be preferably undertaken once in a year before & after monsoon. The implementation of the plans will be site specific in nature depending upon the severity of the sedimentation and choking of

  
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10. **INSPECTION, MONITORING AND EVALUATION**

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from State Forest Department is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

11. **MOTIVATION OF PEOPLE:**

The villagers of the adjoining villages, are to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

12. **EXECUTING AGENCY**

The works in the present Scheme shall be executed by the User Agency in consultation with State Forest Department. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.

13. **REQUIREMENT OF FUNDS**

The financial forecast for construction of Check Dams, Retention/ Toe Walls to arrest sliding down of the excavated material along the contour by Construction of Check Dam, Retaining wall, Catch Drain, Settling Tank and Loose Boulder Structure of 4m span has already been provided in the Scheme for **Mitigative measures to minimize soil erosion and choking of streams** as per Condition No. XVII(a) of Stage-I approval granted by MoEF in their letter Dt.11.02.2011. The financial forecast of the project has been furnished in the table below:

  
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**FINANCIAL FORECAST OF THE PROJECT (714.8553 HA.) Wage Rate Rs.**

| Sl. No.   | Description of the Work  | Fund Required (in Rs.)   |
|-----------|--|--|
|           | <b>Total</b>   | The financial forecast has already been provided in the earlier scheme prepared in compliance with Condition No. XVII(a) |
| <b>1.</b> | <b>Structural Measures</b>   |  |
| A.        | 30 nos. of Loose Boulder Structure of 4mt span @ Rs. 43577per each                     |  |
| B.        | Construction of Garland drain over a length of <b>4830</b> mt @ Rs. 488 per RMT        |  |
| C.        | Construction of retaining wall over <b>4850</b> mt @ Rs1910 per RMT                    |  |
| D.        | Terracing of OB dump over a length of <b>2745mt.</b> @ Rs. 817 per RMT                 |  |
| E.        | Construction of <b>1</b> no. of settling tank @ Rs 14612 per each                      |  |
|           | <b>Total</b>   |  |
| 2.        | De-siltation work for Garland drain, settling pond and check dam twice in a year on LS |  |
| 3.        | Maintenance of retaining walls   |  |
|           | <b>Sub Total</b>   |  |
| 4.        | 15% of the total cost for motivation of VSS / People involved                          |  |
|           | <b>Total</b>   |  |
|           | <b>Price escalation @ 20%</b>  |  |
|           | <b>GRAND</b>   |  |
|           | <b>TOTAL</b>   |  |

*M/s Neyveli Uttar Pradesh Power Limited do hereby undertake to execute the item of works mentioned in this scheme in a phased manner at the project cost.*

*For Neyveli Uttar Pradesh Power Ltd.*

  
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**Scheme  
For**

**STABILIZE THE OVERBURDEN DUMPS BY  
APPROPRIATE GRADING/BENCHING SO AS  
TO ENSURE THAT THAT ANGLES OF REPOSE  
AT ANY GIVEN PLACE IS LESS THAN 28°**

**in compliance**

**with**

**Condition No.XVII (d) of  
Stage-I approval granted vide  
Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**

**within Pachwara South Coal Block**

**of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

**Jharkhand.**



**GOTTU RAMESH**

**General Manager/ Project Head  
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**Satwik, I.F.S.  
Divisional Forest Officer  
Dumka Forest Division, Dumka**



**SCHEME FOR STABILIZE THE OVERBURDEN DUMPS BY APPROPRIATE GRADING/BENCHING SO AS TO ENSURE THAT THE ANGLES OF REPOSE AT ANY GIVEN PLACE IS LESS THAN 28°**

**1. INTRODUCTION**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act 1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No.XVII(d) for stabilization of Over burden dumps by appropriate grading/benching so as to ensure that the angle of repose at any given place is less than 28°.**


**1. LOCATION**

Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

Latitude: 24° 29' 57.404" N-24° 31' 46.956" N

Longitude: 87° 27' 22.010" E-87° 29' 56.150" E

The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area

  
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near the site and well connected with both Dumka and Pakur (district headquarters) through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur road respectively.

The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur. The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.

## 2. TOPOGRAPHY

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

## 3. SOIL TYPE

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800  $\mu\text{mho/cm}$  are considered as normal nature of soil. No samples of the area have crossed EC values 800  $\mu\text{mho/cm}$ , and thus almost all the soil samples are found

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to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.

#### 4. CLIMATE

The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above 42 degree C. As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about 7degree C. While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold. The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about 1316.8 mm (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

#### 5. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala (7.5km in SW) & Tirpatia nala (9km in S) flows within the 10km radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around 4m. Highest flood level (HFL) of Bansloi River in this part is 97-meter AMSL as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed. Surface-water yield depends primarily on inflows and storage.

The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7

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years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

### **EXISTING VEGETATION**

The vegetation of the applied area is composed of Arjun (*Terminalia Arjuna*), Sisham (*Dalburgia sisoo*), Asan (*Terminalia Tomentosa*), Aam (*Mangifera indica*), Jamun (*Syzygiumcumini*), Kendu (*Diasporus Melanoxylon*), Baans (*Bamboo*), Kurum, Mahua (*Madhucaindica*), Karam (*Adina cordifolia*), Neem (*Azadirachta Indica*), Sagwan (*Tectona Grandis*) Acacia, Awla etc. **Sal (*Shorea robusta*)** is the pre-dominant species.

### **6. Waste Generation**

Proposal had been given for waste generation from the proposed quarry and subsequent dumping on Dump site during the plan period as per approved scheme of mining. Dumping for the initial 6 years (the year from the commencement of production) has been planned in the eastern side of the block. About 80.63 MBCM of Overburden will be dumped temporarily within the coal bearing area of the block. Height of the dump will remain 60 meters on average with 30-meter height in each tier. Concurrent backfilling will commence from 9th year. Re-handling of the temporary surface Dump will commence from 9th year. Re-handling will continue for 13 years with capping of re-handling volume to 8.4 Mcum/Year. At the end of the mine life, there will be no external dump. The slope of the temporary dump will be maintained at an angle of 28°. The height of terraces of dump will be 10-12 m.

### **The salient features of OB / waste dump management practices**

1. The total waste generation will be will be stacked on the proposed temporary dump in dry state.
2. Retaining wall and garland drain will be provided around the proposed dumps. Precautionary measures to be adopted during waste disposal are as follows: -
  - i) The ultimate dump slope to be maintained around 28°.
  - ii) Terrace should have inward slope.
  - iii) The dump edge will be covered with bund. A garland drain will be constructed adjacent to proposed dump, following the contour. The drainage pattern should be such that the runoff will be channelized to the garland drain outside the periphery of dump.

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## **7. THE OBJECTIVES OF THE PROPOSED PLAN**

The objectives of the proposed plan are as follows:

1. To fulfill the stipulation i.e., Condition no. XVII (d) imposed in the Stage-I approval granted dated 18.09.2024 to prepare plan for **Stabilization of Over burden dump by appropriate grading/benching so as to ensure that angle of repose at any given place is less than 28°**.
2. To adopt proper Management and scheduling of overburden materials so as to minimize external dumping.
3. To provide methodologies and implement the proposed works in time bound manner to prevent slope failures there by providing stable OB dump slopes.
4. To stabilise the over burden dumps by plantation.
5. To prevent overflow of eroded soils from the fines, OB dump areas leading to siltation in the streams natural streams.

In order to stabilize over burden dump, the user agency will implement some mitigative measures which are given as below:

## **8. MEASURES ALREADY ADOPTED**

There is no Biological and Structural measures exist. It is a fresh mining lease and no mining activities have been taken place so far.

## **9. PROPOSED METHODOLOGY**

To achieve the above objectives, it has been proposed to take up both biological and structural works for soil and water conservation. The vegetative measures are to be adopted mostly in the Northern part of the lease area whereas the structural works are suggested in the lower reaches such as in the garland drain around O.B. dumps. The overburden generated in the initial 6 years of mining shall be dumped in the eastern part of the Block. Height of the dump will remain 60 meter on average with 30 meter height in each tier. Concurrent backfilling will commence from the 7th year from production commencement. Re-handling of the surface dump of the eastern part will commence from 7th year of the production commencement and proposed to be completed by 19th year from commencement of production. At the end of the mine life, there will be no external dump and this area will go for mining. The following activities are proposed to be taken up to mitigate soil erosion and choking of streams:

  
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The methods to be adopted for stabilization of OB dumps are as follows:

**a. Structural measures**


- a. Vegetative means of erosion control are the most feasible and economic measures. However, as the pressure on land is increasing, it is necessary to bring even highly eroded land underutilization. In these lands, vegetative measures are not adequate to keep down the erosion. Some structural measures are required to be taken before vegetative measures are adopted. Structural measures, therefore, serve as supplementary to vegetative measures. The objective behind building mechanical structures is to reduce the degree and length of the slope, reducing run-off and consequently, reducing soil erosion.

**i) Plan for Construction of Loose Boulder Structure**

After studying the topography and the drainage pattern it has been found that there are 10 spots where the LBCD required and accordingly it has proposed to construct 30 nos. of loose boulder structure of 4m span across the proposed garland drain along the dumps & in phase-2, settling pits will help in stabilization of silt & sediment as well as prevention of soil erosion & enrichment of vegetation & greenery development.



*Loose Boulder Structures*

  
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**ii) Plan for Construction of Garland drain**

A shallow trench (2.0 m wide x 1.50m deep) will be dug for storage of runoff accumulated for draining surface water before it is released to the agriculture land or natural water course. Details of proposed Garland drain **4830mt** shall be constructed during the ensuing seven years period with location is shown in the map.



*Garland Drain around Waste Dump*

**iii) Construction of Retaining wall**

A retaining wall is a structure designed and constructed to resist the lateral pressure of soil when there is a change in ground elevation that exceeds the angle of repose of the soil. The Retaining walls are proposed for construction over **4850mt**. Also, there is a provision for maintenance of the retaining wall for the next 4 years.



*Details of Retaining walls*

  
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#### iv) Terracing of OB Dump Slope

It is proposed to construct berm & terraces over a length of 2745mt on the proposed temporary dumps considering the volume of OB materials & the area earmarked for dumping. The slope of individual terrace should be within the permissible range considering the angle of repose of the soil and space available, thereby maintaining the angle of repose at less than  $28^{\circ}$ . The terracing will be done through the internal resources by deploying the operating mining equipment. All these operations will be carried out after sufficient deposition of OB. When OB dump will partially mature, the work will be executed.



*Terracing of OB Dumps*

#### v) Plan for Construction of Settling Tanks

It is a process that involves separation of solid material from slurry. Sometimes, this process is called sedimentation. When waste water is treated, a large quantum of materials is filtered out of the liquid by physical barriers. Even then, the water will contain some solids which need to be removed. A settling tank is proposed to be used to protect the surface water. It has been proposed to construct 1 no. of settling tank. Details of proposed 1 no. of settling Tanks are shown in the map.

#### vi) De-siltation

The de-silting works of the settling tank will be taken up at regular intervals to prevent sedimentation and choking of streams. This de-silting of settling tank will provide space and base to hold the sediment laden runoff thereby allowing settling and clear water to flow down. This de-silting work will be preferably undertaken once in a year before & after monsoon. The implementation of the plans

will be site specific in nature depending upon the severity of the sedimentation and

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## **10. INSPECTION, MONITORING AND EVALUATION**

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from State Forest Department is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

## **11. MOTIVATION OF PEOPLE:**

The villagers of the adjoining villages, are to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

## **12. EXECUTING AGENCY**

The works in the present Scheme shall be executed by the User Agency in consultation with State Forest Department. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.

## **13. REQUIREMENT OF FUNDS**

The financial forecast for construction of Stabilization of over burden Dumps, Retention/ Toe Walls to arrest sliding down of the excavated material along the contour by means of, Construction of Retaining wall, garland drain, Settling Tank and Loose Boulder Structure of 4m span has already been provided in the Scheme for mitigative measures to minimize soil erosion and choking of streams as per condition No. (xvii) (a) of Stage-I approval granted by MoEF & CC in their letter dt. 18.09.2024.

*For Neyveli Uttar Pradesh Power Ltd.*

  
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**Scheme**

**For**

**TOP SOIL MANAGEMENT**

**in compliance**

**with**

**Condition No.XVII (e) of  
Stage-I approval granted vide**

**Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**


**within Pachwara South Coal Block**

**of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

**Jharkhand.**

  
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## **SCHEME FOR TOP SOIL MANAGEMENT**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No.XVII (e) for preparation and implementation of a plan containing appropriate mitigative measures to preserve the top soil.**


### **1. LOCATION**

Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

Latitude: 24° 29' 57.404" N-24° 31' 46.956" N

Longitude: 87° 27' 22.010" E-87° 29' 56.150" E

The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area near the site and well connected with both Dumka and Pakur (district headquarters) through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur road respectively.

  
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The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur. The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.


## **2. TOPOGRAPHY**

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

## **3. SOIL TYPE**

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800  $\mu\text{mho/cm}$  are considered as

  
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normal nature of soil. No samples of the area have crossed EC values 800µmho/cm, and thus almost all the soil samples are found to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.


#### 4. CLIMATE

The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above 42 degree C. As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about 7degree C. While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold. The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about 1316.8 mm (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

#### 5. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala (7.5km in SW) & Tirpatia nala (9km in S) flows within the 10km radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around 4m. Highest flood level (HFL) of Bansloi River in this part is 97-meter AMSL as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed. Surface-water yield depends primarily on inflows and storage.

The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum

  
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water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7 years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

#### **6. PLAN FOR TOP SOIL MANAGEMENT**

This Topsoil Management Plan provides description of the soil stripping and stockpiling procedures to minimize top soil degradation and maximum availability of suitable soil for future rehabilitation within the 714.8553 hectares mining lease of Pachwara South Coal block of M/s Neyaveli Uttar Pradesh Power Limited. Topsoil is to be stripped in areas proposed to be disturbed, i.e., 643.76 Hect. Of virgin forest land Non-Forest land for mining operation. A comprehensive top soil management plan has been prepared keeping in view of the conservation, regeneration and afforestation in and around the site where top soil will be stored.

In non-mineralized area also, there is existence of very thin layers of top soil say 5 to 10 cm varying from site to site, which is very difficult to slice down and is stored separately for use during future reclamation. However, grass seed will be broadcasted over this area to prevent erosion of the top soil.

#### **7. OBJECTIVES**

The objectives of Top soil management to be executed are as follows:

- To fulfill the stipulation (Condition no. XVII(E) i.e strict adherence to the top soil management imposed by the Ministry of Environment & Forests, vide their letter dated 18.09.2024 during approval of Stage-I forest clearance.
- To identify top soil resources, and to follow stripping guidelines for optimum recovery.
- To identify stockpile locations and dimensions.
- To identify surface areas suitable for stripping (to minimize over clearing).
- To manage and conserve the top soil reserves.
- To provide sufficient stable topsoil material for rehabilitation work of dumps, back filled areas and degraded lands.

  
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## 8. PLAN FOR MANAGEMENT OF TOP SOIL TO BE GENERATED FROM MINING

The top soil inside 714.8553 hectares of ML area is scanty and present in extremely thin layer. Whatever top soil is available will be excavated during the development of unbroken patch within the mining lease. Precautionary measures will be taken so that this valuable resource is not wasted. This excavated top-soil will be utilized for concurrent plantation works in the mine as per this plan. Some of the top soil will be stored temporarily until it can be used for plantation works / dump reclamation. The details of Top soil management are given below.

| Top Soil Management-(Including Action Plan for Top Soil Management) |                    |         |                             |                           |                                   |                                 |                         |                |
|---|--------------------|---------|-----------------------------|---------------------------|-----------------------------------|---------------------------------|-------------------------|----------------|
| (All figures are Cumulative and in MM3)                             |                    |         |                             |                           |                                   |                                 |                         |                |
| Stage/ Year   |                    |         | Top Soil removal plan "MM3" | Top Soil Used "MM3"       |                                   |                                 |                         | Total Utilised |
|   |                    |         |                             | Spreading over Embankment | Spreading over the Back fill Area | Spreading over the OB Dump Area | Used in Green Belt Area |                |
| Up to year 2019-2020  |                    |         | -                           |                           |                                   |                                 |                         |                |
| Yr 1  | Development Period | 2020-21 | -                           |                           |                                   |                                 |                         |                |
| Yr 2  |                    | 2021-22 | -                           |                           |                                   |                                 |                         |                |
| Yr 3  | Y-1                | 2022-23 | 0.01                        | 0.01                      | -                                 | -                               | -                       | 0.01           |
| Yr 5  | Y-3                | 2024-25 | 0.03                        | 0.03                      | -                                 | -                               | -                       | 0.03           |
| Yr 7  | Y-5                | 2026-27 | 0.09                        | 0.03                      | -                                 | -                               | -                       | 0.09           |
| Yr 8  | Y-6                | 2027-28 | 0.15                        | 0.03                      | -                                 | -                               | -                       | 0.15           |
| Yr 12   | Y-10               | 2031-32 | 0.39                        | 0.03                      | 0.22                              | 0.14                            | -                       | 0.39           |
| Yr 17   | Y-15               | 2036-37 | 0.69                        | 0.03                      | 0.33                              | 0.33                            | -                       | 0.69           |
| Yr 22   | Y-20               | 2041-42 | 0.99                        | 0.03                      | 0.58                              | 0.38                            | -                       | 0.99           |
| Yr 27   | Y-25               | 2046-47 | 1.38                        | 0.03                      | 1.05                              | 0.30                            | -                       | 1.38           |
| Yr 32   | Y-30               | 2051-52 | 1.71                        | 0.03                      | 1.25                              | 0.43                            | -                       | 1.71           |
| Yr 38   | Y-36               | 2057-58 | 1.71                        | 0.03                      | 1.68                              | -                               | -                       | 1.71           |
| POST CLOSURE  |                    |         |                             |                           |                                   |                                 |                         |                |
| Yr 41   | Y-39               | 2060-61 | 1.71                        | 0.03                      | 1.68                              | -                               | -                       | 1.71           |

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This Topsoil Management Plan has provision for soil stripping and stockpiling procedures to minimize top soil degradation and maximize availability of suitable soil for future rehabilitation.

#### **9. FUTURE TOP SOIL GENERATION FROM MINING ACTIVITIES**

Soil studies have shown that the average thickness of topsoil in the unbroken areas will be around 5 cm - 10 cm. The quantity of topsoil to be stripped in a phased manner from the site will be used utilized in the Embankment in the initial years, however, will be spread over the reclaimed area in later phases during the progressive and final closure of the mine.

Prior to stripping, the area will be cleared by removing the unwanted growth. The proposed procedure for soil handling is given below which includes soil handling measures in order to optimize retention of soil characteristics (in terms of nutrients and micro-organisms) conducive to growth of plant.

#### **10. METHODOLOGY**

In accordance with the above objective of providing sufficient stable soil material for rehabilitation and to optimize soil recovery, the following strategies have to be followed:

- Topsoil stockpiles area is 6.53 Ha.
- Stripping off the topsoil by dozers rather than scrapers to minimize structural degradation;
- Construction of stockpiles with a "rough" surface condition to reduce erosion hazard.
- Improvement of drainage and promotion of revegetation.
- Revegetation of stockpiles with appropriate fertilizer etc, to maintain soil organic matter levels, soil structure and microbial activity and maximize the vegetative cover of the stockpile, and
- To utilize stripped top soil as soon as possible for rehabilitation in a phased manner in accordance with the rehabilitation plan as prescribed in Mining Plan.

  
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#### 11. PLAN FOR MANAGEMENT OF EXCAVATED TOPSOIL

To minimize the detrimental effects of long-term storage of topsoil in stockpiles, the following procedures will be ensured prior to stripping activities.

Appropriate delineation of areas for storage of top soil: 6.53 Ha area has been planned & accordingly the area is demarcated for storage of top soil within Pachwara South Coal Block of M/s Nayeveli Uttar Pradesh Power Limited (**Copy of the Plan enclosed**). In the land use pattern of the approved Mining Plan, the area has been earmarked for storage of top soil.

- Dry stone wall to a length of 1210mt. will be constructed around the stockpile followed by grass seeding on the inner side. The cost norm of Toe wall construction has been provided in **Annexure-2**.
- The topsoil stripping will be completed using bulldozers and tippers of smaller capacity. In areas where the topsoil is relatively thin, the topsoil will be removed in such a way to prevent mixing of topsoil and sub soils.
- Stockpiles will have erosion control measures by constructing loose boulder wall with cement sand patching.
- Permanent measures include establishment of vegetation (bushes & shrubs) and broadcasting of seeds of local shrubs / grasses will mitigate soil erosion and dust emissions. The total area for sowing of grass seeds comes to 1.98 ha. The cost norm of Grass seedling has been provided in **Annexure-1**.
- Prior to use of the topsoil for reclamation, sample of the topsoil will be collected and chemical analysis including nitrogen, organic content and pH value will be done.
- Re-spreading of topsoil will be undertaken in the areas requiring reclamation, so as to approximate pre-plantation thickness of 2 -3 cm by manual means.

#### 12. PLAN FOR CONSERVATION OF TOP SOIL IN BARREN LANDS

The forest land of the region is prone to soil erosion as the entire landscape is affected due to mining activity in the vicinity. Soil erosion problem varies from area to area within the lease, depending on the topography, soil types, vegetation, and management interactions of the catchment. Hence, it is very important to control erosion

  
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of top soil from the area, which will result in enhancement of in-situ moisture conservation by enrichment of water table profile for more availability of water so that the top soil is conserved for supporting the growth of trees.

### 13. TOP SOIL CONSERVATION PLAN

The Top soil will be collected and stored preferably at one place and the top surface will be broadcasted with grass seeds so that a mat of grass turf is made over the surface of the top soil and this will prevent erosion of the top soil by rain water and/or weathering conditions like blow of wind.

#### **TOP SOIL CONSERVATION PLAN**

| Area from which top soil will be collected | Topsoil Spreading on Green Belt/Gap plantation area | Reclaimed mined out area |
|--|---|--------------------------|
| 643.76 Ha.                                 | 3.06 Ha.  | 523.62 HA.               |



CONSERVATION OF TOP SOIL THROUGH SOWING OF GRASS SEEDS.

  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
 Divisional Forest Officer.  
 Dumka Forest Division, Dumka



#### 14. INSPECTION, MONITORING AND EVALUATION

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from State Forest Department is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

#### 15. MOTIVATION OF PEOPLE:

The villagers of the adjoining villages, are to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

#### 16. EXECUTING AGENCY

The works in the present Scheme shall be executed by the User Agency in consultation with State Forest Department. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.

#### 17. REQUIREMENT OF FUNDS

The total cost of implementation of measures for Top Soil Management will be Rs-199659415/- (**Rupees Nineteen Crore, Ninety-Six Lakhs, Fifty nine thousand four hundred and fifteen**) only. This budget will be subject to increase in amount considering the increase in material cost and labour charges.

  
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**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

### TOTAL COST OF TOP SOIL MANAGEMENT


| Sl. No. | Description of the work  | Funds Required (in ₹)  |
|---------|--|------------------------|
| 1.      | <p>Unbroken / Virgin area from where top soil can be collected =643.76 Ha.</p> <p>A. Stripping cost:-0.5ha./hr. @ ₹ 4071.00<br/>Therefore – 643.76 Ha. Cost =1288 hrs. +2 hrs. marching<br/>=1290 hrs x Rs.4071.00= <b>5251590.00</b></p> <p>B. Loading &amp; Transportation cost from site to top soil stockpile comes to be=1710000 cubic mt (tonnage factor 1.6)=27,36,000 @ ₹ 50.00/Mt.=Rs.<b>136800000.</b></p> <p>C. Cost of levelling with 600 manpower @ ₹ 345 i.e. ₹ <b>207000</b></p> <p><b>Hence total cost A+B+C = Rs. 142258590</b></p> | 142258590.00           |
| 2.      | Cost for sowing of grass seeds over 1.98 ha @ ₹ 56084/ha.  | 111046.00              |
| 3.      | Cost for erection of 1210 mt dry toe wall around top soil stock pile @ ₹ 1910 RML  | 2311100.00             |
|         | <b>TOTAL :-</b>  | <b>144680736.00</b>    |
| 4.      | Inspection, Monitoring & Evaluation 15% of the total project cost.   | 21702110.00            |
|         | <b>TOTAL</b>   | <b>166382846.00</b>    |
|         | Price escalation @ 20%   | 33276569.00            |
|         | <b>Grand Total</b>   | <b>19,96,59,415.00</b> |

(Rupees Nineteen Crore, Ninety-Six Lakhs, Fifty nine thousand four hundred and fifteen) only

*M/s Neyveli Uttar Pradesh Power Limited do hereby undertake to execute the item of works mentioned in this scheme in a phased manner at the project cost.*

*For Neyveli Uttar Pradesh Power Ltd.*

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
 General Manager/Project Head,  
 PSCMP, NUPPL  
**G. RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)





**Scheme  
for**

**DE-SILTING OF VILLAGE TANKS AND OTHER WATER  
BODIES LOCATED WITHIN 05 KM FROM THE MINE  
LEASE BOUNDARY SO AS TO MITIGATE THE IMPACT  
OF SILTATION OF SUCH TANKS/ WATER BODIES**

**in compliance  
with**

**Condition No.XX of  
Stage-I approval granted vide  
Letter dt.18.09.2024**

**Minister of Environment, Forests and Climate Change(Forest  
Conservation Division)**

**for**

**Diversion of 455.1108 Hects of Forest Land for U/s-2 (ii) of F.C.  
Act'1980**

**within Pachwara South Coal Block  
of**

**M/S Neyveli Uttar Pradesh Power Limited.**

**Dist.Dumka**

**Jharkhand.**

  
**GOTTE RAMESH**  
General Manager/ Project Head  
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**SCHEME FOR DE-SILTING OF VILLAGE TANKS AND OTHER WATER BODIES  
LOCATED WITHIN 05 KM FROM THE MINE LEASE BOUNDARY SO AS TO  
MITIGATE THE IMPACT OF SILTATION OF SUCH TANKS/ WATER BODIES**

**1. INTRODUCTION**

Pachwara South Coal Block is the southernmost part of the Pachwara Coalfield in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The Block is allotted to Neyveli Uttar Pradesh Power Ltd. (NUPPL)- a joint venture of NLC India Limited and Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited vide, allotment order no 13016/26/2004-CA-I/CA-III(Pt) (Vol.II), Dated 03.10.2016 from Ministry of Coal, Government of India. The lease area is 714.8553 Ha within which forest area is 455.1108 Ha and non-forest area is 259.7445 Ha

Mining plan was approved By Ministry of Coal Vide No-34011/2/2020 Dated 11.11.2020. Environmental Clearance has been approved on 23.09.2024 with a maximum production capacity of 9 MTPA.

Further, Stage-I approval over 455.1108 ha. of Forest Land for U/s-2 (ii) of F.C. Act'1980 has been granted by MoEF vide their Letter dt.18.09.2024, wherein it has been stipulated as per **Condition No. (XX)**, to undertake **desilting of village tanks and other water bodies located within 05 km from the mine lease boundary so as to mitigate the impact of siltation of such tanks/water bodies.**


**2. LOCATION**

Pachwara South Coal block occupies the southernmost part of the Rajmahal Coal field in Dumka District, Jharkhand. Pachwara-Chirudih Sector lies in the western part of Pachwara basin. The block is situated at villages Chirudih, Kundapahari and Mahuldabar ,tehsil-Gopikander, Dist-Dumka of Jharkhand state. The block area covered in the Survey of India Toposheet No. G45V6 & G45V7 and bounded by coordinates:

Latitude: 24° 29' 57.404" N-24° 31' 46.956" N

Longitude: 87° 27' 22.010" E-87° 29' 56.150" E

The Block is well connected with Dumka, the district head quarter at a distance of around 36 km (aerial) and 52 km by road. Amrapara is the nearest semi-urban area near the site and well connected with both Dumka and Pakur (district headquarters)

  
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through black topped Dumka-Shahibganj Road and Amrapara- Maheshpur -Pakur road respectively.

The nearest railhead is Murarai and is situated at a distance of around 38 km (aerial) and 41 km by road from the Block and falls in between the block and district headquarter Pakur. The nearest public airport is situated at a distance of around 201 km by road (Aerial distance is around 111 km) from the block at Andal (Kazi Nazrul Islam Airport). Birsa Munda Airport at state Capital Ranchi is situated at a distance of around 330 km while Netaji Subhash Chandra Bose International Airport at Kolkata is situated at a distance of around 283 km from the project site. The altitude of the Block is ranges from 84 m to 185 m above MSL. The total mining lease hold area is 714.8553 Ha.

### 3. TOPOGRAPHY

The terrain in general, portrays a gently undulating topography with few isolated hillocks in the South central and South-western part. The main coal bearing area with subdued topography is skirted on the northern and southern sides by hills of basic volcanic rocks. The general elevation of the low ground straddles from about 82m (above MSL) towards northeast to about 188m (above MSL) towards south central with general ground slope from south to north towards Bansloi River, which acts as the northern boundary (Fig. No.C3-3).

A high-tension electrical line is also passing through the central part of the block. The block is also characterized by few ponds, first order seasonal streams, a Church and a School. Southern part of the block characterizes with some hillocks. Out of the total area of 714.8553 ha, 455.1108 ha are forest land.

### 4. SOIL TYPE

The soils of the study area have been developed mostly from massive granitic rocks and meta sedimentary formations of Precambrian age. These soils are brown in colour, medium textured, containing gravels, quartz, sand and ferruginous concretion. The pH of soil samples in the study area indicated that in agriculture land, the soil pH was slightly acidic and in the two forest land sites, the soil pH was more acidic in nature. Electrical conductivity, as the measure of current carrying capacity, gives a clear picture of the amount of soluble salts present in the soil. It plays a major role in the salinity of soils. There is a relation between electrical conductivity and salinity, i.e. lesser the EC value low will be the salinity value of soil and vice-versa. Electrical conductivity values within 800

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$\mu\text{mho/cm}$  are considered as normal nature of soil. No samples of the area have crossed EC values  $800\mu\text{mho/cm}$ , and thus almost all the soil samples are found to be suitable for agriculture. Soil textural form of the study area is sandy loam or silty loam in nature. The organic carbon content of the soil in terms of percentage collected from different sampling locations indicating variable organic matter content and decomposition rates.

## 5. CLIMATE

The area experiences tropical climate, which is hot & sub-humid. A dry and hot summer with temperatures often rises above normal. During summers, the mercury rises well above  $42^\circ\text{C}$ . As for the direction of the wind, it mostly blows from the west. The summers start from middle of March and lasts till the middle of June. Winters in the region marks the mercury dropping to about  $7^\circ\text{C}$ . While the day time is pleasingly cool, with the fall of even in temperature lowers further, making the nights chilly and cold. The winter starts from December and last till the month of February. Well-distributed rainfall between mid of June to mid of September marks the rainy season. The total rainfall on the average is about  $1316.8\text{ mm}$  (as per IMD 30 year's average data), of which 85% precipitation is during rainy season only.

## 6. DRAINAGE

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala ( $7.5\text{km}$  in SW) & Tirpatia nala ( $9\text{km}$  in S) flows within the  $10\text{km}$  radius of the study area. The ML area falls under the catchment of Bansloi River which flows along the northern boundary of the ML area. The maximum depth of Bansloi River is around  $4\text{m}$ . Highest flood level (HFL) of Bansloi River in this part is  $97\text{-meter AMSL}$  as per information obtained from the local public works department. The water yield of a watershed, i.e., the capacity of a water resource to serve as a long term water supply, may either be measured directly on a single outlet on the main stream or be calculated through empirical equations based on important physical properties of a particular watershed. Surface-water yield depends primarily on inflows and storage.

  
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The average water flow through Bansloi River is 60480 KLD. Whereas, the maximum water requirement for dust suppression, plantation and other purposes in the mining site which is planned to obtain from Bansloi River during initial 7 years is 1560 KLD, i.e. only 2.6% of the total river flow. Therefore, water intake from river Bansloi will not impact on the natural courses.

## **7.RAINFALL**

There is a wide variation of rainfall in the catchment area and around 10 kms radius of buffer zone of this mine. The average annual rainfall of this mine area is affected by steep hills, forest cover etc. The average maximum rainfall experienced in July and September every year.

| ANNUAL RAIN FALL IN DUMKA DISTRICT (1980-2010) |                      |                            |        |                            |
|--|----------------------|----------------------------|--------|----------------------------|
| SR.NO  | PARAMETERS           | DESCRIPTION OF THE SEASONS |        |                            |
| 1  | MONTHLY<br>AVG IN MM | WINTER (DEC TO FEB)        | MONTHS | TOTAL RAIN FALL (IN<br>MM) |
|  |                      |                            | DEC    | 10.1                       |
|  |                      |                            | JAN    | 5.3                        |
|  |                      |                            | FEB    | 11.1                       |
|  |                      |                            | TOTAL  | 8.9                        |
|  |                      | SUMMER (MAR TO MAY)        | MAR    | 21                         |
|  |                      |                            | APRIL  | 29                         |
|  |                      |                            | MAY    | 74.6                       |
|  |                      |                            | TOTAL  | 41.5                       |
|  |                      | MONSOON (JUNE TO SEPT)     | JUNE   | 224                        |
|  |                      |                            | JULY   | 304.2                      |
|  |                      |                            | AUG    | 307.3                      |
|  |                      |                            | SEPT   | 211.6                      |
|  |                      |                            | TOTAL  | 261.8                      |
|  |                      | POST MONSOON (OCT TO DEC)  | OCT    | 110.2                      |
|  |                      |                            | NOV    | 8.1                        |
|  |                      |                            | DEC    | 10.1                       |
|  |                      |                            | TOTAL  | 42.8                       |

## **8.FACTORS RESPONSIBLE FOR SILTATION**

Siltation is an inherent problem with ponds, lakes and almost all types of water reservoirs world over. Siltation occurs due to deposition or settling of soil eroded from the land mass, decaying fallen leaves, grass and other vegetative materials and decomposed organic materials settled on pond bottoms. Soil erosion may be attributed as the primary factor responsible for pond siltation in this area. Higher gradient and excess rainfall are the most common reasons of soil erosion. Erosion of soil occurs from the waste dumps, excavated areas and naturally denuded ground

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surface. However, looking into the current problem of siltation of the village ponds, the major factors are the surface runoff containing silt particles entering into the pond. As the age of the ponds increases, new layers of silt accumulate on the older ones and the silt layers become thicker. Finally the depth of the pond decreases and it loses its water storage capacity. At this time it needs to be de-silted to recover. The best practice against siltation is to de-silt the bottom of the pond at regular intervals as well as taking adequate preventive measures.

#### **9. SELECTION OF PONDS**

For the purpose as mentioned in Condition No.XX of the Stage-I approval letter, a survey of ponds within the buffer area of 5 Kms from the lease boundary was made. Topomap showing the location of ponds is enclosed as Plate No-1. ***After discussion with the Block Development Officer and Sarpanch of local, Gram panchayet, total 2 numbers of following government ponds will be selected for de-siltation within 5 km vicinity of the lease area.***

#### **10. POSSIBILITY OF SILTATION OF THE VILLAGE PONDS/WATER BODIES DUE TO MINING ACTIVITIES**

The core zone has couple of primary & secondary nalas which act as tributary of Bansloi river. Bansloi, the main surface run-off flowing from west to east, acts as the northern boundary of the lease area. Apart from Bansloi river & its tributaries on the north, there are other nalas like Banjhi amba nala (7.5km in SW) & Tirpatia nala (9km in S) flows within the 10km radius of the study area.

As far as village ponds in the proximity of the lease are concerned, it is observed that the identified village ponds are not affected from the surface runoff water carrying any silt from the lease area as these are located either beyond the Bansloi or at higher altitude from the ground RL of the Lease.

However, siltation in these identified village tanks may occur due to possible soil erosion outside the lease area beyond the sub watershed boundary. Hence de-silting of these village ponds may be considered in subsequent phases.

#### **11. METHODOLOGY**

It is proposed to carry out the total de-siltation of the selected ponds as above every five years during summer when the ponds shall dry up exposing the silts. The dried silt shall be removed manually or mechanically based on the ground

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condition. In case of mechanical removal of silt, small excavators such as back-hoe / small hydraulic shovels or pay loader, depending upon the quantity of silt accumulation shall be used.

The work shall comprise:-

- a) Total de-siltation in the five year period.
- b) Implementing preventive measures during the following four years to minimize re-siltation of the ponds.
- c) To prevent or slowdown future siltation, the embankment stabilization by grass turfing /stone pitching , plantation of suitable species and constructing bathing ghat is also included in the de-silting and improvement plan.

It is proposed that the ponds having accumulation of over 1000 m<sup>3</sup> shall be de-silted by mechanical means and the rest shall be handled manually. It is proposed to deploy one 0.9 m<sup>3</sup> back hoe with one 10 tonne tipper for de-silting of the pond in a period of two-three days. The machines shall be deployed in a planned manner to complete the work in a shortest time frame. Necessary advice of BDO, &Panchayat Sarpanch will be taken into account.

In case of smaller ponds, where the accumulation of silt is very small, the de-siltation operation shall be done manually by engaging sufficient manpower.

The ponds shall be allowed to dry up completely during the early summer i.e. during March and April followed by de-siltation in the above described manner.

**a) 1<sup>st</sup> Year Plan & Management:**

The first-year work shall also comprise the following preventive measures to minimize siltation.

- Providing embankment to the ponds where ever necessary.
- Strengthening the existing pond embankment to check external flow of surface run-off in to the pond.
- Regular removal of aquatic weed sand polythene bags /bottle thrown by villagers.
- Plantation of trees on the top of the embankment and stone pitching on the slopes to prevent bank erosion.
- Plantation of selected species like Bara, Aswatha, Lemon, Custard Apple, Guava, Papaya, Mango will be taken up.

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Divisional Forest Officer  
Dumka Forest Division





*Plantation of trees on the top of the embankment*

- b) **Subsequent 2 Years Plan and Management:** In the subsequent 2 years, the rate of siltation shall be negligible, which can be dealt by manual methods using the local labourers. This will also otherwise help in employment generation.
- c) **Preventive Measures & Maintenance:** It is essential to take up preventive measures in order to minimize re-siltation of the ponds. Activities like pond bank strengthening and stabilization by way of earth work with stone patching, grass seeding and plantation of appropriate species shall be taken up in the first year followed by their maintenance in successive four years.
- d) **Dewatering of village pond:** This will be carried out by engaging dewatering pump.

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Divisional Forest Officer,  
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- e) **De-silting:** After pumping out the water from the pond, silts are to be removed either manually by deploying labour or excavator & dumper combination.
- f) **Earthwork Excavation:** Wherever required, soil has to be removed for deepening the pond to increase water holding capacity of the pond.
- g) **Bathing Ghat(separately for men and women):** In the selected Ponds, separate arrangement will be made for bathing by male and female of the Villages. Since the villagers are conscious from mythological point of view, a Tulsi (Ocimumsanctum) Chaura (Platform) has also to be provided where the villagers after bath can offer water to Sun God. The Detailed estimate is enclosed as **Annexure-2**.



*Bathing Ghats*

- h) **Sitting Platform on the embankment of the Pond(s)** – In each Pond, a masonry platform will be provided where the villagers (age old persons and youth) can sit during summer evening. This platform will also serve the purpose of puja / karma.
- i) **Planting all along the embankment of the Pond** – According to availability of land all along the pond (s), plantation of Bela, Pipal, Champa, Baula etc. will be made to form a Green belt. This Green belt will also give an aesthetic view to the area and villagers can collect leaf, fruit, flower etc. for spiritual purposes.

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*Plantation along the Ponds*

## **12.INSPECTION AND MONITORING**

For successful implementation of the above Mitigative measures, intensive inspection and technical guidance from concerned technical wing is required. Sufficient fuel/ conveyance charges for technical experts shall be provided by the user agency for proper execution of these programmes.

## **13.MOTIVATION OF PEOPLE:**

Local Villagers will be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

## **14.EXECUTING AGENCY**

The works in the present Scheme shall be executed by the User Agency having specialized departments headed by qualified persons with outsourced man and machinery. To facilitate this, the user agency shall establish its own executing and supervision cells along with required infrastructural facilities. In order to maintain the quality of work, in-house supervision through competent personnel shall be provided. The entire work shall be carried out in co-ordination with the Forest Department.

**GOTTE RAMESH**  
General Manager/ Project Head  
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## REQUIREMENT OF FUNDS

The total cost of this Scheme for de-silting and improvement of the selected ponds will be borne by the User Agency.

*M/s Neyveli Uttar Pradesh Power Limited do hereby undertake to execute the item of works mentioned in this scheme in a phased manner at the project cost.*

*For Neyveli Uttar Pradesh Power Ltd.*

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Forest Division, Dumka

  
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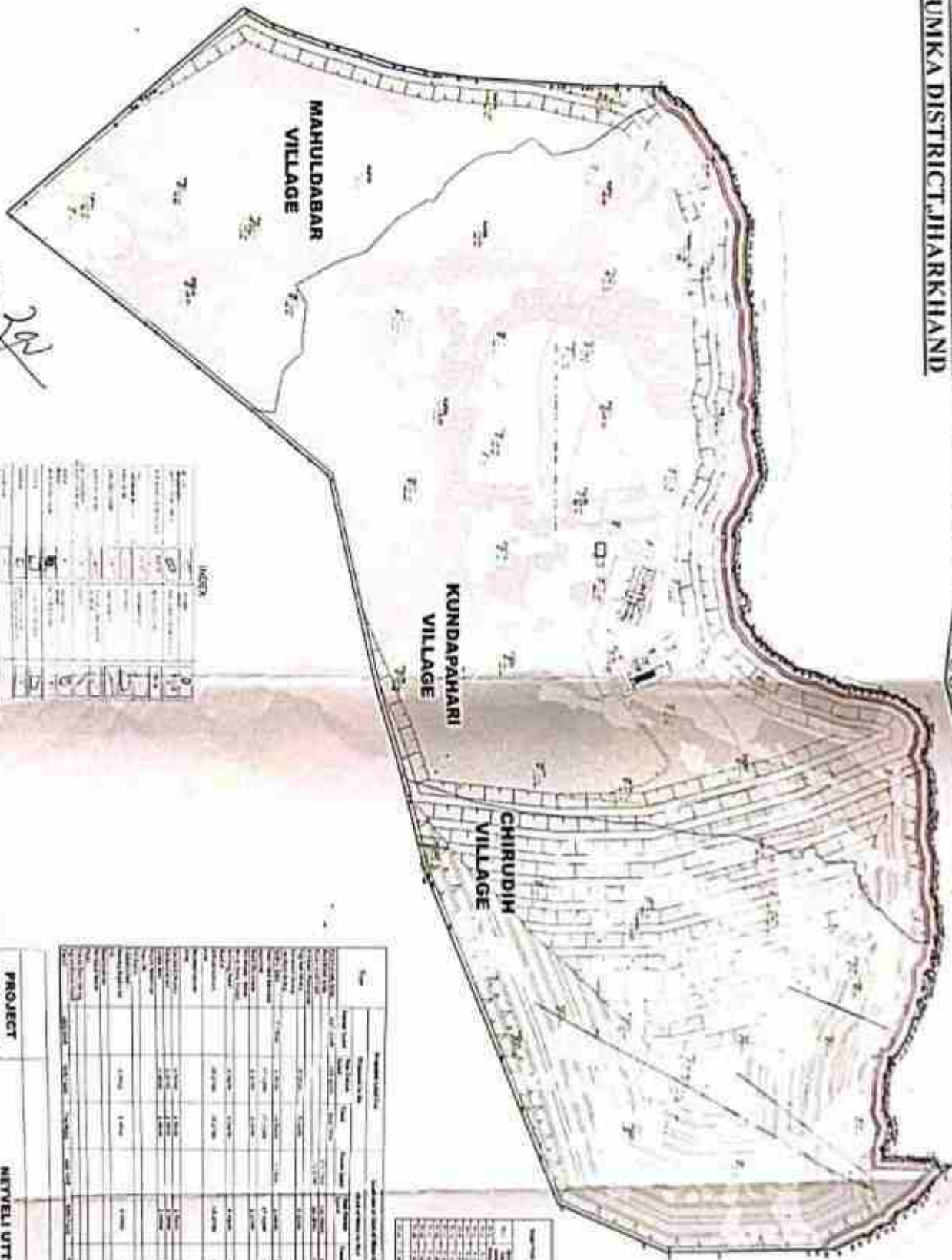




# PHASED RECLAMATION PLAN OF PACHIWARA SOUTH COAL MINE, DUMKA DISTRICT, JHARKHAND



| LEGEND |                           |
|--------|---------------------------|
|        | GEOLOGICAL BLOCK BOUNDARY |
|        | VILLAGE BOUNDARY          |
|        | NOTIFIED FOREST           |



| INSETS |   |
|--------|---|
|        | 1 |
|        | 2 |

| PHASED RECLAMATION PLAN |            |
|-------------------------|------------|
| Sl. No.                 | Area (Ha.) |
| 1                       | 1.20       |
| 2                       | 1.20       |
| 3                       | 1.20       |
| 4                       | 1.20       |
| 5                       | 1.20       |
| 6                       | 1.20       |
| 7                       | 1.20       |
| 8                       | 1.20       |
| 9                       | 1.20       |
| 10                      | 1.20       |
| 11                      | 1.20       |
| 12                      | 1.20       |
| 13                      | 1.20       |
| 14                      | 1.20       |
| 15                      | 1.20       |
| 16                      | 1.20       |
| 17                      | 1.20       |
| 18                      | 1.20       |
| 19                      | 1.20       |
| 20                      | 1.20       |
| 21                      | 1.20       |
| 22                      | 1.20       |
| 23                      | 1.20       |
| 24                      | 1.20       |
| 25                      | 1.20       |
| 26                      | 1.20       |
| 27                      | 1.20       |
| 28                      | 1.20       |
| 29                      | 1.20       |
| 30                      | 1.20       |
| 31                      | 1.20       |
| 32                      | 1.20       |
| 33                      | 1.20       |
| 34                      | 1.20       |
| 35                      | 1.20       |
| 36                      | 1.20       |
| 37                      | 1.20       |
| 38                      | 1.20       |
| 39                      | 1.20       |
| 40                      | 1.20       |
| 41                      | 1.20       |
| 42                      | 1.20       |
| 43                      | 1.20       |
| 44                      | 1.20       |
| 45                      | 1.20       |
| 46                      | 1.20       |
| 47                      | 1.20       |
| 48                      | 1.20       |
| 49                      | 1.20       |
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| 61                      | 1.20       |
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| 63                      | 1.20       |
| 64                      | 1.20       |
| 65                      | 1.20       |
| 66                      | 1.20       |
| 67                      | 1.20       |
| 68                      | 1.20       |
| 69                      | 1.20       |
| 70                      | 1.20       |
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| 74                      | 1.20       |
| 75                      | 1.20       |
| 76                      | 1.20       |
| 77                      | 1.20       |
| 78                      | 1.20       |
| 79                      | 1.20       |
| 80                      | 1.20       |
| 81                      | 1.20       |
| 82                      | 1.20       |
| 83                      | 1.20       |
| 84                      | 1.20       |
| 85                      | 1.20       |
| 86                      | 1.20       |
| 87                      | 1.20       |
| 88                      | 1.20       |
| 89                      | 1.20       |
| 90                      | 1.20       |
| 91                      | 1.20       |
| 92                      | 1.20       |
| 93                      | 1.20       |
| 94                      | 1.20       |
| 95                      | 1.20       |
| 96                      | 1.20       |
| 97                      | 1.20       |
| 98                      | 1.20       |
| 99                      | 1.20       |
| 100                     | 1.20       |

SCALE - 1:5000

**GOTTE RAJESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Satwik, IFS.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

| PROJECT     |  |
|-------------|--|
| PROPOSED    | NEVELI UTTAR PRADESH POWER LIMITED   |
| JOB TITLE   |  |
| SUBJECT     | MINE PLAN AND MINE CLOSURE PLAN FOR PACHWARA SOUTH COAL MINE, DUMKA, RAJMAHAL COALFIELD, JHARKHAND |
| SCALE       |  |
| PREPARED BY | UNITED EXPLORATION INDIA PVT. LTD.   |

PLATE-



एन यू पी पी एल



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the rehabilitated forest area, following the closure of mining operations, will be handed over to the State Forest Department for sustainable forest management in the future.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
S. S. S. S. S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी. इंडिया लिमिटेड एवं पी.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त प्रक्रम)

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA.

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nicindia.in](mailto:pachwara.south@nicindia.in) TEL: 06434-236147.

Lt No. NUPPL/PSCB/GM/FC-1 Compliance/2025/08

Date:07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the safety zone (a 7.5-meter strip along the inner boundary of the mining lease area) will be demarcated, fenced, protected, and regenerated. This will include erecting an adequate number of 6-foot-high RCC boundary pillars inscribed with DGPS coordinates, installing barbed wire fencing, and deploying sufficient watchers, all under the supervision of the State Forest Department.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

**General Manager/Project Head,  
PSCMP, NUPPL**

PSCMP, NUPPL

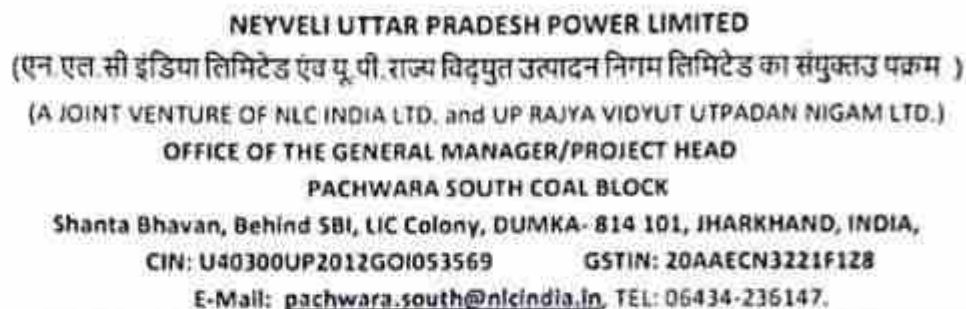
**GOTTE RAMESH**

**GOTIE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NJPPL, Dumka (Jharkhand)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



A-xviii



Date:07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the boundary of the safety zone of the mining lease, adjacent to habitation and roads, will be properly fenced.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

Satwik, J.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

**General Manager/Project Head,  
PSCMP, NUPPL**

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

## NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclIndia.in](mailto:pachwara.south@nclIndia.in), TEL: 06434-236147.

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the boundary of Safety zone will be maintained as green belt around mining lease and to ensure dense canopy in the area, regeneration will be taken up in this area at project cost under the supervision of the State Forest Department.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
General Manager/Project Head,  
PSCMP, NUPPL  
GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन एल सी इंडिया लिमिटेड एवं यू पी राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAIYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that it will ensure the safety zone is maintained as per the prescribed norms under the guidance of the State Government.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
 General Manager/Project Head,  
 PSCMP, NUPPL

**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी इंडिया लिमिटेड एव यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that mitigative measures to minimize soil erosion and choking of streams will be implemented within a period of three years, starting from the issuance of the 'Final' approval, in accordance with the approved plan/scheme and in consultation with the State Forest Department.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, L.F.S.**  
 Divisional Forest Officer,  
 District Forest Division

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी इंडिया लिमिटेड एवं यूपी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that Planting of adequate drought hardy plant species and sowing of seeds, in the appropriate area within the mining lease to arrest soil erosion in accordance with the approved Plan/scheme.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
 General Manager/Project Head,  
 PSCMP, NUPPL

  
 Satwik, I.F.S.  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

## NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

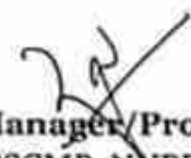
Date: 07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that the construction of check dams and retention/toe walls to arrest the sliding of excavated material will be carried out along the contour, in accordance with the approved plan/scheme.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL

GOTTE RAMESH

General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satvik, I.F.S.  
Provisional Forest Officer,  
Dumka Forest Division, Dumka





**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures to stabilize the overburden dumps by appropriate grading/benching, in accordance with the approved scheme, so as to ensure that angles of repose at any given place is less than 28°.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, L.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन.एल.सी इंडिया लिमिटेड एंव यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.



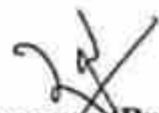
Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/og

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that no damage will be caused to the top-soil and will follow the top soil management plan.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures the validity of approval granted under the Adhiniyam shall be for a period co terminous with the validity of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, as amended from time to time or Rules framed there under, or for such period as may be specified by the Central Government.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
 Satwik, I.F.S.  
 Divisional Forest Officer.  
 Dumka Forest Division, Dumka

  
 General Manager/Project Head,  
 PSCMP, NUPPL  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**

(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA.

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 09.01.2025

**UNDERTAKING**

Scheme for gap planting and soil and moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40) is under preparation, once it is approved by Competent Authority, payment incurred will be done accordingly by M/s NUPPL.

Yours faithfully,

*For Neyveli Uttar Pradesh Power Ltd.*

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



## NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 09.01.2025

### UNDERTAKING

Plan for de-silting of village tanks and other water bodies located within five Km from the mine lease boundary is under preparation, once it is approved by competent authority the cost of implementation of de-silting measures will be paid by M/s NUPPL.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
Divisional Forest Officer  
Dumka Forest Division, Dumka

**General Manager/Project Head,  
PSCMP, NUPPL**

**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in) TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/og


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that it will comply with the Hon'ble Supreme Court order on re-grassing, and re-grass the mining area and any other areas which may have been disturbed due to mining to restore them to a condition which is fit for growth of fodder, flora, fauna, etc. in a timely manner.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, L.F.S.**  
Divisional Forest Officer,  
Div. Forest Division, Dumka

  
General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



A-xxx

**NEYVELI UTTAR PRADESH POWER LIMITED**

(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**

**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.

एन यू वी पी एल



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

**UNDERTAKING**

This is to certify that Neyveli Uttar Pradesh Power Ltd.(NUPPL) will take adequate care to check any rolling of overburden/dumps beyond the designated area and to check soil erosion caused due to mining activities

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Satwik, L.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

A - XXXI



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 09.01.2025

### UNDERTAKING


Soil Conservation Management Plan (SMC) is under preparation once the plan is approved by Competent Authority, M/s NUPPL is ready to pay the deficit amount if any, from the money already realized to the tune of 0.5%.

As per the MoEF & CC, GoI Circular dated 07.06.2022 M/s Neyveli Uttar Pradesh Power Ltd has submitted 0.5 % (Rs. 11.2145 Crores) of the project cost against the cost of implementation of Soil Conservation Management Plan (SMC).

Further, M/s NUPPL undertakes to pay the cost of other similar plans which are under preparation. Once the plans are approved by Competent Authority, payment for the cost of implementation will be done accordingly.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



A - XXXII



**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन एल सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in) TEL: 06434-236147




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that under no circumstances, approval granted for the use of forest land for underground mining, will subsequently be converted to opencast mining.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RANESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एंव यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उ.पक्रम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the R&R Plan will be implemented as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF & CC along with indicators for monitoring and expected observable milestones.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
**General Manager/ Project Head**  
**Pachwara South Coal Block**  
**NUPPL, Dumka (Jharkhand)**

  
**Satwik, I.F.S.**  
**Divisional Forest Officer**  
**Dumka Forest Division, Dumka**



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A-XXIV



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यूपी राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

**UNDERTAKING**

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures to explore the possibility of translocation of maximum number of trees identified to be felled.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**

**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

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NEYVELI UTTAR PRADESH POWER LIMITED  
(एन एल सी इंडिया लिमिटेड एवं यूपी राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK  
Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F1Z8  
E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that the cost of felling of trees will be deposited along with the State Forest Department.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL  
GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka





Annex - 35

**NEYVELI UTTAR PRADESH POWER LIMITED**

(एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA.

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.

A-XXXVI



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 09.01.2025


**UNDERTAKING**

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) has obtained the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
Divisional Forest Officer.  
Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

ENVIRONMENTAL  
CLEARANCE

**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

To,

The CEO  
NEYVELI UTTAR PRADESH POWER LIMITED  
6/42, VIPUL KHAND, GOMTI NAGAR,,Lucknow,Uttar Pradesh-226010

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/JH/CMIN/168045/2020 dated 10 Oct 2022. The particulars of the environmental clearance granted to the project are as below.

- |  |                                     |
|--|-------------------------------------|
| 1. EC Identification No.                   | EC24A042JH120508                    |
| 2. File No.                                | IA-J-11015/18/2020-IA-II(M)         |
| 3. Project Type                            | New                                 |
| 4. Category                                | A                                   |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals             |
| 6. Name of Project                         | Pachwara South Coal Mine Project    |
| 7. Name of Company/Organization            | NEYVELI UTTAR PRADESH POWER LIMITED |
| 8. Location of Project                     | Jharkhand                           |
| 9. TOR Date                                | 05 Nov 2020                         |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 23/09/2024

(e-signed)  
Sundar Ramanathan  
Scientist F  
IA - (Coal Mining sector)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

**Satwik, I.F.S.**  
Divisional Forest Officer,  
Divisional Forest Division, Dumka



**File No. J-11015/18/2020-IA. II (M)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

\*\*\*\*\*

Indira Paryavaran Bhawan,  
Jorbagh Road, N Delhi - 3  
Email: [r.sundar@nic.in](mailto:r.sundar@nic.in)  
Tel: 011-20819378

Dated: 23<sup>rd</sup> September, 2024

To,

The Chief Executive Officer,  
M/s Neyveli Uttar Pradesh Power Limited,  
At Village, Chirudih, Tehsil Gopikandar,  
District Dumka - 814101 (Jharkhand)  
Email: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in)

**Sub: Pachwara South Opencast Coal Mine of 9 MTPA (Normative & Peak) in mine lease area of 714.8553 ha by M/s Neyveli Uttar Pradesh Power Limited located at Rajmahal Coalfield, District Dumka (Jharkhand) – Environmental Clearance – reg.**

Sir,

This has reference to your online proposal No. IA/JH/CMIN/168045/2020 dated 10<sup>th</sup> October, 2022 and your subsequent letter dated 19<sup>th</sup> September 2024 (submission of Stage – I FC for diversion of 455.1108 Ha) for grant of Environmental Clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance to the project Pachwara South Opencast Coal Mine of 9 MTPA (Normative & Peak) in mine lease area of 714.8553 ha by M/s Neyveli Uttar Pradesh Power Limited located at Rajmahal Coalfield, District Dumka (Jharkhand). The project/activity is covered under category 'A' of item I(a) 'Mining of Minerals' the Schedule to the EIA Notification, 2006

3. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 36<sup>th</sup> meeting held during 20-21 October, 2022, 41<sup>st</sup> meeting held during 13-14 March, 2023 and 47<sup>th</sup> meeting on 21-22 July, 2023 through Video Conferencing. The details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meetings, are given as under:

- i. The project area is covered under Survey of India Topo Sheet No G45V6 & G45V7 and is bounded by the geographical coordinates ranging from Latitude 24°29'57.404"N to - 24°31'46.956"N and Longitude 87°27'22.010"E to 87°29'S6.150"E.

**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

EC Letter to M/s Neyveli Uttar Pradesh Power Limited

**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

- ii. Coal Mined from this project will be utilized in Ghatampur Thermal Power Plant (Neyvelli Uttar Pradesh Power Limited), a Coal based Thermal Power Plant with a capacity of 1980 MW (3 X 660 MW) at Ghatampur Tehsil in Kanpur Nagar District, Uttar Pradesh.
- iii. Joint venture cartel has been formed on 09.11.2012.
- iv. Project does not fall in the Critically Polluted Area (CPA), as per MoEF &CC's OM dated 13<sup>th</sup> January, 2010.
- v. Employment generation: Direct-1288 and indirect employment generation shall be more than 3000.
- vi. The project is reported to be beneficial in terms of employment to local people directly and indirectly. Indirect employment will be in the form of service provides, shopkeepers, mechanic, drivers, transporters etc. The lessee will be responsible for providing better social infrastructure benefits such as drinking water, health care measures, educational facilities, promotion of culture and religious activities in surroundings as part of their CER activities. The proposed mine will bring economic benefits to the state by the way of Royalty and other statutory payments. The linked power plant of 1980 MW will produce of 14743.08 MU of power which will help the state of Uttar Pradesh state to meet out the shortfall in power requirements.
- vii. Terms of Reference granted on 5<sup>th</sup> November 2020 for a production capacity of 9 MTPA (Normative) and 13.50 MTPA (Peak rated) by Vide letter no. IA-J-1 1015/18/2020-IA-II(M) dated 5<sup>th</sup> November, 2020.
- viii. Total mining lease area as per block allotment is 715 ha. Mining Plan (Including Progressive Mine Closure Plan) has been approved by the Ministry of Coal (MoC) on 11th Nov'2020, vide letter no. 3401 1/2/2020-MPS.
- ix. The land usage pattern of the project is as follows:  
Pre-mining land use details (Area in Ha)

| S. No. | Land Use                    | Within ML Area  | Outside ML Area | Total           |
|--------|-----------------------------|-----------------|-----------------|-----------------|
| 1      | Agricultural Land           | 136.40          | -               | 136.40          |
| 2      | Forest Land                 | 397.39          | -               | 397.39          |
| 3      | Wasteland                   | -               | -               | -               |
| 4      | Grazing land                | 12.20           | -               | 12.20           |
| 5      | Surface water bodies        | 10.32           | -               | 10.32           |
| 6      | Settlements                 | 139.13          | -               | 139.13          |
| 7      | Others (Specify)            | 12.2653         | -               | 12.2653         |
| 8      | Old Excavation Area (East)  | -               | -               | -               |
| 9      | Old Excavation Area (West)  | -               | -               | -               |
| 10     | Old OB Dumps                |                 |                 |                 |
| 11     | Roads & Mine Infrastructure | 7.15            | -               | 7.15            |
| 12     | R & R Colony                | -               | -               | -               |
| 13     | Staff Colony                | -               | -               | -               |
| 14     | Green Belt                  | -               | -               | -               |
|        | Balance Area                | -               | -               | -               |
|        | <b>Total Project Area =</b> | <b>714.8553</b> |                 | <b>714.8553</b> |



Post Mining (Area in Ha)

| S. No. | Land Use                               | Land use (ha) |            |            |             |                 |
|--------|--|---------------|------------|------------|-------------|-----------------|
|        |  | Plantation    | Water Body | Public Use | Undisturbed | Total           |
| 1      | External OB Dump                       |               |            |            |             |                 |
| 2      | Top Soil Dump                          |               |            |            |             | 6.53            |
| 3      | Excavation                             |               |            |            |             | 643.76          |
| 4      | Roads                                  |               |            |            |             | 18.47           |
| 5      | Built-up Area                          |               |            |            |             |                 |
| 6      | Green Belt                             |               |            |            |             | 3.06            |
| 7      | Undisturbed area                       |               |            |            |             | 3.2653          |
| 8      | Safety Zone / Rationalization Area     |               |            |            |             | 10.84           |
| 9      | Diversion / Below River / Nala / Canal |               |            | 3.31       |             | 3.31            |
| 10     | Water Body                             |               |            |            |             |                 |
| 11     | Staff Colony                           |               |            |            |             |                 |
| 12     | Others                                 |               |            |            |             | 25.62           |
|        | <b>Total Area =</b>                    |               |            |            |             | <b>714.8553</b> |

- x. Total gross geological reserve reported in the mine lease area is 415.02 MT with 269.58 MT mineable reserve. Out of total mineable reserve of 269.58 MT, 262.84 MT are available for extraction Percent of extraction is 70.37%.
- xi. 31 seams (including splits) with thickness ranging from 0.5 m to 19.43 m are workable. Grade of coal is G10 (GCV 4300 to 4600), stripping ratio 3.25, while gradient is 1:19.
- xii. Method of mining operations envisages by Mechanized opencast mining method.
- xiii. Life of mine is 38 years including two years of pre mining activity.
- xiv. The project has one external OB dump initially in an area of 197.79 ha. with 60 m height with 80.63 MCum of OB. One internal dump in an area of 523.62 ha. with 853.27 MCum of OB is envisaged in the project. The re-handling of entire surface dump (80.63 MCum) will commence from 7th year of production commencement and completed by 19th year from production commencement and there would not be any external dump.
- xv. Proposed quarry area is 643.76 ha out of which backfilling will be done in 523.62ha while final mine void will be created in an area of 120.14 ha with a depth of 320m. Backfilled quarry area of 122.29ha shall be reclaimed with plantation. Final mine void of 120.14 ha will be converted into water body.
- xvi. Transportation of coal has been proposed by front head loader dumper combination in mine pit head (however, as the mine goes to depth, a steep angle conveyor system will be installed from mine face to temporary coal stock yard at later stage), from surface to siding coal will be transported through conveyor system. However, in the initial few years, till the conveyor laying is completed, coal will be transported through road. At sidings RLS and Bunkers will be installed for coal loading onto wagons.

Satwik P. B. Jaiswal  
Divis al For t Officer,  
Dun - 3

**GOPI RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

- xvii. Out of 715 ha. of project area, an area of 643.76 ha. will be excavated. Out of total 643.76 ha. of excavated area, an area of about 523.62 ha. will be backfilled and 120.14 ha of land will remain as a mined-out void which will be converted as water body.
- xviii. 397.39 ha of forest land has been reported to be involved in the project. Approval under the Forest (Conservation) Act, 1980 for diversion of 397.39ha of forest land for non-forestry purposes will be obtained.
- xix. No National Parks, Wildlife Sanctuaries and Eco-Sensitive Zones fall within 10 km boundary of the project.
- Wildlife conservation plan for schedule - I have been submitted to the Principal & Chief Conservator of Forest, Doranda, Ranchi, Jharkhand on 6<sup>th</sup> October, 2022. List of Flora and Fauna has been authenticated by DFO, Pakur for buffer zone vide letter no. 127 on dated 18th January, 2022. List of Flora and Fauna has been authenticated by DFO, Dumka for core zone vide letter no. 572 on dated 07.03. 2022.
- xx. Clarification from Divisional Forest Officer, Dumka is obtained vide letter no- 2509 dated 07.12.2020 that the mine does not fall under corridors of any National Park and Wildlife Sanctuary. Since, the Buffer Zone is also covering part of Pakur District, clarification from Divisional Forest Officer, Pakur is also obtained vide letter no- 227 dated 02.01.2021 that the buffer zone doesn't form a part of any National Park and Wildlife Sanctuary
- xxi. The ground water level has been reported to be varying between 4.5 m to 11.0 m during pre-monsoon and between 2.25 m to 9.1 m during post-monsoon.
- xxii. Total water requirement for the project is 1660KLD including domestic and industrial
- xxiii. Application for obtaining the approval from Central Ground Water Authority has been submitted and a provisional No Objection Certificate for Groundwater Abstraction has been granted by vide letter no-CGWA/NOC/MIN/ORIG/2022/14905 dated 25.03.2022.
- xxiv. Public hearing for the project of production capacity of 9 MTPA (Normative) and 13.50 MTPA (Peak rated) in an area of 715 ha was conducted on 28<sup>th</sup> of December, 2021 at 11.30am in village Rangamison on Dumka-Pakur main road under the Chairmanship of Additional Collector. Major issues raised in the public hearing include social-developmental activities, pollution control due to mining. Appropriate action to address the issues raised in the Public Hearing have already been taken/proposed.
- xxv. During the public hearing, major issues raised were related to social-developmental activities, Pollution control during mining activity, construction of R & R colony with all basic amenities and adequate compensation for the "Van Patta" and other land, construction of schools for children, employment to the villagers, filling the mined out land and to be made flat, irrigation well and distribution network shall be installed, occurrence of seepage of ground water and leaching from overburden material
- xxvi. Consent to Operate will be obtained from the concerned authority as per prevailing norms.
- xxvii. No perennial river is passing through the block and diversion of such Streams/ Nala's are thus not envisaged.
- xxviii. Regular monitoring of Ambient Air quality will be carried out as per the guideline of MOEF & CC. Monitoring report will be submitted along with half yearly EC compliance report.
- xxix. No court cases, violation cases are pending against the project of the PP.
- xxx. Base line study for Environmental Impact Assessment has been carried out during December, 2020 to February, 2021.

Satwik, I.F.S.

Divisional Forest Officer

Dumka Forest Division, Dumka

EC Identification No. - EC24A042JH120508 File No. - IA-J-11015/18/2020-IA-II(M) Date of Issue EC - 23/09/2024

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GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NITDPJ, Dumka / Jharkhand



- xxxi. The project does not involve violation of the EIA notification 2006, coal production will be started after obtaining necessary statutory approval from concern authorities.
- xxxii. The project involves 541 project affected families. R&R of the PAPs will be done as per the statute. At present, detailed SIA study is ongoing on under the guidance of District Administration. More precise numbers of PAF's and PAP's along with estimated R&R cost will be informed after completion of the SIA study.
- xxxiii. Total cost of the project is Rs. 1795.01 crores. Cost of production is Rs. 1071 per tonne, estimated CER cost for Pachwara South Coal block is coming around Rs.8.97 cores. Environment Management cost: Capital Investment - Rs 185 lakh, Recurring Cost-118 lakh.
- xxxiv. Revised Environmental Budget:

| Activities   | Capital Cost (in Rs. Lakhs) | Recurring Cost per Annum (in Rs. Lakhs) | Total Recurring Cost in the lease period (in Rs. Lakhs) |
|--|-----------------------------|---|---|
| <b>Air Pollution Control</b>   |                             |   |   |
| Installation & maintenance of Automatic Sprinklers along the haul road.                    | 350                         | 4.5                                     | 171   |
| Purchase & maintenance of water tanker & machineries for water sprinkling                  | 65                          | 7.5                                     | 285   |
| Online AQ monitoring system  | 35                          | 2.5                                     | 95  |
| Construction & Maintenance of mines haul road  | 90                          | 8.5                                     | 323   |
| <b>Total</b>   | <b>540</b>                  | <b>23</b>                               | <b>874</b>  |
| <b>Water Pollution Control</b>   |                             |   |   |
| Construction of garland drain around the dump  | 150                         | 4                                       | 152   |
| Construction & maintenance of garland drain around mining pit                              | 225                         | 8                                       | 304   |
| Construction of 2 settling ponds & it's collecting drains                                  | 175                         | 2.5                                     | 95  |
| Masonry Construction of Catch pits to arrest the clay mixed water from the ROM Stack yard. | 22                          | 1.25                                    | 47.5  |
| Construction of toilets with septic tank & soak pits ( 5 Nos.)                             | 77.5                        | 1                                       | 38  |
| Water Treatment Plant for domestic use of Mine Pit water.                                  | 50                          | 2.5                                     | 95  |
| Effluent Treatment Plant ( ETP)  | 1050                        | 31.5                                    | 1197  |
| <b>Sub-Total =</b>   | <b>1749.5</b>               | <b>50.75</b>                            | <b>1928.5</b>   |
| <b>Noise Pollution Control</b>   |                             |   |   |
| Mining machineries fitted with upgraded silencer, noise pollution control facilities       | 3500                        | 250                                     | 9500  |

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| Activities   | Capital Cost (in Rs. Lakhs) | Recurring Cost per Annum (in Rs. Lakhs) | Total Recurring Cost in the lease period (in Rs. Lakhs) |
|--|-----------------------------|---|---|
| <b>Sub-Total =</b>   | <b>55</b>                   | <b>2.5</b>                              | <b>95</b>   |
| <b>Environmental Monitoring &amp; Management</b>   |                             |   |   |
| Electronic display board near the main gate  | 22.5                        | 0.5                                     | 19  |
| Installation & maintenance of round the clock Weather Monitoring Station on the office           | 8.5                         | 1.25                                    | 47.5  |
| Monitoring & reporting cost of registered laboratory   |                             | 5.5                                     | 209   |
| <b>Sub-Total =</b>   | <b>31</b>                   | <b>7.25</b>                             | <b>275.5</b>  |
| <b>Occupational Safety</b>   |                             |   |   |
| Provision of safety shoes, dust mask, safety goggles, ear plugs, safety helmets, etc to workers. | 25.76                       | 25.76                                   | 978.88  |
| Construction of Rest Shelters & First Aid Centre   | 25                          | 0.5                                     | 19  |
| Annual health checkup of workers & health camp   | 64.4                        | 12.88                                   | 489.44  |
| Ambulance for workers and villagers - 1 No. (Replacement considered in 11 <sup>th</sup> year)    | 15                          | 4                                       | 152   |
| Training to Staff  | 2.6                         | 2.6                                     | 98.8  |
| <b>Total</b>   | <b>132.76</b>               | <b>45.74</b>                            | <b>1738.12</b>  |
| <b>Plantation &amp; Green Belt Development</b>   |                             |   |   |
| Plantation and Green Belt Development for the entire lease period                                | 1642.5                      | 102                                     | 3876  |
| <b>Sub-Total =</b>   | <b>1642.5</b>               | <b>102</b>                              | <b>3876</b>   |
| <b>Grand Total =</b>   | <b>4150.76</b>              | <b>231.24</b>                           | <b>8787.12</b>  |

xxxv. EMP capital cost of Rs. 4150.76 Lakhs and recurring cost to be spent as Rs. 8787.12 Lakhs on environment.

xxxvi. PP will spent total of Rs. 144,27000 to address the issues raised during Public Hearing mentioned below:

| Activity                               | Budget in Rs.    |
|--|------------------|
| School Bus Provisions per Year         | 20,00000         |
| Hand Pump & Pump Sets                  | 15,00000         |
| Construction of School in R & R Colony | 89,27000         |
| Provision for Anganwadi                | 20,00000         |
| <b>Total =</b>                         | <b>144,27000</b> |



4. The Expert Appraisal Committee in its 47<sup>th</sup> EAC Meeting on 21 - 22 July, 2023 through Video Conferencing has recommended the project for grant of Environment Clearance (EC). Based on recommendations of the EAC, Ministry of Environment, Forest and Climate Change hereby accords approval for Environment Clearance(EC) to Pachwara South Opencast Coal Mine of 9 MTPA (Normative & Peak) in mine lease area of 714.8553 ha by M/s Neyveli Uttar Pradesh Power Limited located at Rajmahal Coalfield, District Dumka (Jharkhand), under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions in addition to the standard environmental conditions notified by the Ministry as under :-

- i. PP should not construct any infrastructure and no dumping of overburden allowed on forestland, (if required Mine Plan shall be revised).
  - ii. PP shall mine 9 MTPA (as peak capacity) as per the calendar plan submitted in the Mining plan and accordingly CTO from State Pollution Control Board shall be obtained for 9 MTPA.
  - iii. PP shall restrict the mining activity at least 100m away from the HFL of the Bansloi River in order to protect the natural flow of river. Accordingly, embankment with stone pitching on both side (towards and outwards of river) shall be developed. Dense plantation shall be developed with Sal Trees on this embankment.
  - iv. PP shall construct the railway siding towards other side of riverbank so that all available coalmines can access for the use of transportation purpose.
  - v. The construction of railway siding shall be in commensurate with inpit belt conveyor system along with silo loading system and the same shall be completed within 30 months i.e. on or before February 2026; accordingly, SPCB may grant CTO.
  - vi. PP has to resolve suggestions/objections raised during the public hearing along with implement activities-wise proposed budget of Rs. 144,27000 (as Public Hearing Budget), Capital cost of Rs. 4150.76 Lakhs and recurring cost of Rs. 8787.12 Lakhs (as EMP cost) in time bound manner as per para 47.5.2 (ii) & (iii) of MoM. The details of annual expenditure shall be part of report submitted to IRO, MoEF&CC. PP needs to include the audited figures against the expenditure and activities to be monitored through dedicated online monitoring mechanism. The maintenance of all activities shall be covered through recurring cost of Public Hearing, which will be part of CSR budget.
  - vii. The truck size of 40 tonne (payload) for the transportation of coal through road till commissioning of SILO with rapid loading system i.e. on or before February 2026 accordingly SPCB may issue the CTO. No coal transportation shall be done from village road and near to any sensitive locations such as schools, hospitals etc.
  - viii. PP must develop adequate drainage pattern all around the Mine lease area and treat it through ETP. No acidic/untreated water from mine should be allowed to discharge from mine lease area into the water bodies including river.
  - ix. PP shall explore the sand-segregation plant for recovering sand from Overburden.
  - x. PP shall install fixed type sprinkling system (near to haul road, stockyard, transportation route etc.) across the mine lease area in order to arrest the dust coming out from the mining
- status of mine closure activities must be included in every six months compliance report



- submitted to the state pollution control board and IRO.
- xii. PP shall conduct third party audit of compliance of EC condition at an interval six months and its report shall be submitted to IRO, MoEF&CC.
  - xiii. PP to maintain the topped haul road properly to minimized the dust emission. PP to also develop pucca roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone. Also PP shall install Mist Cannon Dust Suppression Systems (80-100 mtrs.) at Coal Stock Yard to suppress the dust particles (at least 10 numbers).
  - xiv. Garland drains (2mX3m) of adequate size shall be provided at the toe of the benches to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of Overburden dump, which will be regularly cleaned before the onset of monsoon every year.
  - xv. PP shall construct 5 water harvesting pond (of at least 5 ha) separately to recharging the ground water and usage of project affected families within 10-15 km of project area within 2 years of commencement of mine operation.
  - xvi. PP shall make alternate arrangement of grazing land of at least 10 ha for usage of project affected families within 10-15 km of project area within 2 years of commencement of mine operation.
  - xvii. PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.
  - xviii. PP shall make use of advanced computer simulation techniques for design and execution of blasting operation in the mine. PP shall make use of Electronic Delay Detonators for optimal blasting in coal and OB rock to minimize the environmental impacts of blasting such as ground vibration, fly rocks and excessive dust generation
  - xix. PP shall deploy atleast 20% of overall fleet of dumpers/trucks as electrical or CNG/LNG based dumpers/trucks for transportation of coal/OB etc and deploy e-vehicles for workers/staff in the mine.
  - xx. PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.
  - xxi. Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
  - xxii. PP shall establish a school for local people and Project affected families as per the new Education policy, 2020 along with the school bus facility with minimum fees.
  - xxiii. PP shall create a "Public Grievance Redressal and Monitoring System" for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on "Public Grievance Redressal and Monitoring System.
  - xxiv. PP shall ensure distribution of water from the artificial reservoir within and outside Mine in consultation with gram panchayat. The water treatment plant to meet the requirement with the start of production.
  - PP shall install fixed fog cannon (mist spayer) and fixed sprinkler all along the haul road/

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- CHP, and OB dump till Railway siding is completed. The sufficient number of fog cannons (not less than 10 nos.) with 40 mts jet length shall be installed within 6 months. It should be ensured that air pollution level confirm to the standards prescribed by the MOEFCC/CPCB.
- xxvi. PP shall deposit the approved amount as proposed for wildlife conservation plan to the Govt. of Jharkhand, Forest & Environment Dept. shall do regular follow up with for expenditure of Wildlife Conservation Plan and the details expenditure shall be submitted with six monthly EC compliance report to Ministry's IRO. Also, PP shall engage with State Biodiversity Authority and local biodiversity committee under its CSR activity to develop the local market.
- xxvii. PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.
- xxviii. PP shall conduct feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well as post closure of mines in line with the Fly Ash Utilization Notification, 2021
- xxix. Continuous air quality monitoring station (CAAQMS) should be installed within six months of commencement of mine and the real time data so generated to be uploaded on company website. In addition, data should also be displayed digitally at entry and exist gate of mine lease area for public display.
- xxx. PP to plant 100,000 nos. of Sal trees only and develop nursery of 10 ha sal trees for free distribution in nearby areas.
- xxxi. PP shall obtain prior approval of CGWA for use of groundwater for mining operations
- xxxii. PP shall conduct catchment area study of the nallah/streams present and may impact river before any diversion. These catchment study shall be submitted to EAC prior to any diversion of streams for appropriate mitigation measures.

4.1 The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:

(a) **Statutory compliance**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).

Satish  
I.P.S.

Divl.  
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- iv. The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- vi. Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.

**(b) Air quality monitoring and preservation**

- i. Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely  $PM_{10}$ ,  $PM_{2.5}$ ,  $SO_2$  and  $NO_x$ . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.
- ii. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- iii. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of  $PM_{10}/PM_{2.5}$ ) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- iv. The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.
- v. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- vi. Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
- vii. Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.

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Uttar Division, Dumka

Director, Pachwara South Opencast Coal Mine of M/s Neyveli Uthar Pradesh Power Limited

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NUPPL, Dumka (Jharkhand)



(c) **Water quality monitoring and preservation**

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board.
- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27<sup>th</sup> May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- iii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
- iv. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
- v. Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
- vi. Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.
- vii. Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).
- viii. Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP /STP needs to be provided.
- ix. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly.

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- x. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc. shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GOI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law.
- xi. The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

**(d) Noise and Vibration monitoring and prevention**

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
- ii. Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.
- iii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

**(e) Mining Plan**

- i. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- ii. Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).
- iii. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.
- iv. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

**(f) Land reclamation**

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- ii. The final mine void depth should preferably be as per the approved Mine Closure Plan, and exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and

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alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27<sup>th</sup> August, 2009 and subsequent amendments.

- iii. The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.
- iv. Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
- v. Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.
- vi. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

**(g) Green Belt**

- i. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
- ii. Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.

**(h) Public hearing and Human health Issues**

- i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.

The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records

*[Signature]*

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accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.

- iii. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iv. Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
- v. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29<sup>th</sup> October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

(i) **Corporate Environment Responsibility**

- i. Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry's O.M. No. 22-65/2017-IA.III dated 30<sup>th</sup> September 2020 and based on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

(j) **Miscellaneous**

The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be

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(Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

5. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.

6. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

7. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

8. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2<sup>nd</sup> August, 2017 of Hon'ble Supreme Court in WP (Civil) No. 114/2014 in the matter of 'Common Cause Vs Union of India & others.

9. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.

10. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.

This issues with the approval of the competent Authority.

(Sundar Ramanathan)  
Scientist 'E'

**Copy to:**

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi
3. The Additional Principal Chief Conservator of Forests, Regional office (ECZ), Ministry of Environment & Forests, Bungalow No. A-2, Shyamali Colony, Ranchi - 834002
4. The Chairman, Jharkhand State Pollution Control Board, TA Building, HEC Complex, PO

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GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NIPPL, Dumka / Jharkhand



5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Chairman, Central Ground Water Authority, Ministry of Jal Shakti, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The District Collector, Dumka, Government of Jharkhand.
8. Monitoring File/Guard File/Record File,
9. PARIVESH Portal

(Sundar Ramanathan)  
Scientist 'E'

  
**Satwik, I.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka

  
**GOTTU RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
 (A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)  
**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlcindia.in](mailto:pachwara.south@nlcindia.in), TEL: 06434-236147.



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 08.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that no labour camp shall be established on the forest land and will provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Sawik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
 PSCMP, NUPPL



## NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी. इंडिया लिमिटेड एंव यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

(A JOINT VENTURE OF NLC INDIA LTD. and UP RAJYA VIDYUT UTPADAN NIGAM LTD.)

OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F1Z8

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147.

Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025


## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the boundary of the diverted forest land, mining lease and safety zone, as applicable, will be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS coordinates. The layout plan of the mining plan/ proposal will not be changed without the prior approval of the Central Government and the forest land will not be used for any purpose other than that specified in the proposal.

Yours faithfully,

For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
 PSCMP, NUPPL  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यूपी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
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**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
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 E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147.




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that the forest land proposed to be diverted will under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
 General Manager/Project Head,  
 PSCMP, NUPPL

**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)

  
**Satvik, I.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division.





**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी इंडिया लिमिटेड एवं यू.पी. राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
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**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
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Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 06.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that no damage to the flora and fauna of the adjoining area will be caused.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

*[Signature]*  
 General Manager/Project Head,  
 PSCMP, NUPPL

*[Signature]*  
 Satwik, I.F.S.  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
(एन.एल.सी.इंडिया लिमिटेड एंव यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उपाक्रम )  
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**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**

Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,

CIN: U40300UP2012GOI053569

GSTIN: 20AAECN3221F128

E-Mail: [pachwara.south@nclindia.in](mailto:pachwara.south@nclindia.in), TEL: 06434-236147,




Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms to comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL

**GOTTE RAMESH**  
General Manager/Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
**Sahwik, L.F.S.**  
Divisional Forest Officer,  
Dumka Forest Division, Dumka





NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )  
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OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK

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Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) assures that it will submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year regularly.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
General Manager/Project Head,  
PSCMP, NUPPL  
GOTTE RAMESH  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

  
Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka



**NEYVELI UTTAR PRADESH POWER LIMITED**  
 (एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
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**OFFICE OF THE GENERAL MANAGER/PROJECT HEAD**  
**PACHWARA SOUTH COAL BLOCK**  
 Shanta Bhavan, Behind SBI, LIC Colony, DUMKA- 814 101, JHARKHAND, INDIA,  
 CIN: U40300UP2012GOI053569 GSTIN: 20AAECN3221F128  
 E-Mail: [pachwara.south@nlicindia.in](mailto:pachwara.south@nlicindia.in), TEL: 06434-236147



Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife will be carried out along with the State Government.

Yours faithfully,  
 For Neyveli Uttar Pradesh Power Ltd.

  
**Satwik, L.F.S.**  
 Divisional Forest Officer,  
 Dumka Forest Division, Dumka

  
**General Manager/Project Head,**  
**PSCMP, NUPPL**  
**GOTTE RAMESH**  
 General Manager/ Project Head  
 Pachwara South Coal Block  
 NUPPL, Dumka (Jharkhand)



## NEYVELI UTTAR PRADESH POWER LIMITED

(एन.एल.सी.इंडिया लिमिटेड एवं यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम )

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OFFICE OF THE GENERAL MANAGER/PROJECT HEAD

PACHWARA SOUTH COAL BLOCK

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Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08


Date: 07.01.2025

## UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that any violation of any of these conditions will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and action would be taken as prescribed in para 1.16 of Chapter 1 of the Consolidated Guidelines and Clarifications on Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 as issued by this Ministry's letter dated 29.12.2023.

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

  
**Satvik, L.F.S.**  
Divisional Forest Officer,  
Forest Division, Dumka

  
**General Manager/Project Head,**  
PSCMP, NUPPL  
**GOTTE RAMESH**  
General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)



NEYVELI UTTAR PRADESH POWER LIMITED  
(एन.एल.सी.इंडिया लिमिटेड एंव यू.पी.राज्य विद्युत उत्पादन निगम लिमिटेड का संयुक्त उद्यम)  
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OFFICE OF THE GENERAL MANAGER/PROJECT HEAD  
PACHWARA SOUTH COAL BLOCK

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Lt No. NUPPL/PSCB/GM/FC-I Compliance/2025/08

Date: 07.01.2025

### UNDERTAKING

This is to certify that Neyveli Uttar Pradesh Power Ltd. (NUPPL) affirms that the compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).

Yours faithfully,  
For Neyveli Uttar Pradesh Power Ltd.

General Manager/Project Head,  
PSCMP, NUPPL

GOTTE RAMESH

General Manager/ Project Head  
Pachwara South Coal Block  
NUPPL, Dumka (Jharkhand)

Satwik, I.F.S.  
Divisional Forest Officer,  
Dumka Forest Division, Dumka