

**BEFORE THE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH
NEW DELHI**

ORIGINAL APPLICATION No. 512 OF 2022
IN THE MATTER OF:

SANJAY KUSHWAHA

.....APPLICANT

VERSUS

STATE OF UTTAR PRADESH & ORS.

...RESPONDENTS

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Northern Coalfields Ltd.
Khadia Project

Through

ASHUTOSH THAKUR, Adv
#321, C.K.Daphtary Block,
New Lawyers Chamber,
Supreme Court of India,
New Delhi-110001
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8700083787

Filed on: 14 /06/2023

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**BEFORE THE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH
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ORIGINAL APPLICATION No. 512 OF 2022
IN THE MATTER OF:

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STATE OF UTTAR PRADESH & ORS.

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**ADDITIONAL REPLY ON BEHALF OF NORTHERN COALFIELDS
LTD., KHADIA PROJECT IN TERMS OF ORDER DATED 14.03.2023**

I, Rajiv Kumar, aged about 57 years, S/o Late. Shivkant Jha , R/o Khadia Area, Post- Shakti Nagar , Sonebhadra, Uttar Pradesh, do hereby solemnly affirm and state as under: -

1. That I am working as the General Manager, Northern Coalfields Limited, Kadia Project, as such in my official capacity, I am well conversant with the facts and circumstances of the present case as per the official records and also Competent to file the present reply.
2. That the Response on behalf of the Northern Coalfields Ltd, Khadia Project to the Joint response filed by Committee of District Magistrate, Sonebhadra and U.P. Pollution Control Board in Compliance Of Hon'ble National Green Tribunal (NGT), New Delhi in O.A. No. 512/2022 and filed before this Hon'ble Tribunal on 09.03.2023, which are as under:-

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Sl. No.	Recommendations	Compliance Status
1	PTZ camera should be installed by NCL Khadia Project in the affected area Chilkadad habitation, to monitor Cement Concrete road construction and movement of vehicles carrying coal and it should be connected with CPCB and SPCB server for regular monitoring.	A PTZ has already been installed in the affected area to monitor Cement Concrete road construction and movement of vehicles carrying coal. For the purpose of connectivity of the same to CPCB and SPCB, credentials has been shared to UPPCB and CPCB vide letter no. KHD/GM/Min/Env/UPPCB/23-24/3842 dated 08.04.2023. (Copy of NCL letter dated 08.04.2023 is enclosed as ANNEXURE-A).
2	NCL Khadia Project must adopt continuous water sprinkling for dust suppression during movement of vehicles and it should be regularly monitored by Project Proponent.	Continuous water sprinkling is being done and is being monitored on daily basis. The condition of water sprinkling has already been incorporated in the agreement signed with the contractual agency deploying vehicle on the said road (Copy relevant pages of Agreement is enclosed as ANNEXURE-B).
3	NCL Khadia Project should develop 10 meter wide green belt with fast growing plants species along with 2.4 meter high boundary wall, towards Chilkadad habitation side, in time bound manner.	For the purpose of construction of 2.4 m high boundary wall, a work order has been issued vide LoA no. NCL/GM©/ETN-47/LOA-02/447 dated 30.04.2023 and work is likely to be completed by september'2023. (Copy of Work Order dated 30.04.2023 is enclosed as ANNEXURE-C). Green belt is already developed besides the said haul road and as per existing scenario, 10 meter strip will not be available for the purpose of green belt development. However, gap planation will be done by Khadia Project, wherever required as a routine measure, after construction of 2.4 m high boundary wall.
4	NCL Khadia Project should ensure completion of construction of 6.61 km. long cement concrete road by April, 2023 failing which appropriate Environmental Compensation need to be imposed as per CPCB guideline after timeline i.e. April, 2023.	Cement concrete road has been completed for the affected area (besides Chilkatand Village) and Vehicle transporting minerals are now being transported through said CC Road.
5	NCL Khadia Project should ensure that movement of all vehicles carrying coal must be covered with tarpaulin and not overloaded.	Vehicles carrying coal are kept covered with tarpaulin and not being overloaded. (Copy of NCL Circular dated 15.09.2019 is enclosed as ANNEXURE-D).

3. The Coal India Ltd and its subsidiaries has in place a Corporate Social Responsibility Policy dated 08.04.2021 laid down in accordance with the provisions of Companies Act, 2013 and rules made thereunder, which is available on the Company's website. The Northern Coalfields Ltd under

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its CSR policy, affirms its commitment of seamless integration of marketplace, workplace, environment and community concerns with business operations by undertaking following activities / initiatives that are not taken in its normal course of business and/or confined to only the employees and their relatives and which are in line with the broad-based list of activities, areas or subjects that are set out under schedule VII of the Companies Act, 2013 and Rules made thereunder as amended from time to time. A copy of the CSR Expenditure Report of Northern Coalfields Ltd, Khadia Area for Financial Year 2022-2023 is annexed as **ANNEXURE- E.**

4. That the Consolidated Consent to Operate and Authorisation (Air & Water) was given by the Uttar Pradesh Pollution Control Board vide its letter dated 12/16.12.2022 which is valid from 01.01.2023 to 31.12.2024 vide UPPCB Letter No. 166971/UPPCB/Sonebhadra (UPPCBRO) /CTO/both/SONBHADRA/ 2022 Date: 12/12/2022. A copy of the UPPCB Letter of Consent dated 12.12.2022 is annexed as **ANNEXURE- F.**

5. That in compliance to which the Northern Coalfields Ltd vide its letter dated 01.02.2023 has furnished its compliance report to the UPPCB. A copy of the Compliance Report of Consent to Operate dated 01.02.2023 furnished by Northern Coalfields Ltd, Khadia Area is annexed as **ANNEXURE- G.**




6. That the Environmental Clearance to the NCL, Khadia Project was given by the Ministry of Environment, Forest & Climate Change (Coal Mining) Division vide letter dated 23.03.2016 for Opencast Coal Mine Expansion from 10 MTPA to 14 MTPA subject to certain conditions. A copy of the

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EC dated 23.03.2016 issued by Ministry of Environment, Forest & Climate Change (Coal Mining) Division is annexed as ANNEXURE- H.

7. That the Environmental clearance to the NCL, Khadia Project was given by the Ministry of Environment, Forest & Climate Change (Coal Mining) Division vide letter dated 27.07.2022 for Opencast Coal Mine Expansion from 14 MTPA to 15 MTPA subject to certain conditions. A copy of the EC dated 27.07.2022 issued by Ministry of Environment, Forest & Climate Change (Coal Mining) Division is annexed as ANNEXURE- I.
8. That the NCL, Khadia Project has to submit compliance report of EC conditions/ norms every six months. The last submission for the period 01.10.2022 to 31.03.2023 was made by the NCL, Khadia Project on 26.05.2023. A copy of the Northern Coalfields Ltd, Khadia Project letter NO. NCL/Khd/Env/MoEF-Lucknow/23-24/3887 dated 26.05.2023 alongwith documents is annexed as ANNEXURE- J.
9. That the Northern Coalfields Ltd., Khadia Project is taking appropriate remedial action, in accordance with Statutory provisions for prevention, control and abatement of environmental pollution/degradation and for protection and improvement of environment.
10. That I say that the Annexure-A to J annexed along with the present reply are true copy of its respective original.

Date:- 14/06/2023


(General Manager)
General Manager
Northern Coalfields Ltd.
Khadia Project
③ 


नॉर्दर्न कोलफील्ड्स लिमिटेड
खड़िया परियोजना
(मिनिरातना कंपनी)
(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited
Khadia Project
(A Miniratna Company)
(A subsidiary of Coal India Limited)

Office of the General Manager



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

थाना-शक्तिनगर, जिला-सोनभद्र (उ०प्र०) पिन-231222/ Thana-Shaktinagar, Dist. Sonbhadra (U.P.) Pin- 231222
Phone: 05446- 232274, (FAX) 05446- 232274 Email: cgm.khd@gmail.com, website : www.ncil.in

No. KHD/GM/Min/Env/UPPCB/23-24/3842

Dated:- 08/04/2023

To,
Chief Environmental Officer (Circle-2),
UP Pollution Control Board,
Dr. Bhimrao Ambedkar Bhawan, T.C. 12 V,
Vibhuti Khand, Gomati Nagar Lucknow, (U.P.) - 226010

Sub: Compliance of directive given by Hon'ble National Green Tribunal, New Delhi in the matter of OA. No. 512/2022

Ref. (1) Order issued by Hon'ble NGT, Ne Delhi on 14.03.2023 in the matter of OA no. 512/2022.

Dear Sir,

As per the order issued by Hon'ble national green tribunal in the matter of OA no. 512/2022 (Sanjay kushwaha v/s State of U.P. & Ors), it has been recommended by District Administartion and U.P. Pollution Control Board that *"PTZ camera should be installed by NCL Khadia Project in the affected area chilkadad habitation, to monitor cement concreting road construction and movement of vheicles carrying coal and it should be connected with CPCB and SPCB served for regular monitoring"*.

In compliance of the above directive, a PTZ camera has been installed in the vicinity of Chilkatand habitation and login daetails of the same as below.

URL:- 117.205.7.206:54401

ID:- admin

Password:- Admin@123

This is being submitted in compliance of order dated 14.03.2023 by Hon'ble NGT, New Delhi.

Yours faithfully,

[Signature]
General Manager,
Khadia Project

Copy to :

- 1) Regional Director, Central Pollution Control Board, Picup Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow - 226010

- 2) The Regional Officer, U.P. Pollution Control Board, H.No. 162, Uttar Mohal, Robertsganj (U.P.)
- 3) GM (Env), NCL HQ - Singrauli

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- 3.07 No addition or alteration to the size of the body or any such truck shall be carried out, without prior approval of the General Manager. The trucks shall be loaded only upto the maximum carrying capacity and shall not be overloaded under any circumstances. In case of those contracts where the lead distance involves transportation on PWD road also, the following condition will apply:

In case UP/MP Govt. authorities lift the restriction on the quantity transported per truck, the benefit will pass on to NCL and accordingly, the payment will be restricted to the permissible net weight per truck or actual whichever is less, on monthly basis.

- 4.00 No manual workers shall be engaged by the contractor for loading / unloading of the trucks or loading of wagons, under any circumstances whatsoever.
- 5.00 The contractor shall bring / take back and arrange for the transportation of the trucks / equipments / men and materials required for the work at his own cost.
- 6.00 Contractor's trucks should ply only on specified routes / roads. In case, plying of the trucks on any other route / road become necessary, due to any reason, prior approval for the same shall be taken by the contractor from the General Manager. In case of violation of this provision penalty may be imposed on the contractor and / or the contract terminated.
- 6.01 The contractor(s) will make arrangement for sprinkling of water on roads on which his / their tipping trucks are playing as well as on the siding / wharfwall for suppression of dust in the interest of safety as well as health of the persons working nearby. The contractor(s) shall have to engage sufficient number of water tankers for this purpose. The tippers shall be suitably covered while transporting the coal. Contractor has to ensure compliance of law of land, lighting, water spraying arrangement, dust suppression to the standard as desired by the Pollution Control Board.
- 7.00 The work shall be executed round the clock on all the days of week as directed by the General Manager and the contractor shall be obliged to comply with the same.
- 8.00 The contractor shall not have any claim whatsoever for the idleness of his tipping trucks / trucks/ payloaders / equipments / employees for want of coal or non-availability of departmental equipment or lack of space available at the unloading site or any dislocation en-route and / or for any other reason.
- 9.01 The contractor shall at his own cost arrange for all materials, stores, spares, tools, tackles etc. and maintenance/ repairs of the tipping trucks/ pay loaders/ equipments required / deployed for the work. The company shall have no liability whatsoever on this account.
- 9.02 In emergent situations and provided the contractor makes an application in this regard, POL, if available with the company, may at the sole discretion of the company, be issued to him with the approval of the General Manager but value of the same along with the handling / departmental charges as per the then prevailing rules of the company shall be charged from him or recovered from his bills / security deposit.

12/08/2022
K. MAHADEV-BPCPL (IV)

General Manager
Khadia Area



Annexure C

सिविल विभाग / CIVIL Department

CIN- U10102MP1985GOI003160

An ISO 9001, ISO 14001 & ISO 45001 Certified Company

पोस्ट-सिंगरौली कोलियरी, जिला- सिंगरौली, म. प्र., पिन 486889 / Post- Singrauli Colliery, Distt- Singrauli, M.P. PIN-486889

Phone: 07805- 256290, email: gmcivil.ncl@coalindia.in, nclcivilhq01@gmail.com website : www.nclcil.in

Letter Number: NCL /GM (C)/ETN-47/LOA-02/ 447

Date: 30.04.2023

To
M/s National Prestige Construction Co.,
WIE colony, Quarter No. GD-6,
Anpara, Distt. - Sonebhadra
Mob No: 9754127004, 9753358333
Email: npcc.ssg@gmail.com

Sub: Letter of Acceptance / Work Order for the work "Providing boundary wall/retaining wall at various places in Khadia Project."

Ref:

NIT number : GM(C)/SGR/22-23/ETN-47 Date 22.12.2022
Tender ID No : 2022_NCL_265628_1

Dear Sir,

With reference to the above, this is to communicate the approval of the competent authority for award of the subject work to you for an amount of ₹ 5,18,55,786.86 (₹ 4,39,45,582.08+ GST@18% ₹ 79,10,204.78) (Rupees Five Crore Eighteen Lakhs Fifty Five Thousand Seven Hundred Eighty Six & Paise Eighty six Only) (including GST) has been accepted at the following rate and subject to the following stipulations:

Estimated cost put to tender (in Rs.)	Awarded Amount (Rs.)	% Below the updated estimated cost
7,49,46,938.66	5,18,55,786.86	(-)30.81 %

- All the materials, equipment and manpower required for the work will be arranged by you.
- You are required to submit the Registration / license under Contract Labour (R&A) Act, 1970 within 10 (Ten) days from the date of receipt of this Letter of Acceptance, if required.
- The Performance Security (first part of security deposit) shall be 3% of the contract value amounting to ₹ 13,18,400/- (Rupees Thirteen Lakh Eighteen Thousand Four Hundred only).
The earnest money amounting to Rs. 9,36,900/- deposited by you along with the tender as per online payment information vide Bank Name : Axis Aggregator Bank Netbanking, Bank/UTR No: 123015644, eProcurement Ref./PRN : 27477898064 has been taken into account as a part of the performance security. All running on account bills shall be paid @ 95% of work value. This 5% deduction towards retention money will be the second part of security deposit.
- You are required to submit the following within 21 (Twenty One) days from the date of issue of this letter of acceptance for executing agreement for the work. No document shall be accepted after the expiry of 21 (Twenty One) days from the date of issue of this letter of acceptance / work order:
 - ₹ 3,81,500/- (Rupees Three Lakh Eighty One Thousand Five Hundred only) towards balance amount of 3% Performance Security in acceptable form.
 - Rs. 1,00,41,619.49 (Rs. One crore Forty One Thousand Six hundred Nineteen and paise forty nine) as Additional Performance Security (APS) along with Performance Security as per provision of NIT.
 - Copy of GST Registration Certificate and Service Accounting Code (SAC) of works/services.
 - Copy of Income Tax PAN.
 - Copy of the Partnership deed containing name of partners and documents in support of legal status the bidder.
 - Copy of CMPF/EPF Registration or Copy of undertaking for implementation of CMPF Act.

30.04.23

- vii. Authorisation form for e-Payment duly filled-in.
- viii. PERT/BAR chart showing percentage of periodical progress of completion of work.
- ix. Non-Judicial stamp paper for Rs. 500.00 of MP state.
- x. Copy of the letter of Handing over the site.
- xi. Integrity Pact on Non-Judicial stamp paper for Rs. 500/- of MP State

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5. That you have to take necessary insurance for the full contract period for (i) Workmen compensation and (ii) contractors all risk policy, in the joint name of Northern Coalfields Limited and you. The policies and certificates for insurance shall be delivered by you to the Engineer-in-charge for his approval before commencement of the work. (Applicable for updated value more than Rs. 50.00 lakh)
6. If Security Money is deposited in the form of Bank Guarantee, it should be issued through Structural Financial Messaging System (SFMS) Platform as per the format given in the Tender Document.
7. In case you fail to submit the Performance Security and Additional Performance Security, if any, within the stipulated time of 21 days:
- then the award of work shall be cancelled with forfeiture of the bid security/earnest money.
 - NCL shall ban such defaulting contractor from participating in future tenders in concerned Subsidiary/CIL HQ for a period of minimum one year from the date of issue of such letter.
8. The work shall be completed within **240 days (Two Hundred Forty Days)** from the date of commencement of the work. The date of commencement of the work shall be reckoned from the 30th day of issue of this letter of acceptance or from the 7th of actual date of handing over of the site whichever is later. However, the Date of Commencement may be decided with mutual consent with the Contractor prior to the date as prescribed above.
9. In case of failure to start the work within specified date of commencement of work as per Cl. no. 8 of the subject LOA, the company shall be at liberty by giving 15 days' notice in writing to start the work, failing which to forfeit the earnest money deposited by you and to rescind the LOA and also debar the contractor to take part in the future re-tender. NCL may debar such defaulting Contractors from participating in future Tenders for a minimum period of 12(twelve) months.
10. The work should be executed as per the BOQ, General Terms & Conditions, Additional Terms & Conditions, Scope of Work, Special Terms & Conditions, CPWD specifications, BIS Standards, MPPWD / MoRTH (in case of road work) description of the items of the accepted tender document and instructions of EIC.
11. Contractors are to employ, to the extent possible (as per policy decision of the company valid from time to time), local project affected people and pay wages not less than the minimum wages as per Minimum Wages Act or such other legislations or award of the minimum wage fixed by respective State Govt. or Central Govt. as may be in force.
12. You shall not pay less than the minimum wages to the labourers engaged by you as per Minimum wages act or such other legislation or award of minimum wages fixed by the respective State Govt. or Central Govt. as may be in force.
13. You should ensure implementation of CMPF and allied schemes and Miscellaneous Provisions Act, 1948 or Employees Provident Fund and Miscellaneous Provisions Act, 1952 as the case may be and allied scheme framed thereunder in respect of workers deployed by you and will have to recover statutory dues and deposit the same along with employer's contribution (Contractor's share) to the respective CMPF/EPF Office and to submit statutory return under intimation to the Principal Employer.
14. All duties, taxes (excluding Goods and Services Tax (GST) & GST Compensation Cess (if applicable only), local, municipal, provincial or central etc. and other levies, royalty, building and construction workers cess (as applicable in States) etc. as payable shall be to the contractor's account and shall be deemed to have been included in the tendered rate for the work to be executed. Payment of GST & GST Compensation Cess shall be dealt as per NIT Provisions, GST Act and Rules and other stipulations mentioned in this letter.
15. Regarding GST, the following may please be noted:
- GST will be reimbursed on production of uploaded invoice/documentary evidence. Amount of Statutory levies like CGST, SGST or IGST will be released when the same will appear in GSTR-2A of NCL in the common portal of GST and after submission of documentary evidence of deposition of GST Taxes and filing of GST Returns.
 - You will have to pass on Input Tax Credit by way of enclosing original Tax input invoice with bill.
 - All invoices submitted by you will have to be in the form of GST invoice giving all details as required under the law. You will raise invoice strictly adhering to provisions of section 31 of CGST Act, 2017 along with Rule 46 & 47 of CGST Rule, 2017. You will indicate the rate as well as amount of CGST, SGST or IGST in invoice. You will upload the details of Invoice on GST portal as per the provision of GST Act. Invoice issued by you should bear GST Registration Number of NCL [23AABCN4884HEM1ZE (M.P.) & 09AABCN4884H1Z4 (U.P.)] to enable NCL to claim INPUT TAX CREDIT.
 - You will file all the Returns and details as applicable under GST laws & rules within due dates.
 - You will give an undertaking on invoice or as separate Annexure along with invoice that Invoice/ applicable GST returns has been/will be uploaded on GST portal within due time as prescribed in CGST Act and CGST, SGST or IGST has been deposited as per the provision of GST Act and rules thereon.

20.04.23

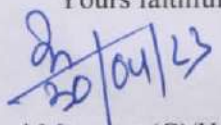
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- f. If there is any delay of payment against the invoice due to your fault and if any reversal of input tax arises, the same will be recovered from you along with interest and penalty if any, as paid by NCL due to reversal.
- g. In case the GST rating of vendor on the GST portal / Government's official website is negative / black listed at any stage even after award of work, NCL has right to cancel the letter of award. NCL shall not be obligated or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by NCL.
- h. You will issue credit note as per the provision of Rule 53 of CGST Rule, 2017 on quality deduction or liquidated damages, if any arises.
- i. If you default in uploading the invoice/ applicable GST returns or default in deposit of applicable GST Taxes, NCL reserves the right to upload such defaulter on NCL website and may also debar you from participating in future tenders for a minimum period of one year.
16. As per clause 8.4 of NIT, only Materials conforming to approved samples shall only be brought to site, as such, you immediately contact **Staff Officer(Civil), Khadia & In charge of the work** for the approval of samples of materials to be used in the work.
17. The contractors shall register themselves on the contract labour payment Management portal (CLPMP) of CIL within 30 days of issue of work order and will have to enter and update periodically the following details in the following details in the portal:
 - a. Work Order details
 - b. Contractor workers details and wages payment details in respect of each Work Order.
 - c. Attendance of labours engaged in this work is to be marked on Biometric System in consultation with Civil & Personnel Department.
18. All the Clauses of Safety Code of the Tender Document, as laid down in Additional Safety Measures to be taken by the contractor, are to be strictly followed.
19. The Paying Authority for this work will be the **Area Finance Manager, Khadia.**
20. **Staff Officer (Civil), Khadia** shall be the Engineer In Charge of the work.

Attached - BOQ

Yours faithfully,


General Manager (C)/HoD
NCL, Singrauli

Copy to:

- 1 TS to Dir(T/P&P)/NCL
- 2 Chief Manager (Civil), QC. HQ to arrange for testing of materials.
- 3 Staff Officer (Civil), Khadia: to ensure the execution strictly as per CPWD / MPPWD / MoRTH specifications wherever applicable & to ensure clause 8 of NIT i.e. Quality Assurance - Materials and Workmanship & ensuring testing of materials as per norms. Engineer-in-charge is to ensure that the list of approved material to be used in the site is conveyed to the contractor in writing along with a copy to be sent to Quality control cell, HQ.
- 4 AFM KHD NCL- In reference to Fund certified vide Ref No.:- KHD/CB/23-24/Mine Development/176/01 dt. 28.04.23 for ₹4,50,35,600.73/- against capital Budget BE 2023-24 point no 10.1.5, 10.1.6 & 10.1.7. Fund certified vide Ref No.:- KHD/CB/FC/23-24/Services(office/workshop)/178/01 dt. 28.04.23 for ₹68,20,186.13/- against capital Budget BE 2023-24 point no 3.2.5.
- 5 Regional Labour Commissioner(C), Bhootnath Ashram, Sarvodaya Nagar, Kanpur – 208005(UP)
- 6 Assistant Labour Commissioner(C), 189/A-4, Alopibagh, PO – Daraganj, Allahabad (UP)
- 7 Labour Enforcement Officer(C), 189/A-4, Alopibagh, PO – Daraganj, Allahabad (UP)



विपणन एवं विक्रय विभाग / Marketing & Sales Department



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- सिंगरौली कोलियरी, जिला- सिंगरौली, म.प्र., पिन 486889 Post- Singrauli Colliery, Distt- Singrauli, M.P. PIN-486889

Phone: 07805- 266605, (FAX) 266640 email: gmsales.ncl@coalindia.in website : www.ncl.coil.in

No.NCL/SGR/Sales/19-20/653

Date: 15th.September 2019

ORDER

SUBJECT: COVERING OF TRUCKS CARRYING COAL WITH TARPAULIN

In order to comply with Environmental norms, all Areas of NCL should ensure that all trucks loaded with coal & exiting mine premises of NCL must invariably be fully covered with tarpaulin. This must be implemented for all trucks which are carrying coal from NCL mines under all schemes including those deployed for transportation of coal from mines to railway sidings.

Although, similar directions had also been issued earlier, but it has been observed that the directions are not being complied judiciously. This statutory requirement needs to be complied with zero tolerance.

It must be ensured that trucks are fully & properly covered. Any sparsely covered or un-covered truck should not be allowed to exit the mine premises at the mine barrier itself. Individual project shall also ensure that appropriate instructions are also issued to the coal buyers/transporters mentioning there-in that if the trucks are found to be non-compliant with the above directives, the truck will be prohibited from coal transportation/despatch activity from all mines of NCL for a minimum period of 15 days for which the buyer/transporter shall be solely responsible.

15/9/19
Director (Tech/Oprns)
NCL, Singrauli

Copy for kind information to:
CMD, NCL

Distribution:

- 1) All area GM's for strict compliance.
- 2) HOD (Systems), NCL Hq- for hoisting the same on NCL's website.
- 3) Chief of Security, NCL Hq - for ensuring strict compliance.
- 4) GM (ENV), NCL

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CSR Expenditure Report of Khadia Area for FY 2022-23

S. No.	Sanction Year	Name of the project	District	Sanctioned Amount (Rs.)	Award Amount (Rs.)	Exp. Till March, 22	Action plan approved for FY 2022-23	Exp. Including liability in FY 2022-23 till March, 23 (Rs. Lakh)	Total Exp.	Mode of implementation Direct/or through implementing agency	Date of start (DD/MM/YY)	Date of completion (as per award/MoU)	Expected Completion Date	Present Status: Completed/On going/Not started
1	2	3	4	5	6	7	8	9	10= 7+9	11	12	13	14	15
1	2017-18	Training of poor children of class 5th for qualify the Entrance Exam of Jawahar Navodaya Vidyalaya (JNV) (80 nos)	Sonbhadra	3.00	2.04	0.00	2.04	1.65	1.65	Direct	01.12.2021	30.11.2022	NA	Completed
2	2019-20	Improving Infrastructure in 1804 Govt. Primary Schools and 09 Govt. Inter Colleges by procurement and distribution of furnitures (14298 Nos.) in backwards Areas of Sonbhadra District	Sonbhadra	457.36	261.02	205.77	40.00	14.20	219.97	GeM Portal (M/s Mistry wood works, Jain Associates, Lion India Construction & Shashi Engineering & Works)	03.03.2020	28.04.2022	June, 2023	Ongoing
3	2019-20	Skill Development training in trade chauffer/taxi driver of Rural youths/PAPs through ITI Duddhi by signing MOU (360 nos), Khadia	Sonbhadra	75.00	71.56	35.78	35.78	21.47	57.25	ITI Duddhi	10.03.2020	31.03.2023	NA	Completed
4	2019-20	Helath Camps for villages, Khadia	Sonbhadra	5.00	5.00	3.00	2.00	0.19	3.19	Direct	01.03.2021	31.03.2023	April, 2023	Ongoing
5	2020-21	Bharat ka amrut mahotsava, Khadia	Sonbhadra	2.50	2.50	0.00		2.26	2.26	Direct	15.03.2022	31.03.2023	NA	Completed
6	2021-22	Construction of 25 nos. anganwadi buildings in Sonbhadra	Sonbhadra	340.00	340.00	209.92	130.08	130.08	340.00	DPO, Sonbhadra	31.10.2021	31.03.2023	NA	Completed
7	2022-23	Providing basic amenities to the Anganwadi Centre at Sonbhadra	Sonbhadra	5.00	5.00	NA	5.00	5.00	5.00	Direct	01.06.2022	31.10.2022	NA	Completed
8	2020-21	Nutrition Camps	Sonbhadra	19.89	19.89	15.39	4.50	4.50	19.89	Direct	01.11.2020	31.03.2023	NA	Completed
9	2022-23	Telemedicine facility for villagers around Khadia Area	Sonbhadra	89.29	NA	NA	NA	NA	NA	BHU, Varanasi	NA	NA	NA	Not started
10	2022-23	Procurement of Kabaddi Mat	Sonbhadra	6.00	5.19	NA	5.19	5.19	5.19	AVI Associates	19.12.2022	28.02.2023	NA	Completed
11	2022-23	Development of Volleyball ground in Chilkadand Basti	Sonbhadra	11.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	Not started
12	2022-23	Development of play ground alongwith shed in Kashi Vidyapeeth University	Sonbhadra	13.00	8.26	NA	8.26	6.67	6.67	TECHNO ENGINEERING WORKS	22.12.2022	20.04.2023	20.04.2023	Ongoing
13	2022-23	Development of community park alongwith two rooms with attached toilets at Ambedkarnagar sector-B.	Sonbhadra	40.00	21.80	NA	21.80	13.45	13.45	JITENDRA CONSTRUCTION	24.01.2023	22.06.2023	22.06.2023	Ongoing

13/04/2023

15/4/23

15/4/23

15/4/23

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CSR Expenditure Report of Khadia Area for FY 2022-23

S. No.	Sanction Year	Name of the project	District	Sanctioned Amount (Rs.)	Award Amount (Rs.)	Exp. Till March, 22	Action plan approved for FY 2022-23	Exp. Including liability in FY 2022-23 till March, 23 (Rs. Lakh)	Total Exp.	Mode of implementation Direct/or through implementing agency	Date of start (DD/MM/YY)	Date of completion (as per award/MoU)	Expected Completion Date	Present Status: Completed/On going/Not started
1	2	3	4	5	6	7	8	9	10= 7+9	11	12	13	14	15
14	2022-23	Procurement of Musical instrument & Souns system for Vivekanand School.	Sonbhadra	5.00	4.78	NA	4.78	4.78	4.78	Lara Agency	13.08.2022	25.12.2022	NA	Completed
15	2022-23	Providing RO cum water cooler for Buddhi Tehsil.	Sonbhadra	0.99	0.54	NA	0.54	0.54	0.54	WATER TREATMENT EXPERT	21.07.2022	18.11.2022	NA	Completed
16	2022-23	Nutrition Camps	Sonbhadra	19.89	19.89	NA	12.00	6.28	6.28	Direct	01.12.2022	31.08.2023	31.10.2023	Ongoing
17	2022-23	Deficit Grant to DAV Khadia	Sonbhadra	314.88	314.88	NA	314.88	315.96	315.96	Direct	01.04.2022	31.03.2023	NA	Completed
18	2021-22	Skill Development in Expert Computer Coarse	Sonbhadra	10.00	10.00	0.00	9.96	9.96	9.96	MGKVP University	25.03.2021	31.03.2022	NA	Completed
19	2017-18	Skill Development	Sonbhadra	14.17	14.16	12.85	1.31	1.31	14.16	IIT-BHU	01.10.2020	31.03.2021	NA	Completed
								543.49						

Target for FY 2022-23= 508.84 Lakh

Expenditure in FY 2022-23= 543.49 Lakh

Rajk
13/04/2023
Nodal Officer (CSR)
Khadia Area

8/4/23
Staff Officer (Pers.)
Khadia Area

15/04/2023
Staff Officer (Civil)
Khadia Area

15/4/23
Area Finance Manager
Khadia Area

8/4

**Uttar Pradesh Pollution Control Board**

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.in, Website: www.uppcb.com

166971/UPPCB/Sonebhadra(UPPCBRO)/CTO/both/SONBHADRA/2022**Date: 12/12/2022****To,****M/s****KHADIA PROJECT NORTHERN COALFIELDS LIMITED****Office of The General Manager, NCL Khadia, Post - Shaktinagar,
District - Sonbhadra,SONBHADRA,231222****Application Id-
18144192**

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981

CCA is hereby granted to **KHADIA PROJECT NORTHERN COALFIELDS LIMITED** located at **Office of The General Manager, NCL Khadia, Post - Shaktinagar, District - Sonbhadra,SONBHADRA,231222**. subject to the provisions of the **Water Act, Air Act** and the orders that may be made further and subject to following terms and conditions :-

1. This CCA KHADIA PROJECT NORTHERN COALFIELDS LIMITED granted for the period from **01/01/2023 to 31/12/2024** and valid for manufacturing of following products.

S No	Product	Quantity	Unit
1	COAL (Million Ton/Annum) after expansion	12.18	Million Tonnes/Year

2. Conditions under Water(Prevention and Control of Pollution) Act -1974 as amended :-

(i) The daily quantity of effluent discharge (KLD) :-

Kind of Effluent	Quantity(KLD)	Treatment facility	Discharge point
Domestic	1378 KLD treated effluent shall be used for horticulture	STP	horticulture etc.
Industrial	3000 KLD treated effluent shall be reused in vehicle washing, water sprinkling for dust suppression and horticulture.	ETP	ZLD

(ii) Trade Effluent Treatment and Disposal :-The applicant shall operate Effluent Treatment Plant consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iii) The treated effluent shall be recycled to the maximum extent and should be reused within the premises for gardening etc. Quality of the treated effluent shall meet to the following general and specific standards as

prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

Industrial Effluent Quality Standard

S.No.	Parameter	Standard
1	BOD	30 mg/l
2	COD	250 mg/l
3	TSS	100 mg/l
4	Oil and Grease	10 mg/l

(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening as far as possible. The STP shall be maintained continuously so as to achieve the quality of the treated sewage to the following standards.

S No.	Parameters	Standards
1	pH	As per E(P) Act 1986.
2	BOD (mg/L)	As per E(P) Act 1986.
3	TSS (mg/L)	As per E(P) Act 1986.
4	Fecal Coliform (MPN/100ml)	As per E(P) Act 1986.

3. Conditions under Air (Prevention and Control of Pollution) Act -1981 as amended :-

i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

Air Pollution Source Details

S No.	Air Pollution Source	Type of fuel	Stack no	Control Device	Height of Stack
1	Dust generated from Blasting, Drilling, loading/unloading and transportation			Particulate Matter	Multi Cyclone, Water sprinkling system, Covered conveyor system, Fixed Sprinklers, Mist Gun.

Emission Quality Standards

S No.	Stack no	Parameters	Standards
1		Particulate Matter	As per E(P) Act 1986.
2		Sulphur Dioxide	As per E(P) Act 1986.

3		58 Cycles of Nitrogen	As per E(P) Act 1986.
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In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately

(ii) The unit will not use any type of restricted fuel.

iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	65	55	55	45	50	40

4. Essential documents to be submitted by the Industry/Unit as Applicable :-

(i) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

(ii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

5. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

6. Unit has to comply with the following specific & general conditions. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will result in legal action under the aforesaid Acts and Rules.

7. In compliance to the G.O 1011/81-7-2021-09 (Writ)/2016 dated.13.10.2021 issued by Department of Environment, Forest and Climate Change, Uttar Pradesh. You are directed to develop Miyawaki Forest as per the SOP available at URL:-<http://www.upecp.in/TrainingSession.aspx> for ensuring timely compliance of this direction, you are hereby directed to submit a bank guarantee with minimum validity of one year of the amount equivalent to the sum of initial consent fees (Air and Water) or Rs. 50,000/- (Rs. Fifty Thousand Only) whichever is more, within 30 days from the date of issuance of this certificate. In case of non-compliance of this direction, your consent will be revoked by the Board.

8. If the unit uses the ground water and requires the permission from SGWA/CGWA for water abstraction then the industry will have to obtain No objection certificate for abstraction of ground water. It will be the responsibility of the industry to comply with the various conditions of the NOC obtained from the competent authority and submit to the Board, within 3 months time failing which CTO will be revoked.

General Conditions:-

1. The applicant shall get analysed the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UPPCB.

2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.

3. Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.

4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.

5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof
6. The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.
7. The industry shall provide Inspection Book at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point
12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.

Specific Conditions:-

1. This consent is valid for 12.18 million ton coal production per annum in the 1332 Hectare area in Uttar Pradesh.
2. Unit shall comply with the conditions of Environmental Clearance issued vide EC identification no. EC22A042UP184193, File no. J-11015/255/2006-IA-II(M) dated 27-07-2022 by MoEF&CC Govt of India and its compliance report shall be submitted to UPPCB.
3. Industry shall comply with the conditions of CTE issued by UPPCB vide letter no. 162337/UPPCB/Sonebhadra(UPPCBRO)/CTE/SONBHADRA/2022 dated 02.10.2022 and its compliance report shall be submitted to UPPCB.
4. Unit shall operate and maintain installed APCS effectively to achieve the standards prescribed under E(P) Rules, 1986 as amended.
5. Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers preferably mist type mobile sprayers/sprinklers.
6. Unit shall utilize the fly ash as much as possible in construction activities and in development of roads. The fly ash utilization detail shall be submitted quarterly.
7. Unit shall properly operate Online Ambient Air Quality Monitoring System and ensure data connectivity with CPCB and UPPCB server and its progress shall be submitted on quarterly basis.
8. Transportation of coal should be done through belt type conveyer and covered railway wagons.
9. Unit shall maintain effective dust separation /collection system at Coal Handling and Transportation point in such manner so that Ambient Air Quality is not affected at nearby places and Ambient air quality shall be monitored and its report shall be submitted on quarterly basis to the UPPCB.
10. Unit shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
11. Proponent shall establishing Miyawaki forest as per the GO no. 1011/81-7-2021-09(rit)/2016 dated 13.10.2021 of Deptt. of Environment, forest and climate change.
12. Unit shall comply with the provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016.
13. Industry shall treat industrial effluent through ETP in such a manner to achieve the standard prescribed

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under Environment (Protection) Rules 1986 and treated effluent shall be reused in vehicle washing, water sprinkling for dust suppression and horticulture. Industry shall upgrade the ETP in time bound manner.

14. Domestic effluent shall be treated through STP as per the standard prescribed under Environment (Protection) Rules 1986 and treated water shall be used for horticulture within premises.

15. Industry shall not discharge any kind of effluent outside the premises and shall ensure ZLD.

16. Treated effluent shall not be discharged in Rihand Reservoir in any case.

17. Industry shall operate Electro Magnetic Flow meter at water source, inlet and outlets of ETP and STP and shall provide data connectivity to CPCB server. The records of flow meter readings shall be maintained.

18. Industry shall operate PTZ camera at ETP and STP for surveillance of proper operation and shall provide the URL and password to the Board within 01 month.

19. Water sprinkling shall be carried out regularly to suppress the dust emission. A log book shall be maintained.

20. Unit shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.

21. Unit shall abide by directions given by Hon'ble Court, Hon'ble NGT, Central Pollution Control Board and UPPCB for protection of safe guard of environment from time to time.

22. Unit shall submit ambient air quality monitoring report of approved laboratory with 01 months and thereafter on quarterly basis.

23. Unit shall comply with the directions issued under Singrauli Action Plan in time bound manner.

24. Industry shall comply with the directions passed by Hon'ble Supreme Court in Civil Appeal No 4251-4252/2019 on 08-11-2019.

25. Unit shall comply with the recommendations of Core committed constituted by Hon'ble NGT and submit the compliance report to supervisory committee and to the Board.

26. Unit shall comply with the relevant provisions of Environmental Laws.

**RAJENDRA
SINGH**

Chief Environmental Officer (circle-2)

Digitally signed by RAJENDRA
SINGH
Date: 2022.12.16 15:55:22 +05'30'

Copy to:

Regional Officer, UPPCB, Sonbhadra with direction to send the compliance report of CTO conditions on quarterly basis.

RAJENDRA SINGH

Chief Environmental Officer (circle-2)

Digitally signed by RAJENDRA
SINGH
Date: 2022.12.16 15:55:32 +05'30'

नॉर्दर्न कोलफील्ड्स लिमिटेड
खड़िया परियोजना
(मिनिरात्र कंपनी)
(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited
Khadia Project
(A Miniratna Company)
(A subsidiary of Coal India Limited)

Office of the General Manager



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

थाना-शक्तिनगर, जिला-सोनभद्र (उ०प्र०) पिन-231222/ Thana-Shaktinagar, Dist. Sonebhadra (U.P.) Pin- 231222
Phone: 05446- 232274, (FAX) 05446- 232274 Email: cgm.khd@gmail.com, website : www.nclcil.in

No. KHD/GM/Min/Env/UPPCB/22-23/3759-1

Dated: 01/02/23

To,
The Member Secretary,
UP Pollution Control Board,
Dr. Bhimrao Ambedkar Bhawan, T.C. 12 V,
Vibhuti Khand, Gomati Nagar Lucknow, (U.P.) - 226010

Sub: Compliance report of Consent to Operate

Dear Sir,

Khadia Project, NCL expresses gratitude to UPPCB for granting the Consent to Operate (Air & Water) issued vide 166971 / UPPCB / Sonebhadra (UPPCBRO) / CTO / both/ SONBHADRA/2022 dated 12/16.12.2022_ valid from 01.01.2023 to 31.12.2024.

For the above granted air and water consent, please find enclosed herewith compliance status of the above mentioned consent letter.

Encl : As above

Yours faithfully,


01/02/2023
General Manager,
Khadia Project

Copy to :

- 1) The Regional Officer, U.P. Pollution Control Board, H.No. 162, Uttar Mohal, Robertsganj (U.P.)
- 2) GM (Env), NCL HQ - Singrauli

**Northern Coalfields Limited
Khadia Area**

Compliance report of Consent to Operate (Air & Water) issued vide letter no. 166971/UPPCB/Sonebhadra(UPPCBRO)/CTO/both/SONBHADRA/2022 Dated : 12/16.12.2022 from UPPCB, Lucknow

S.N.	General Condition	Compliance
1	The applicant shall get analyzed the samples of effluent /emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF&CC and shall report to the UPPCB.	Project abides to comply the conditions.
2	The applicant shall however, not without the prior consent of the board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.	Project abides by the condition.
3	Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.	Treated industrial Waste water is being reused in dust suppression, firefighting, green belt development etc. in mine premises. Treated domestic waste water is being reused in horticulture and Miyawaki afforestation.
4	The applicant shall strictly comply with the conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA . If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.	Khadia Project will comply with the conditions of This consent order.
5	The applicant shall maintain good house keeping. All valves/pipes/sewer/drains,etc must be leak proof.	Agreed. Khadia Project is maintaining good housekeeping and valves / pipes/ sewer/drains are kept leak proof.
6	The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, air pollution control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.	Project abides by the condition.
7	The industry shall provide Inspection book at the time	Project abides by the condition.

	of inspection to the Board's officials.	
8	Whenever due to any accident or other foreseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.	Project abides by the condition.
9	The industry shall operate in a manner so that all emissions be emitted through designed chimney/ stack only.	Khadia Project is an opencast mine and there is no chimney / stack at mine premises.
10	In case of any damage to the agricultural productivity, human habitation, etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reports to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.	Project abides by the condition.
11	The applicant shall apply before the 60days of expiry of CCA or any change in production types/ production capacity / manufacturing process/ capacity enhancement, etc. or any change in effluent discharge point or emission point.	Project abides by the condition.
12	The board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.	Project abides by the condition.
Specific Conditions:		
1	This CTE is valid for 12.18 million ton coal production per annum in the 1332 ha. in Uttar Pradesh.	Project abides by this condition. Khadia Project will produce coal production within 12.18 million tonne per annum from 1332 Ha area falling in UP part of Khadia Area. The overall coal production of Khadia Project including UP and MP shall not exceed 15 MTPA.
2	Unit shall comply with the conditions of Environmental Clearance issued vide EC identification no. EC22A042UP184193, File no. J-11015/255/2006-IA-II(M) dated 27-07-2022 by MoEF&CC Govt of India and its compliance report shall be submitted to UPPCB.	Khadia Project is complying with the conditions of Environmental Clearance issued by MoEF&CC, Govt of India and its compliance reports will be submitted to MoEF&CC and UPPCB regularly


3	Industry shall comply with the conditions of CTE issued by UPPCB vide letter no. 162337/UPPCB/S onebhadra(UPPCBRO)/CTE/SONEBHADRA/2022 dated 02.10.2022 and its compliance report shall be submitted to UPPCB.	Khadia Project is complying with the conditions of CTE issued by UPPCB vide letter no. 162337/UPPCB/S onebhadra (UPPCBRO) /CTE/SONEBHADRA /2022 dated 02.10.2022. The compliance report has been submitted vide letter no. KHD/GM/Min/Env/UPPCB/22-23/3679 dated 19.11.2022
4	Unit shall operate and maintain installed APCS effectively to achieve the standards prescribed under E(P) Rules, 1986 as amended.	<p>The air pollution control measures are as below.:</p> <ul style="list-style-type: none"> • Mobile water sprinklers are deployed on haul roads. • Majority of coal is being transported through MGR (Rail Transport). • Fixed sprinklers around coal yard – I • Drills are provided with dust extractors. • All service roads are metaled. • Approach road to mines are covered with black topping. • Wetting of ROM coal before crushing in CHP. • Fully enclosed coal handling plant in operation. • Automatic water sprinklers are installed at receiving pit. • Routine maintenance and periodic over hauling of HEMM. • Thick green belts along mine and colony are provided. • Vegetative covers are provided on non active O.B. Dump • Deployment of truck mounted fog cannon (02 nos.) and Road sweeping machines (02 nos.) • Deployment of one no. of fixed fog cannon. <p>Continuous monitoring through CAAQMS.</p>
5	Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers preferably mist type mobile sprayers/sprinklers.	<p>Khadia Project is equipped with two no. of truck mounted fog cannon and one fixed fog cannon through which spraying is being done for control of fugitive emissions.</p> <p>Besides this water sprinklers both mobile and fixed are also provide to avoid generation of fugitive emission from road side.</p>



6	Unit shall utilize the fly ash as much as possible in construction activities and in development of roads. The fly ash utilization detail shall be submitted quarterly	Only fly ash bricks are being used in construction activities in the project. The fly ash utilization detail shall be submitted regularly by the project.
7	Unit shall properly operate Online Ambient Air Quality Monitoring System with data connectivity with CPCB and UPPCB server and its progress shall be submitted on quarterly basis	Continuous Ambient Air Quality Monitoring System has been installed and data connectivity with CPCB server has been provided.
8	Transportation of coal should be done through belt type conveyer and covered railway wagons.	Majority of coal from Khadia Project is being dispatched through MGR (dedicated rail transport system). Khadia Project has CHP of 10 MTY (4+6) capacity from which coal is being dispatched to Lanco Anpara Power Limited. To further augment rail transport capacity, a wharfwall is being constructed within the premises of Khadia Project. Subsequently, Rapid loading system is also proposed to be constructed at the site which is even more eco-friendly technology.
9	Unit shall maintain effective dust separation /collection system at Coal Handling and Transportation point in such manner so that Ambient Air Quality is not affected at nearby places and Ambient air quality shall be monitored and its report shall be submitted on quarterly basis to the UPPCB.	Fixed water sprinklers are fitted at all transfer points of CHP. CHP phase -I (04 MTY capacity) is also equipped with cyclone type dust extraction system and function properly. CHP phase-II (06 MTY capacity) is equipped with gyratory crusher, which is enclosed type crushing system. Further dry fog dust suppression system is also operation at transfer points of CHP. Further augmentation in the dust separation /collection system has been done. Ambient Air Quality at nearby places and Ambient air quality are being monitored and its reports are being submitted on quarterly basis to the UPPCB.
10	Unit shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com	Regular plantation is being done through U.P. Forest Deptt., Renukoot Division for dump reclamation and developing green belt. In the year 2022, 82500 saplings over an area of 33 Ha have been planted.
11	Proponent shall establishing Miyawaki forest as per the GO no. 1011/81-7-2021-09(rit)/2016 dated 13.10.2021 of Deptt. of Environment, forest and	A work order has been awarded to UP Forest Department for Miyawaki afforestation in 0.5 Ha area on 16.10.2022. Copy of the work order has

	climate change and shall submit time bound proposal for proposed plantation within 01 month	also been submitted to Regional Office, UPPCB, Sonbhadra.
12	Unit shall comply with the provisions of Hazardous and Other waste (Management & Transboundary Movement) Rule 2016	Rules under Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 are being complied with. Hazardous waste authorization has been obtained with authorization no. 16980 dated 19.07.2022 and is valid upto 18.06.2027.
13	Industry shall treat industrial effluent through ETP in such a manner to achieve the standard prescribed under Environment (protection) Rules 1986 and treated effluent shall be reused in vehicle washing, water sprinkling for dust suppression and horticulture. Industry shall upgrade the ETP in time bound manner.	Upgradation work for inclusion of multi-grade filter, activated carbon filter and filter press shall be completed by April'2023. The treated water from ETP is being reused in dust suppression, fire-fighting, green belt development etc.
14	Domestic effluent shall be treated through STP as per the standard prescribed under Environment (protection) Rules 1986 and treated water shall be reused for horticulture within premises.	Domestic effluent is being treated through STP of 1.5 MLD capacity and treated water is being used for horticulture within premises. Upgradation work of STP has been completed.
15	Industry shall not discharge any kind of effluent outside the premises and shall ensure ZLD.	Agreed. Khadia Project is operational with the principle of zero liquid discharge.
16	Treated effluent shall not be discharged in Rihand Reservoir in any case.	Agreed. Treated effluent is not being discharged in Rihand Reservoir.
17	Industry shall operate Electro Magnetic Flow meter at water resources, inlet and outlets of ETP and STP and shall provide data connectivity to CPCB server. The records of flow meter readings shall be maintained.	Flow meters have been installed at water resources, ETP and STP and records of the same are being maintained.
18	Industry shall operate PTZ camera at ETP and STP for surveillance of proper operation and shall provide the URL and password to the board within 01 month.	PTZ cameras are installed at ETP and STP of Khadia Area, NCL.
19	Water sprinkling shall be carried out regularly to suppress the dust emission. A log book shall be	Water sprinkling is regularly being done and log book is being maintained. Report shall be

	maintained	submitted to UPPCB regularly.
20	Unit shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.	Khadia Project is regularly submitting Environmental Statement. The Environment statement for FY 2021-22 has been submitted on 24.09.2022.
21	Unit shall abide by directions given by Hon'ble Court, Hon'ble NGT, Central Pollution Control Board and UPPCB for protection of safe guard of environment from time to time	Project abides by the condition.
22	Unit shall submit ambient air quality monitoring report of approved laboratory with 01 months and thereafter on quarterly basis.	Project abides by the condition. Khadia Project is regularly submitting Ambient air quality monitoring report of CMPDIL, Jayant.
23	Unit shall comply with the directions issued under Singrauli Action Plan in time bound manner.	Khadia Project is complying with the directions issued under Singrauli Action Plan.
24	Industry shall comply with the directions passed by Hon'ble Supreme Court in Civil Appeal No 4251-4252/2019 on 08-11-2019	Project abides by the condition.
25	Unit shall comply with the recommendations of Core committed constituted by Hon'ble NGT and submit the compliance report to supervisory committee and to the Board	Khadia Project is complying with the recommendations of core committee constituted by Hon'ble National Green Tribunal. Compliance report is regularly being submitted to UPPCB.
26	Unit shall comply with the relevant provisions of Environmental Laws	Khadia Project abides by this condition.


30/1/23
Staff Officer (Mining)
Khadia Area

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No. J-11015/255/2006-IA-II (M)
Government of India
Ministry of Environment, Forest & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 23rd March, 2016

To,

The General Manager (Env/IMS/SD)
M/s Northern Coalfields Limited
Khadia Opencast Project
Village Khadia, Tehsil Duddhi
District **Sonebhadra** - 231 222 (UP)

Sub: Khadia Opencast Coal Mine Expansion Project from 10 MTPA to 14 MTPA in an area of 1640 ha located in District Sonebhadra (UP) and in Tehsil Singrauli, District Sidhi (MP) of M/s Northern Coalfields Limited - Environmental Clearance reg.

Sir,

This is with reference to your letter No. NCL/Env/Khadia/Form-I/15/2210 dated 09.01.2015 and online proposal No. IA/UP/CMIN/19333/2007 on the above mentioned subject.

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 Khadia Opencast Coal Mine Expansion Project from 10 MTPA to 14 MTPA in an area of 1640 ha (Latitude 24° 07' 26" N - 24° 08' 47" N and Longitude 82° 41' 40" E - 82° 44' 47" E) located in District Sonebhadra (UP) in Tehsil Singrauli in District Sidhi (Madhya Pradesh) of M/s Northern Coalfields Limited.

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 29th meeting held on 15th -16th January, 2015, 37th meeting held on 11-12 June, 2015, 42nd meeting held on 31st August- 1st September, 2015, 44th meeting held on 8th -9th October, 2015 and 47th meeting held on 30th November - 1st December, 2015. The details of the project, as per the documents submitted by the Project Proponent (PP), and also as informed during the above said EAC meeting are reported to be as under: -

- (i) This is a case of expansion under clause 7 (ii) of the EIA Notification, 2006 with reference to O.M. No. J-15012/30/2004-IA.II (M) dated 30th May, 2014.
- (ii) Earlier EC was granted to the Khadia OCP vide letter No. J-11015/255/2006-IA.II (M) dated 10th April, 2007.
- (iii) The latitude and the longitude of the project are 24° 07' 26" N - 24° 08' 47" N and 82° 41' 40" E - 82° 44' 47" E respectively.
- (iv) Joint Venture: There is no Joint Venture.
- (v) Coal Linkage: Anpara STPS of UPRVUNL by Merry Go Round Rail system.
- (vi) The land usage of the project will be as follows: Pre-Mining:

S. No.	LAND USE	Within ML Area (Ha)	Outside ML area (Ha)	Total
1.	Tenancy Land(Agricultural land)	449.00	NIL	449.00
2.	Forest Land	844.00	NIL	844.00
3.	Wasteland	-	NIL	-

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4.	Grazing land	-	NIL	-
5.	Surface water bodies	-	NIL	-
6.	Settlements	-	NIL	-
7.	Others (Government land)	347.00	NIL	347.00
Total		1640.00	NIL	1640.00

Post- Mining:

S.No.	Land use during Mining	Land Use (ha)				
		Plantation	Water Body	Public Use	Others	TOTAL
1	External OB dump	258.00	-	-	-	258.00
2	Top soil dump	Top soil will be completely used in reclamation of dumps.				
3	Excavation	808.00	39.00	-	156.00 (Batter with plantation)	1003.00
4	Infrastructures (Workshop, CHP, Admn. Building & Roads)	49.00	-	81.00	-	130.00
5	Residential & Green belt	-	-	142.00	-	142.00
6	Undisturbed area (Forest land in Safety Zone)	107.00	-	-	-	107.00
Total		1222.00	39.00	223.00	156.00	1640.00

(vii) The total geological reserve is 335.95MT. The mineable reserve 296.85 MT, extractable reserve is 296.85 MT. The per cent of extraction would be 88.36%.

(viii) The coal grade is G-8. The stripping ratio is 4.23 M³/t (As per PR). The average Gradient is 2 to 4 degrees. There will be Three (03) seams with thickness ranging

Coal Seam	Thickness (m)	
	From	To
Purewa Top	8	10
Purewa Bottom	8	13
Turra	19	22

(ix) There is no change in the total estimated water requirement. The level of ground water ranges from 0.65 m to 14.45 m.

(x) The Method of mining would be opencast deploying dragline and shovel-dumper.

(xi) There is 2 external OB dump with Quantity of 254.33 Mbcm in an area of 258 ha with height of 90 meter above the surface level and 2 internal dump with Quantity of 1001.39 Mm³ in an area of 808ha.

(xii) The final mine void would be in 39 Ha with depth of 30 to 40 m. and the Total quarry area is 1003 Ha. Backfilled quarry area of 808 Ha shall be reclaimed with plantation. A void of 39 ha with depth of 30 to 40 m which is proposed to be converted into a water body.

(xiii) The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.

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- (xiv) The **life of mine** is 23/18 years (@ 10.0 MTPA @ 14.0 MTPA Balance life as on 1.04.2014).
- (xv) **Transportation:** Coal transportation in pit by rear dumpers, Surface to Siding by CHP to silo and loading at siding by CHP to rapid loading system (RLS) to rail wagons.
- (xvi) There is no **R & R** involved. There are no PAFs.
- (xvii) **Cost:** Total capital cost of the project is Rs. 2091.60 Crores. CSR Cost Rs. 2/- per tonne.
- (xviii) Cost Nil. Environmental Management Cost 26.98 Crores.
- (xix) **Water body:** There is no water body.
- (xx) **Approvals:** Board's approval obtained on 20.01.2004. Mine Plan / mine closure plan has been approved by NCL Board in the 197th Board meeting held on 28.07.2015.
- (xxi) **Wildlife issues:** There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- (xxii) **Forestry issues:** Total forest area involved 844 ha for mining. FC granted for complete land.

Area (Ha)	Stage-1 FC issued vide letter no. & date	Validity period of FC
750.00	Letter No. 8-298/87-FC dated: 30.07.1990	Up to Mine Life
180.00	Letter No. 8-85/2005-FC dated: 14.09.2010	Up to Mine Life

- (xxiii) Total **afforestation** plan shall be implemented covering an area of 1271 ha at the end of mining Green Belt over an area of 49.00 ha. Density of tree plantation 2500 trees/ ha of plants.
- (xxiv) There are no **court cases/violation** pending with the project proponent.
- (xxv) **Public Hearing** on 6th April, 2005, at Samudaik Bhawan, Waidhan, Singrauli(M.P) & on 18th April, 2006 at Collectrate Sabhagar, Dist. Headquarters, Lodhi, Sonebhadra (U.P). The issues raised in the PH includes Electricity connection in all the houses of Ambedkar Nagar was requested by Shri M.Gupta, Member, Zila Panchayat; Issues regarding rehabilitation of land oustees was raised by few members; Point regarding drinking water was raised by some of the participants; Mr. Zuber Alam pointed out that medical facilities are not sufficient and the R&R oustees may be given medical facilities.
- (xxvi) Comparative Chart of deployment of men, machinery be submitted. Pollution load in the area to be indicated.

a) **Comparative chart of deployment of Men:**

SI No.	Description	For 10 MTPA		For 14 MTPA
		As per PR	Actual as on 31.01.2015	
1	Manpower	2050	1433	No additional requirement

b) **Comparative chart of deployment of Machinery**

SI No	Machinery	As per PR for 10 MTPA	For 14 MTPA
1	Dragline	4	No additional requirement
2	Shovel	11	No additional requirement
3	Electric Drill	21	No additional requirement
4	Rear Dumper	52	No additional requirement
5	Dozer	17	No additional requirement
6	Grader	7	No additional requirement
7	Crane	6	No additional requirement
8	Water Sprinkler	4	No additional requirement

Actual machinery present as on date

SI No	Machinery	Actual at present
1	Dragline	2
2	Shovel	12
3	Electric Drill	14
4	Rear Dumper	45
5	Dozer	20
6	Grader	5
7	Crane	11
8	Water Sprinkler	1

- c) **Pollution load in the area:** The pollution load in the four stations within the core and buffer zones of Khadia OCP for two quarters has been monitored w.r.t. PM₁₀, SO₂ & NO_x and found to be within the permissible limits

(xxvii) The application for 180 ha forest land in the state of M.P. required for Khadia Expn. Project (10MTPA) was submitted on 09/03/2005. Stage –II clearance of the above land was granted on 14/09/2010. The possession of the land was handed over on 30.09.2013. Thus the delay in transferring of land resulted in subsequent delay in Khadia Expn. Project (10 MTPA). The procurement of dragline as per schedule (PR) is 2 Nos. up to 2013-14, 1 additional dragline in 2014-15 and 1 more in 2015-16. According to this the full capacity of 10 MTPA is to be reached in 2015-16/16-17. But due to shortage of coal the production is to be increased beyond 10 MTPA in 2015-16. Presently the working is being carried out in West section and in East section box cut is being opened, after that dragline will be deployed and production shall be increased substantially in 2015-16 as two sections will operate at the same time.

(xxviii) The only significant impact shall be on Ambient Air Quality (AAQ) which has been analyzed in detail and the total predicted concentration for different production capacities has been generated through AQIP computer model. It was noted that the AAQ level with 14 MTPA production is within the permissible limits.

(xxix) The order for installation of piezo-meters (drilling and construction) has been placed recently on 25.02.2015 for 6 nos. piezo-meters in Khadia OCP. The reasons for delay was mainly due to non-participation of adequate bidders for the tender. Some of the bidders did not qualify for the work.

(xxx) No coal will be transported by road for the increased capacity of 6 MTPA CHP is under construction and the same will be ready by 2017-18 when the increased production is scheduled to be achieved.

(xxxi) Final stage post mining reclamation plan has been prepared considering complete back filling of voids at the end of mining. Mine Closure plan has been revised accordingly. As informed by PP no handling of external OBD will be done and only progressive mined out OB will be filled in the mine void.

(xxxii) Every year plantation is being done through U.P. Forest Department. The dump reclamation is a continuous process and the land is reclaimed immediately after the completion of the dump (external and internal). As per the suggestion of the committee the mine void at the end of mining shall be filled up with OB and totally reclaimed through bio-reclamation. The mine void shall be preferably filled up by OB from neighbouring adjacent mines.

(xxxiii) Mine Plan / mine closure plan has been approved by NCL Board in the 197th Board meeting held on 28.07.2015.

(xxxiv) Details of year wise O.B. removal; Details of year wise Coal Production (Actual); Details of year wise Coal Production (Proposed); Details of year wise Coal Dispatch; Year wise plantation done so far & future programme been submitted.

(xxxv) **Action plan for completion of CHP of 6 MTPA:** Construction work of CHP (6 MTY) has already been started in OCT 2014 with completion schedule of 24 Months and CHP will be operational in FY 2016-17 by OCT- 2016. Major equipment like apron feeders, plough feeders, rapid loading system etc. have been received at site. At present pace of construction work, CHP will be commissioned by October 2016.



Detailed Action Plan for CHP construction as follows:

Major activities	Civil & Structural Works	Completion of Work (including equipment)	Status as on date (Nov 2015)
Receiving pit & tunnel area	20 JUL 2016	30 SEP 2016	On time
Ground bunker	14 SEP 2016	28 SEP 2016	Ahead of scheduled time
Silo	10 SEP 2016	21 SEP 2016	On time
Conveyor systems & transfer points	APR TO SEP 2016	END OF SEP 2016	On time

(xxxvi) **Submission of requirement for (road transport) 10% of production for e-auction** : Already dispatching coal through e-auction to small consumers at present, therefore, provision of dispatch of coal by road up to 10% of the EC capacity may be considered for meeting the demands of the small consumers of varied industries (Bricks, Foundries, Ceramics and other small industries). There is a government guideline for e-auction of 10% of the production vide MOC, GOI, OM No. 23011/4/2007-CPD Dtd. 18th October 2007 {Clause No. 10(v)}. Presently, part dispatch is also being done by Road to LANCO Power Plant, which may be allowed to be continued until the New CHP is made operational.

(xxxvii) **EC Compliance report: The compliance report of the**, Regional Office, MoEFCC at Lucknow vide letter no. No. IV/ENV/UP/mine-5/67/1992 dated 18.07.2013 was deliberated in the EAC meeting. The Committee has noted the Action taken for compliance by the project proponent.

4. The EAC, after detailed deliberations on the proposal in its 47th EAC meeting held on 30th November - 1st December, 2015 has recommended the project for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the **Khadia Opencast Coal Mine Expansion Project from 10 MTPA to 14 MTPA in an area of 1640 ha located in District Sonbhadra (UP), and in Tehsil Singrauli, District Sidhi (MP) of M/s Northern Coalfields Limited**, under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms and conditions and environmental safeguards as mentioned below:-

A. Specific Conditions:

- i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- ii. The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.
- iii. All the measures detailed in Mining Plan and Mine Closure Plan shall be implemented.
- iv. OB from Dhudhichua mine shall be used for for backfilling of mine void. At the mine closure 39 ha of void will be filled to near ground level.
- v. The CHP will be completed by October, 2016 which will meet the production of 10 MTPA plus some additional requirements.
- vi. The additional production should be met after the completion of the CHP.
- vii. Presently road transport of coal TO Anpara TPP will be converted into rail dispatch after the completion of the Khadia new CHP and the railway siding at Anpara TPP.
- viii. The proposal for road transport of the e-auction coal which is up to 10 per cent of the production is agreed
- ix. The production shall be within the same Mining Lease area.
- x. The OB shall be completely re-handled at the end of the mining.
- xi. Garland drains be provided.
- xii. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xiii. The land after mining shall be brought back for agriculture purpose.

- xiv. Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.
- xv. The CSR cost should be as per the prevalent policy of Ministry of Coal or the Coal India Limited.
- xvi. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.
- xvii. Dust mask to be provided to everyone working in the mining area.
- xviii. The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.
- xix. People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
- xx. The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.
- xxi. The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- xxii. There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- xxiii. OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28° . Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forests & Climate Change and its concerned Regional office on yearly basis.
- xxiv. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- xxv. Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- xxvi. Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
- xxvii. Drills shall be wet operated.
- xxviii. The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,
- xxix. Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- xxx. A Progressive afforestation plan shall be implemented at the end of mining, which includes reclaimed External OB dump area (**258 ha**), Internal OB dump area (**808 ha**) and Green belt (**49 ha**) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around **2500** plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.
- xxxi. An estimated total **1255.72 Mm³** of OB will be generated during the entire life of the mine. Out of which **254.33 Mm³** of OB will be dumped in two external OB Dumps an earmarked area covering **258 ha** of land. **1001.72 Mm³** of will be two internal OB dump in covering an area of **808 ha**. The maximum height of external OB dump will not exceed **90 m**. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.
- xxxii. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxiii. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
- xxxiv. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.


- xxxv. No groundwater shall be used for mining operations.
- xxxvi. Of the total quarry area of **1003 ha**, the backfilled quarry area of **808 ha** shall be reclaimed with plantation and a void of **39 ha** which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
- xxxvii. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.
- xxxviii. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- xxxix. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
- xl. Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
- xli. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
- xl.ii. For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEFCC and its concerned Regional office
- xl.iii. A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.
- xl.iv. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- xl.v. Corporate Environment Responsibility:
 - a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
 - c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions:

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned


- Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- v. Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
 - vi. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
 - vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
 - viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
 - ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
 - x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
 - xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
 - xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
 - xiii. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at <http://envfor.nic.in>.
 - xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
 - xv. A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
 - xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.
 - xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
 - xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
 - xix. The Environmental statement for each financial year ending 31 March in For -V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.

5. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, presentation to the EAC and also the issues raised during Public Hearing.
6. The proponent is required to 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.
7. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.
8. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
9. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.
10. 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.
11. This EC is in supersession to the earlier EC granted to the project vide letter No.J-11015/255/2006-IA.II (M) dated 10th April, 2007 for 10 MTPA in an area of 1640 ha.


 23/3/2016
 (S. K. Srivastava)
 Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, B-1/272, Sector K, Aliganj, **Lucknow** - 226020
3. The Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, **Bhopal** - 462016
4. The Secretary, Environment Department, Government of Uttar Pradesh, Secretariat, Lucknow
5. The Secretary, Department of Environment & Forests, Government of MP, Secretariat, Bhopal (MP)
6. The Member Secretary, Uttar Pradesh State Pollution Control Board, Building. No. TC-12V, VibhutiKhand, Gomti Nagar, Lucknow-226 010, Uttar Pradesh
7. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016
8. The Member Secretary, CPCB, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
9. The Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
10. District Collector, Sonbhadra, Government of Uttar Pradesh.
11. The District Collector, Sidhi (Madhya Pradesh)
12. Monitoring File 13. Guard File 14. Record File 15. Notice Board


 23/3/2016
 (S. K. Srivastava)
 Scientist E

ENVIRONMENTAL
CLEARANCE

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

To,

The General Manager
Northern Coalfields Ltd. (NCL)
General Manager Khadia ,P.O. Shaktinagar, Distt.:Sonebhadra, Uttar
Pradesh PIN 231222,,Sonbhadra,Uttar Pradesh-231222

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/UP/CMIN/271949/2022 dated 09 Jul 2022. The particulars of the environmental
clearance granted to the project are as below.

1. EC Identification No.	EC22A042UP184193
2. File No.	J-11015/255/2006-IA-II(M)
3. Project Type	Expansion7
4. Category	A
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Khadia Opencast Project
7. Name of Company/Organization	Northern Coalfields Ltd. (NCL)
8. Location of Project	Uttar Pradesh
9. TOR Date	N/A

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

Date: 27/07/2022

(e-signed)
Lalit Bokolia
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.*

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F. No. J-11015/255/2006-IA-II(M).

Government of India

Ministry of Environment, Forest and Climate Change

(Impact Assessment Division)

2nd Floor Vayu Wing,
Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi - 3
Email: lk.bokolia@nic.in Tel: 011-20819417

Dated: 27th July, 2022

To

The General Manager (Khadia Project),
M/s Northern Coalfields Ltd,
P.O. Shaktinagar, Distt: Sonbhadra,
Uttar Pradesh PIN 231222
Email: gmenv@ncl.gov.in; gmenv_ncl@coalindia.in, cgm.khd@gmail.com

Sub: Expansion of Khadia opencast coal mining project for increase in production capacity from 14 MTPA to 15 MTPA (increase of 10% w.r.t 10 MTPA) in land area of 1640 Ha by M/s Northern Coalfields Ltd, located in the village Khadia, Tehsil Dudhi, District Sonbhadra (UP) & village Dhudhichua, Tehsil Singrauli, District Singrauli (M.P.)- Environmental Clearance under OM vide no. F. No. IA3-22/10/2022-IA.III 07.05.2022- [Availing total 50% relaxation of OM dealing with exemption of public hearing under clause 7 (ii) of EIA notification].

Sir,

This has reference to your online proposal No. IA/UP/CMIN/271949/2022 dated 11th July, 2022 submitted to this Ministry for grant of Environmental Clearance (EC) in terms of the provisions with MoEF & CC's Office Memorandum vide no. F. No. IA3-22/10/2022-IA.III (E 177258) dated 07.05.2022 and as per EIA Notification, 2006) of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 for Expansion of Khadia opencast coal mining project for increase in production capacity from 14 MTPA to 15 MTPA (increase of 10% w.r.t 10 MTPA) in land area of 1640 Ha by M/s Northern Coalfields Ltd, located in the village Khadia, Tehsil Dudhi, District Sonbhadra (UP) & village Dhudhichua, Tehsil Singrauli, District Singrauli (M.P.).

2. The proposal was granted EC for production capacity of 10 MTPA in ML area of 1640 Ha dated 10.04.2007. Further EC was granted for expansion under Clause 7 (ii) of EIA notification, 2006 on 23.03.2016 as per the O. M. dated 30.05.2014 for total 40 % expansion i.e. 14 MTPA production capacity in ML area of 1640 Ha. Presently the proposal is considered by the Ministry in view of the exigency, as per the provisions of O.M. F. No. IA3-22/10/2022-IA.III dated 07.05.2022 and abeyance vide MoEF&CC's OM dated 28.01.2022 on OM no. 22-23/2018-IA.III(Pt.) dated 31.10.2019 on mechanism for consideration of proposal of critically/ severally polluted area and abeyance on above OM has been lifted vide OM dated 05.07.2022

3. Based on the submission of Project Proponent, Ministry hereby grants approval to Expansion of Khadia opencast coal mining project for increase in production capacity from

Page 1 of 3

14 MTPA to 15 MTPA (increase of 10% w.r.t 10 MTPA) in land area of 1640 Ha by Northern Coalfields Ltd, located in the village Khadia, Tehsil Dudhi, District Sonbhadra (UP) & village Dhudhichua, Tehsil Singrauli, District Singrauli (M.P.) under the provisions of OM vide no. F. No. IA3-22/10/2022-IA.III 07.05.2022, under the Environment Impact Assessment (EIA) Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions for environmental safeguards as stated below:-

- i. PP shall submit Certified Compliance Report of the EC vide No. F. No. J-11015/255/2006-IA-II(M) dated 23/03/2016 granted for total 40% expansion, along with EIA/EMP report, prepared based on standard ToRs for the additional capacity of 10% on PARIVESH portal within six months of enhancement of production beyond 40%.
- ii. In view of above (i), Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.
- iii. PP shall obtain necessary prior consent for enhanced capacity from State Pollution Control Board under Air and Water Act.
- iv. Environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.
- v. Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent".
- vi. All other terms and conditions as prescribed in Ministry's letter dated 10.04.2007, and 23.03.2016 shall remain the same and need to be complied by PP.

Additional Specific conditions as the area falls under Severely Polluted Areas (SPAs)

- (i) Transportation of materials by rail/conveyor belt shall be implemented
- (ii) Encourage use of cleaner fuels for trucks, If the roads required to be widened upto nearest railway siding, the same be constructed to avoid traffic congestion.
- (iii) Increase green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.
- (iv) Greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be implemented.
- (v) Assessment of carrying capacity of mine & road transportation shall be done as per the State Plan/instructions.
- (vi) Reuse/recycle of treated wastewater shall be implemented as feasible with latest technology. Zero liquid discharge concept may be adopted.
- (vii) PP to install Continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so generated shall be linked with respective SPCB and CPCB websites.

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- (viii) A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.
- (ix) The project proponent shall install STP for generated domestic wastewater and should meet for discharge standards.
- (x) More stringent norms for management of hazardous waste like oil container, ETP sludge etc shall be adopted. The waste generated should be preferably utilized in co-processing.
- (xi) Monitoring of compliance of EC conditions may be submitted with third party audit every year.
- (xii) Fund allocation for Corporate Environment Responsibility (CER) which is atleast 1.5 times as per OM of 1st May, 2018 may now be considered as 1.5 times of fund allocated on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

This issues with the approval of the competent Authority



(Lalit Bokolia)
Director

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Chief Conservator of Forests (Central), Ministry of Environment and Forests, Regional Office, B-1/272, Sector K, Aliganj, Lucknow
3. The APCCF, MOEF&CC, Regional Office(EZ), E-5 Arera Colony, Bhopal - 462 016
4. The Secretary, Environment Department, Government of U.P., Secretariat, Lucknow
5. The Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
8. The Member Seretary, Uttar Pradesh State Pollution Control Board, Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow (U.P.)
9. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462 016
10. The District Collector, Sonbhadra, Government of Uttar Pradesh
11. The District Collector, Singrauli, Government of Madhya Pradesh
12. Monitoring File/Guard File/Record File
13. PARIVESH Portal



(Lalit Bokolia)

Signature Not Verified

Digitally signed by Lalit Bokolia
Scientist Page 3 of 3

Date: 7/27/2022 3:35:34 PM

नॉर्थर्न कोलफील्ड्स लिमिटेड
खड़िया परियोजना
(मिनिरातना कंपनी)
(कोल इण्डिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited
Khadia Project
(A Miniratna Company)
(A subsidiary of Coal India Limited)

Office of General Manager



CIN- U*0102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

थाना-शक्तिनगर, जिला-सोनभद्र (उ०प्र०) पिन-231222/ Thana-Shaktinagar, Dist. Sonebhadra (U.P.) Pin- 231222

Phone: 05446- 232274, (FAX) 05446- 232274 Email: cgm.khd@gmail.com, website : www.nclcil.in

Ref: NCL/KHD/Env/MoEF- Lucknow/23-24/3887

Date: 26/05/2023

To
The Director,
Ministry of Environment, Forest & Climate Change
Regional Office (Central Sector),
Kendriya Bhawan, 5th Floor,
Sector 'H', Aliganj,
Lucknow - 226024

Sub. : Submission of six monthly EC conditions compliance report for the period 01.10.2022 to 31.03.2023

Dear Sir,

Please find enclosed herewith the six monthly EC conditions compliance report for the period 01.10.2022 to 31.03.2023 pertaining to Khadia Project (15 MTY) along with necessary documents details of which are as follows:

- 1) Compliance report of the E.C. conditions.
- 2) The Air, Water, Noise monitoring report of Khadia Project for Quarter Ending December'22 and Quarter Ending March'23.
- 3) The Ground water monitoring report of Khadia Project for Quarter Ending December'22 and Quarter Ending March'23.
- 4) Audited balance sheet of Khadia Area for FY 2022-23

We hope that you will find the report in order.

Encl. : As above

Yours faithfully,

[Signature]
26/5/23
General Manager,
Khadia Area
R R

Copy to :-

- (1) Regional Director, Central Pollution Control Board, Picup Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow - 226010
- (2) The Regional Officer, U.P. Pollution Control Board, H.No. 162, Uttar Mohal, Robertsganj (U.P.)
- (3) The GM(Env.), NCL, Singrauli

COMPLIANCE REPORT OF THE LETTER NO.J-11015/ 255 / 2006 - IA.II(M) FROM MOEF&CC, NEW DELHI DTD. 27.07.2022 PERTAINING TO ENVIRONMENTAL CLEARANCE FOR KHADIA OPENCAST COAL MINE EXPANSION PROJECT (15 MTPA)

Sl. No.	Conditions	Status												
i.	PP shall submit certified compliance report of EC vide no. F. No. J-11015/255/2006-IA.II(M) dated 23.03.2016 granted for total 40 % expansion, along with EIA/EMP report, prepared based on standard ToRs for the additional capacity of 10 % on PARIVESH portal within six months of enhancement of production beyond 40 %.	The certified compliance report for EC of 14 MTPA and EIA/EMP report for 15 MTPA prepared based on Standard ToRs has been submitted to MoEF&CC through Parivesh Portal on 18.01.2023.												
ii.	In view of above (i), Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.	Project agrees to this condition.												
iii.	PP shall obtain necessary prior consent for enhanced capacity from state pollution control board under Air & Water Act	<div>Khadia Project has obtained CTO from both UPPCB and MPPCB under Air & Water Act for enhanced production. The details of CTO are as follows.</div> <table><tr><th>Sl. No.</th><th>SPCB</th><th>Consent No.</th><th>Validity of consent</th></tr><tr><td>1</td><td>MPPCB</td><td>AW-57297 dated 28.12.2022</td><td>31.12.2023</td></tr><tr><td>2</td><td>UPPCB</td><td>166971 issued on 12.12.2022</td><td>31.12.2024</td></tr></table>	Sl. No.	SPCB	Consent No.	Validity of consent	1	MPPCB	AW-57297 dated 28.12.2022	31.12.2023	2	UPPCB	166971 issued on 12.12.2022	31.12.2024
Sl. No.	SPCB	Consent No.	Validity of consent											
1	MPPCB	AW-57297 dated 28.12.2022	31.12.2023											
2	UPPCB	166971 issued on 12.12.2022	31.12.2024											
iv.	Environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and same shall be maintained as per prescribed norms.	Agreed. Environmental quality parameters arising out of the expansion from 14 MTPA to 15 MTPA are kept within prescribed norms and shall be maintained.												
v.	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &	Khadia Project, NCL has prepared a mine plan and mine closure plan for 15 MTPA (Approved by NCL Board on 30.05.2022).												

	<p>Ors vide its judgement dated 08th January 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after mining activity is over at the cost of mining lease holders/ project proponent.</p>	<p>As per mine plan of 15 MTPA, out of total 1640 Ha lease hold area, plantation will be done in around 1378 Ha. Cost of this plantation shall be borne by NCL. Plantation is continuously being done through UP forest department. In FY 2022-23, plantation was done on 33 Ha of overburden dump area and 0.5 Ha of Miyawaki afforestation on plain area. In FY 2023-24, plantation on 13.39 Ha of overburden area is proposed to be done in monsoon season.</p>
vi.	<p>All other terms and conditions as prescribed in Ministry's letter dated 10.04.2007 and 23.03.2016 shall remain the same and need to be complied by PP.</p>	<p>All other terms and conditions as prescribed in Ministry's letter dated 10.04.2007 and 23.03.2016 are being complied. Compliance statuses of these conditions are given below.</p>
Additional Specific conditions as the area falls under Severely Polluted Areas (SPAs)		
(i)	<p>Transportation of material by rail / conveyor belt shall be implemented</p>	<p>Khadia Project, NCL (Capacity 15 MTPA) is currently equipped with Coal Handling Plants of 04 MTPA and 06 MTPA, through which coal is being dispatched through Merry-Go-Round Arrangement. In addition to this, currently approx. 2.19 MTPA of coal is being dispatched through Krishnashila CHP and approx. 02 MTPA is being dispatched through Jhingurdah Wharf wall.</p> <p>In addition to above, an additional Rapid Loading System of 04 MTPA is proposed to be constructed at Khadia Project, NCL.</p>
(ii)	<p>Encourage use of cleaner fuel in trucks, if the roads required to be widened up to nearest railway siding, the same be constructed to avoid traffic congestion.</p>	<p>Khadia Project is equipped with three nos. of draglines, which are not only electricity driven but also reduces truck movement (which would otherwise be required for transportation of overburden).</p> <p>Besides, maximum of coal is being transported through Coal Handling Plants of 04 MTY and 06 MTY and are electricity driven, which also reduces truck movement (which would otherwise be required for transportation of coal).</p>

		Further, an additional Rapid Loading System of 04 MTPA is proposed to be constructed at Khadia Project, NCL, which shall be powered through electricity.
(iii)	Increase green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	As per mine plan of 15 MTPA, out of total 1640 Ha lease hold area, plantation will be done in around 1378 Ha. Plantation is continuously being done through UP forest department. In FY 2022-23, plantation was done on 33 Ha of overburden dump area and 0.5 Ha of Miyawaki afforestation on plain area. In FY 2023-24, plantation on 13.39 Ha of overburden area and 0.32 Ha of plain area is proposed to be done in monsoon season.
(iv)	Green belt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be implemented.	Green belt outside the project premises is being done by M/s Northern Coalfields Limited. In FY 2022-23, plantation on 100 Ha 220 Ha area outside the premises of Northern Coalfields Limited was done through UP Forest Department and Singrauli forest division of MP Forest Department respectively. For FY 2023-24, Work order has already been issued to Renukoot Forest Department for plantation on 150 Ha and to Singrauli Forest Division for plantation on 325 Ha.
(v)	Assessment of carrying capacity of mine and road transportation shall be done as per the state plan/ instructions.	Carrying capacity of the mine and traffic study is being done through Central Mine Planning Design Institute.
(vi)	Reuse / recycle of treated waste water shall be implemented as feasible with latest technology. Zero liquid discharge concepts may be adopted.	The mine water is treated through Effluent Treatment Plant (38.4 MLD) and the treated water is used for spraying on haul roads, fire fighting, green belt development etc. Zero discharge condition is being maintained. Also, Waste generated from colony premises is being treated in Sewage Treatment Plant of 1.5 MLD capacity and based on Moving Bed Biofilm Reactor (MBBR) and Dual Media Filter & Activated Carbon Filter and treated water is being used in horticulture.
(vii)	PP to install continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so	Khadia Project has already installed one no. of continuous ambient air quality monitoring station with connectivity to CPCB and SPCB portal. Khadia Project is also in the process of installation

	generated shall be linked with respective SPCB and CPCB websites.	85 of CEQMS at ETP of Khadia area and likely to be completed by August'2023.												
(viii)	A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.	Khadia Project is currently equipped with 07 nos. of rain water harvesting structures. Further a detailed water augmentation plan is under preparation by CMPDIL and shall be submitted to Regional Office of MoEF&CC.												
(ix)	The project proponent shall install STP for generated domestic waste water and should meet for discharge standards	Khadia Project is already equipped with sewage treatment plant of 1.5 MLD capacity and treated water is being reused in horticulture.												
(x)	More stringent norms for management of hazardous waste like oil container, ETP sludge etc shall be adopted. The waste generated should be preferably utilised in co-processing.	Hazardous wastes are being handled as per Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 and an authorisation under this rule has also been obtained from UP Pollution Control Board with authorisation no. 16980 and validity upto 11.07.2027. In FY 2022-23, 150 KL burnt oil has been lifted through authorised recyclers till Mar'23 and 10.03 tonne of oil containing wastes has been disposed through M/s Bharat Oil & Waste Management, Kanpur.												
(xi)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Project abides by this condition. A third party audit by the team of ICFRE has been held in the month of December'2021 and report of the same has been received in Jan'23. A third party audit will be conducted every year in compliance of the condition.												
(xii)	Fund allocation for Corporate Environment Responsibility (CER) which is atleast 1.5 times as per OM of 1 st May , 2018 may now be considered as 1.5 times of fund allocated on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item wise details along with time bound action plan shall be prepared and submitted to the Ministry's regional office.	<p>Project abides by this condition. In this regard, a committee has been constituted at project level and the committee is under discussion with local villagers for the purpose of assessment of work required to be done.</p> <p>Besides this, truck mounted fog cannon (02 nos.) and road sweeping machine (02 nos.) are deployed on state highway besides khadia Project. Expenditure incurred on these machines are as tabulated below.</p> <table><tr><th>Sl. No.</th><th>Activity</th><th>Financial Year</th><th>Expenditure incurred</th></tr><tr><td>1</td><td>Deployment of truck mounted fog cannon</td><td>Procured in 2019-20 and currently operational</td><td>43.54 Lakhs</td></tr><tr><td>2</td><td>Deployment</td><td>Procured</td><td>53.71 Lakhs</td></tr></table>	Sl. No.	Activity	Financial Year	Expenditure incurred	1	Deployment of truck mounted fog cannon	Procured in 2019-20 and currently operational	43.54 Lakhs	2	Deployment	Procured	53.71 Lakhs
Sl. No.	Activity	Financial Year	Expenditure incurred											
1	Deployment of truck mounted fog cannon	Procured in 2019-20 and currently operational	43.54 Lakhs											
2	Deployment	Procured	53.71 Lakhs											

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	based Road Sweeping Machine	and currently operational	
3	Deployment of self propelled Road Sweeping Machine	Procured in 2020-21 and currently operational	138 Lakhs
4	Deployment of additional truck mounted Fog cannon on hiring basis	Hired in 2022-23	51.88 Lakhs/Annum including Diesel Cost
5	Expenditure incurred on manual brooming of road from Gate no.3 to over bridge.	2022-23	19.91 Lakhs

COMPLIANCE AGAINST CONDITIONS MENTIONED IN LETTER NO.J-11015/ 255 / 2006 - IA.II(M) FROM MOEF&CC, NEW DELHI DTD.23.03.2016

2006 - 1A.II(M) FROM MOEF&CC, NEW DELHI DTD.23.03.2016

Sl. No.	Conditions	Status																																
4 A	Specific Condition																																	
i	The maximum production from mine at any given time shall not exceed the limit as prescribed in the EC.	<p>The maximum production from mine has never been exceeded and will never exceed the limit prescribed in the EC. Coal Production since grant of EC is as follows.</p> <table><tr><th>Year</th><th colspan="3">Coal Production (in Million T)</th></tr><tr><td></td><th>In UP</th><th>In MP</th><th>Total</th></tr><tr><td>2015-16</td><td>2.325</td><td>4.410</td><td>6.735</td></tr><tr><td>2016-17</td><td>3.453</td><td>2.553</td><td>6.006</td></tr><tr><td>2017-18</td><td>5.163</td><td>3.637</td><td>8.8</td></tr><tr><td>2018-19</td><td>6.958</td><td>4.442</td><td>11.4</td></tr><tr><td>2019-20</td><td>8.302</td><td>4.881</td><td>13.183</td></tr><tr><td>2020-21</td><td>7.8905</td><td>6.1095</td><td>14.00</td></tr></table>	Year	Coal Production (in Million T)				In UP	In MP	Total	2015-16	2.325	4.410	6.735	2016-17	3.453	2.553	6.006	2017-18	5.163	3.637	8.8	2018-19	6.958	4.442	11.4	2019-20	8.302	4.881	13.183	2020-21	7.8905	6.1095	14.00
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		2022-23	9.730	5.269	15.00
li	The validity of the EC is for the life of the mine or as specified in the EIA Notification, 2006, whichever is earlier.	Validity of the EC shall be as specified in the EIA Notification, 2006.			
lii	All the measures detailed in Mining Plan and Mine Closure Plan shall be implemented.	All the measures detailed in Mining Plan and Mine Closure Plan such as CHP, covered conveying system, delay detonator in blasting, plantation etc. are being implemented by Khadia Project.			
lv	OB from Dudhichua mine shall be used for backfilling of mine void. At the mine closure 39 ha of void will be filled to near ground level.	Will be done at the time of mine closure.			
v	The CHP will be completed by October, 2016 which will meet the production of 10 MTPA plus some additional requirements.	The construction of additional CHP (6 MTY) has been completed. 10 MTPA plus some additional coal is being dispatched through CHP.			
vi	The additional production should be met after completion of CHP.	The additional production of coal is being done only after construction of additional CHP. New CHP was commissioned in March 2018 and Khadia Project crossed 10 MTPA mark in 2018-19.			
vii	Presently road transport of coal to Anpara TPP will be converted to rail dispatch after the completion of the Khadia new CHP and the railway siding at Anpara TPP.	The new CHP has been linked with MGR system and the majority of current transport is being done through MGR dispatch.			
viii	The proposal for road transport of the e-auction coal is up to 10 percent of the production is agreed	<p>Khadia Area is equipped with CHP of 10 MTY, through which coal is being dispatched through merry-go-round arrangement.</p> <p>Besides that, infrastructure of other projects of NCL is being utilised for coal transportation through rail mode. Around 2.19 MT / Annum of coal is being dispatched using CHP of Krishnashila project and approx. 2 MT/Annum is being dispatched through Jhingurdah Wharfwall.</p> <p>Further Khadia Project is envisaging construction of an additional Rapid Loading System (RLS) of 04 MTY capacity.</p>			
ix	The production shall be within the same mining lease area	The production is being done within the same mining lease area.			
x	The OB shall be completely re-handled at the end of the mining.	Will be Completed at the end of mine life.			
xi	Garland drains be provided	<p>Garland drain of around 7.8 KM has been provided to avoid siltation.</p> <p>Besides the above, there are kutchha garland drains provided at many locations along the infrastructure area, on intermediate terraces of both the external waste dumps, etc.</p> <p>Regular cleaning / sit removal from these drains also</p>			

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		takes place before onset of monsoon.
Xii	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Not Applicable as there is no river / nallah flowing near or adjacent to the mine.
xiii	The land after mining shall be brought back for agriculture purpose.	Will be Complied at the end of mine life.
Xiv	Mine water should be treated for discharge into the lagoon. The quality of the lagoon water shall be regularly monitored and mitigation measures taken.	The mine water is treated through Effluent Treatment Plant (38.4 MLD) and the treated water is used for spraying on haul roads, fire fighting, green belt development etc..
Xv	The CSR cost should be as per the prevalent policy of Ministry of Coal or the Coal India Limited.	<p>CSR cost is as per prevalent policy i.e. 2% of the average net profit of the immediate preceding three financial years or Rs. 2 per tonne of coal production of previous year whichever is higher.</p> <p>Total CSR expenditure of last 05 years is as under :-</p> <p>2018-19 = 3.85 crore</p> <p>2019-20 = 5.66 crore</p> <p>2020-21 = 5.25 crore</p> <p>2021-22 = 6.84 Crore</p> <p>2022-23 = 5.43 Crore</p>
Xvi	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Everybody in the core area has been provided dusk mask for protection against fugitive dust emissions.
Xvii	Dust mask to be provided to everyone working in the mining area.	<p>Everyone working in the mining area are being provided dusk mask.</p> <p>Details of dust masks distributed in last 05 years is as under :-</p> <p>2018-19 = 4048</p> <p>2019-20 = 10160</p> <p>2020-21 = 6045</p> <p>2021-22 = 9535</p> <p>2022-23 = 3619</p>
Xviii	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	All the supervisory staff have been instructed to ensure strict compliance regarding wearing of dust mask by mine personnel in the core area.
Xix	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mining area.	The periodical health checkup of more than 20% mine workers is being done annually at company hospital for compliance of the provisions of The Mines Rules, 1955.
Xx	Mining area should be grounded by green belt having thick closed thick canopy of the tree cover.	<p>Greenbelt plantation (2.0 - 2.5 running km) comprising of both planted as well as natural trees is located along the southern boundary starting from behind the Weigh Bridge-1 towards east. The vegetation growth is approximately more than 15 years old.</p> <p>Khadia mine is surrounded by Krishnashila mine in the east and Dudhichua Mine in the west. In the southern side of the mine, green belt has been developed.</p>

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		In the North of the mine lies protected forest in M state. Rs. 45 Lakhs have been deposited to MP Forest Department for safety zone plantation.
Xxi	The embankment constructed along the river boundary shall be of the suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilized with plantation so as to withstand the peak water flow and prevent water inundation.	There is no river near the mine premises.
Xxii	There shall be no overflow of OB into the river and into the agricultural fields and massive planation of native species shall be taken up in the area between river and the project.	There is no river near the mine premises. Massive planation is being done on Overburden dumps through UP forest department. Gabion wall/retaining wall are constructed wherever necessary to avoid siltation.
Xxiii	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest & Climate Change and its concerned regional office on yearly basis.	The height and width of benches in OB dumps are maintained within permissible limits and wherever possible stabilised with plantation. The external as well as internal dumps have not achieved its projected height (500m above MSL). Back filling and concurrent reclamation is a continuous process. Approx. 194.5 Ha OB dump area (70 Ha internal and 124.5 Ha external) has been reclaimed as on date by plantation through UP Forest deptt. The ultimate slope of the dump will not exceed 28°. Monitoring and management of reclaimed dump site is continued. The compliance status is being regularly submitted to the Ministry of Environment & Forest, Regional office located at Lucknow & Bhopal.
Xxiv	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	As per design, there are different types of structures implemented as per the suitability of the ground condition. <ol style="list-style-type: none"> 1. The retaining wall of total length of 4.150 KM has been constructed. Retaining walls will be further constructed as per requirement as mine progresses. 2. Garland drains of a total length of 7.8 km along both the east and west dumps put together as well as quarry are provided in the lease area. 3. Smooth draining of surface water along haul/approach road is made possible by implementing catch drains, which are surface drains to intercept, collect and lead the flow of water in order to prevent water inrush on road and other related infrastructure facilities and are designed as per the rainfall density and elevational gradient of the area. Catch drains of appropriate type, length and dimensions with a total length of 3.320 Km have been provided, which is regularly being desilted.

		<p>4. Water so collected is being treated in ETP and reused in watering the mine area, roads, green belt development, etc</p> <p>5. There are three mine sumps viz., S-1 at eastern section as well as S- 2A and S-3 at western section. Both S-1 and S-3 sumps are being utilized as surface water source for mining related activities. The mine sump water after proper settlement of silt and sediments is being pumped to designated locations within mine lease to be used for dust suppression and other related uses.</p> <p>6. Silt Settling Pond:- Settling ponds are regarded as one of the key structures in the surface water management having the function of retaining the silt and sediments from contaminated water mainly emanating from infrastructure area such as CHP, OB dumps, railway sidings, stockyard, etc.</p>
xxv	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check runoff and siltation shall be based on the rainfall data.	Height of retaining wall varies from 2 m to 4m depending on the site conditions.
Xxvi	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	<p>Coal Handling Plant of 04 MTY capacity is equipped with Cyclone type dust extractor, automatic water sprinklers at crusher point and fixed water sprinklers at transfer points of CHP.</p> <p>Coal Handling Plant of 06 MTY is equipped with gyratory crusher, which is fully enclosed system, automatic water sprinkler system at crusher unloading point and Dry Fog Dust Suppression System at transfer points.</p> <p>Coal is being transported from crusher to Silo through enclosed conveyor belts.</p> <p>For water sprinklers at haulage road, mobile water sprinkling is being done. Fixed Water Sprinklers are also provided near coal yard no.1. In addition to this, one no. of fixed fog cannon is also deployed at coal yard no. 1.</p>
Xxvii	Drills shall be wet operated.	Drills are either wet operated and/or are provided with highly effective dust extractors, guards & dust collectors.
Xxvii i	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major	A WBM road of around 2 KM length has been constructed. A metalled is also constructed from mine barrier to New Workshop. Further, a concrete road of 6.61 KM length is also under construction at Khadia Project.

	approach roads,	<p>Greenbelt plantation (2.0 - 2.5 running km) is located along the southern boundary starting from behind the Weigh Bridge-I towards east.</p> <p>Township/Colony plantation The Khadia township is located over an area of 75 ha further SW of the mine and south of the PWD road. The area is well afforested with mixed native tree species together with few exotic species. Both single/multi-row planting along the avenue areas and block plantation on vacant land has been planted in the colony/township area. Apart from this, an area of 7.0 ha has been developed as an ecological park named 'Nandankanan' located close to the administrative buildings.</p>
Xxix	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Controlled blasting is practiced with use of delay detonators in between 01:00 PM to 02:00 PM. The ground vibrations are regularly monitored and kept controlled. Fly rocks are checked and blasting shelters are used.
xxx	A Progressive afforestation plan shall be implemented at the end of mining, which includes reclaimed External OB dump area (258 ha), Internal OB dump area (808 ha) and Green belt (49 ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	<p>At present, OB Dumping in M.P. state has not achieved final height.</p> <p>In U.P. state, total 22,39,655 sapling have been planted at Khadia Project from 1987-88 to 2022-23 through the UP Forest Deptt., Renukut forest division.</p> <p>Native species are being planted in consultation with the local DFO.</p>
Xxxi	An estimated total 1255.72 Mm³ of OB will be generated during the entire life of the mine. Out of which 254.33 Mm³ of OB will be dumped in two external OB Dumps an earmarked area covering 258 ha of land. 1001.72 Mm³ of will be two internal OB dump in covering an area of 808 ha . The maximum height of external OB dump will not exceed 90 m . The maximum slope of the dump shall not exceed 28 degrees . Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.	The total of 1255.72 Mm³ of OB shall be stacked at earmarked sites of external dump (258 ha) and internal dump (808 ha). The height and width of benches in OB dumps are maintained within permissible limits and wherever possible, stabilised with plantation. The external as well as internal dumps have not achieved its projected height. Back filling and concurrent reclamation is a continuous process. Approx. 194.5 Ha OB dump area (70 Ha internal and 124.5 Ha external) has been reclaimed as on date by plantation through UP Forest deptt. The ultimate slope of the dump will not exceed 28° . Monitoring and management of reclaimed dump site is continued. The compliance status is being regularly submitted to the Ministry of Environment & Forest, Regional office located at

		92	know & Bhopal.
Xxxii	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.		The restoration and reclamation of the degraded area will be restored as per Mine Closure Plan. The land will be used in a productive and sustainable manner.
Xxxii i	Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.		<p>The ecological restoration of both external and internal backfilled OB waste dumps in lieu of breaking open the land for mining is being carried out by afforesting through UP Forest Department. The afforestation work in the mining area is being continued as per the progressive mine closure plan.</p> <p>The condition in respect of Compensatory Ecological & Restoration of waste land, other degraded land in lieu of 1305.0 ha forest land diverted for mining in both Dudhichua and Khadia OCPs combined in Uttar Pradesh State has been complied by depositing an amount of Rs.4,20,34,050.00 vide SBI DD No. 231785 dated 26-11-1994 to the Director, Social Forestry District-Hardoi.</p> <p>Further, the compensatory afforestation of 360.0 ha degraded land in District Singrauli in lieu of diversion of 180.0 ha Forest Land acquired for Khadia Project in the state of Madhya Pradesh has been complied by depositing an amount of Rs. 10.80 Crore vide SBI Morwa DD No. 210211 dated 06.10.2009 to the Madhya Pradesh State Forest Department.</p>
Xxxi v	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.		The mining is being done in sustainable manner as per approved mine plan. No extra over burden dumps will be created.
Xxxv	No groundwater shall be used for mining operations.		No ground water is being used for mining operations apart for mine seepage during the course of mining.
Xxxv i	Of the total quarry area of 1003 ha. the backfilled quarry area of 808 ha shall be reclaimed with plantation and a void of 39 ha which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.		Of the total quarry area of 1003 ha. the backfilled quarry area of 808 ha will be reclaimed with plantation and at the mine closure, 39 ha of void will be filled to near ground level by OB from Dudhichua Mine as per specific condition no. iv of this EC
Xxxv ii	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May),		Regular monitoring of ground water level and quality is carried out through dug wells and piezometers (6 nos.) four times a year. The variation during winter season for last three years in water level is as shown below.

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monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.

Well	Water level in m bgl (Winter Season)		
	Feb'21	Feb'22	Feb'23
Khadia Basti	3.20	3.10	3.30
Khadia DAV	2.25	2.10	2.10
Khadia	1.95	1.95	1.55
Chilkadand	4.70	4.30	4.55

Reports are being submitted to the regional offices of MoEF & CPCB.

Xxxv
iii The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

The mine workings are on hilly terrain. Mine & rain water is collected in sufficient capacity in mine sump and in one large size pond for ground water recharge. Seven nos. of roof top rain water harvesting structures are operational.

The ground water level & quality of nearby areas is regularly being monitored and report submitted to MOEF regional offices at Bhopal & Lucknow. In case the village wells go dry, water requirement of nearby village(s) shall be taken care of.

Xxxi
x Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.

Sewage Treatment Plant (1.5 MLD) in colony and Effluent Treatment Plant (38.4 MLD) in mines are functioning efficiently. Workshop, Mine water and CHP waste water are being treated at ETP and the treated water is being reused in mine. The spillage/ discharge conforms to GSR 742(E) dtd. 25.09.2000 standards for Coal mines.

xl Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.

The occupational health check of 20% mine workers is being done annually at company hospital in compliance of the provisions of Coal Mine Rules.

Xli Land oustees shall be compensated as per the norms laid out R&R Policy of CHL or the National R&R Policy or R&R Policy of the State Government whichever is higher.

The project abides by this condition.

Xlii For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to

Digital processing of the entire lease area using remote sensing technique is done regularly by CMPDIL Ranchi & its report are regularly sent to MOEF, New Delhi, Regional office at Bhopal & Lucknow. Latest report for the year 2021, published in March 2022 has also been uploaded on website of NCL, www.ncl.in.

	MOEFCC and its concerned Regional office	
Xliii	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.	Approved mine plan and mine closure plan for 15 MTPA has been submitted to Regional Office of MoEF&CC vide letter dated 28.11.2022
Xliv	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	Project authorities remain in consultation with the Panchayats of local villages and administration to identify socio economic and welfare measures for CSR activities.
Xlv	Corporate Environment Responsibility:	
	a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	The company has an approved Corporate Environmental Policy.
	b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	The objective of approved Corporate Environment Policy states for compliance of conditions stipulated in Environmental Clearance / Forest Clearance/ or any other statutory conditions issued by regulatory agencies.
	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	At Area level, the Environment Cell is headed by the Staff Officer (Mining) who is directly reporting to the General Manager, Khadia Project. At Northern Coalfields Limited H.Qtrs. a full-fledged Environment Management Deptt. is headed by the General Manager (Environment) under the control of the Director (Tech. / P&P) who directly reports to the CMD, NCL.
	To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	The company has a proper management system to report the noncompliance /violation to the top management and stakeholders at the large. Northern Coalfields Limited is an ISO 14001:2015 certified company which automatically provides platform for management review.
4 B	B. General Conditions:	
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.	Env. Clearance letter no. J-11015 255/2006-1A.II(M) dtd. 27.07.2022 has been issued from MOEF for Khadia Expansion Project (15MTY). No change in mining technology and scope of working will be made without prior approval of the Ministry of environment and Forests.
ii	No change in the calendar plan of production for quantum of mineral coal shall be made.	No change in the calendar plan including excavation & quantum of mineral coal will be made.

	Year	Coal Production (in Million T)		
		In UP	In MP	Total
	2015-16	2.325	4.410	6.735
	2016-17	3.453	2.553	6.006
	2017-18	5.163	3.637	8.8
	2018-19	6.958	4.442	11.4
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	2020-21	7.8905	6.1095	14.00
	2021-22	8.659	5.340	14.00
	2022-23	9.730	5.269	15.00
iii	<p>Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.</p>			
	<p>Four ambient air quality monitoring stations are established in core zone, and four ambient air quality monitoring stations are established in buffer zone for SPM, RPM, SO₂, NO_x and heavy metal monitoring. Monitoring of Heavy Metals is being regularly done through CMPDIL.</p>			
Iv	<p>Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.</p>			
	<p>Ambient air quality data (SPM, RPM, SO₂, NO_x, heavy metals) is being regularly submitted to the MOEF/SPCB/CPCB once in six months.</p>			
V	<p>Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.</p>			
	<p>Noise pressure level is maintained below 85 dB(A) in the work environment. Ear plugs / muffs are regularly being distributed among employees engaged in comparatively high noise areas.</p>			
Vi	<p>Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.</p>			
	<p>Industrial waste water (workshop, CHP and waste water from the mine) is properly collected and treated at ETP (38 MLD capacity) and the treated water conform to the prescribed standards.</p>			
Vii	<p>Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.</p>			
	<p>Vehicular emissions are kept under control by regular maintenance of vehicles. Major coal transport is made through MGR railway system. Sometimes vehicles are also used for transporting the mineral and are optimally loaded and kept covered.</p>			

Viii	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.	A centrally located Environmental laboratory of CMPDIL, Jayant is working for all mines of NCL.								
Ix	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Personnel working in core mining area are provided protective respiratory devices. Initial training and refresher training programs of the workers are organised at VTC, Khadia whereas on the job training is organised at worksite.								
x	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	Periodic medical health check-up of mine personnel is done regularly and records are maintained in the prescribed form. The health and safety of the outsourced manpower is also taken care of. The compliance of all applicable environmental laws is an essential condition of the contract with outsourcing agencies which is being complied and monitored by the management.								
Xi	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	At Area level, the Environment Cell is headed by the Staff Officer (Mining) who is directly reporting to the General Manager, Khadia Project. At Northern Coalfields Limited H.Qtrs. a full-fledged Environment Management Deptt. is headed by the General Manager (Environment) under the control of the Director (Tech. / P&P) who directly reports to the CMD, NCL.								
Xii	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	New cost code has been generated in this regard and fund for environmental protection measures has been earmarked. Yearwise expenditure mentioned in environmental statement is being submitted to MoEF/SPCBs every year.								
Xiii	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at http://envfor.nic.in .	Advertisement regarding expansion of the project from 14 MTY to 15 MTY has been published in four local newspapers, details of which are as follows: <table><tr><td>1. Vindhya Bharat, Rewa</td><td>on 31.07.2022</td></tr><tr><td>2. Hindustan, Varanasi</td><td>31.07.2022</td></tr><tr><td>3. Aaj, Varanasi</td><td>29.07.2022</td></tr><tr><td>4. Dainik Bhaskar, Singrauli-</td><td>29.07.2022</td></tr></table>	1. Vindhya Bharat, Rewa	on 31.07.2022	2. Hindustan, Varanasi	31.07.2022	3. Aaj, Varanasi	29.07.2022	4. Dainik Bhaskar, Singrauli-	29.07.2022
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Xiv	A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	The copy of the environmental clearance letter has been submitted to concerned Panchayats, Municipal corporation and local administration. The environmental clearance letter can also be seen at company website www.nelcil.in .								

	A copy of the clearance letter shall also be displayed on company's website.	
Xv	A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	<p>The copy of EC letter has been provided to offices of District Magistrate / Collector, District Industrial Officer in both UP and MP state vide letter no. 3516 dated 30.07.2022 and 3517 dated 30.07.2022 respectively.</p> <p>Copy of EC has also been provided to UPPCB and MPPCB both for displaying the same on their website vide letter no. 3518 and 3519 dated 30.07.2022.</p>
Xvi	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	<p>The environment clearance letter has been uploaded on company's website www.nclcil.in. The compliance status of the Conditions stipulated in EC is uploaded on company's website www.nclcil.in and the same is being updated in every six months.</p> <p>Project has installed CAAQMS, through which real time data is being displayed.</p>
Xvii	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office's of CPCB and the SPCB.	<p>The six monthly compliance report of Khadia are being submitted regularly both in hard copy and soft copy.</p> <p>The report for the period 01.04.2022 to 30.09.2022 has been submitted vide letter no. NCL/KHD/Env/MoEF-Bhopal/22-23/3684 dated 28.11.2022 in hard copy and soft copy.</p>
xviii	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	The Project authorities are always in full cooperation to the Regional Office(s) of MoEF located at Lucknow & Bhopal by furnishing the requisite data / information / monitoring reports regularly.
Xix	The Environmental statement for each financial year ending 31 March in Form -V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.	The environmental statement for each financial year is regularly being submitted to the UPPCB/MPPCB, MoEF regional offices at Bhopal & Lucknow and also being uploaded on company website.

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5.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, presentation to the EAC and also the issues raised during Public Hearing.	The project proponent will abide by all the commitments and recommendations made in the EIA/EMP report, presentation to the EAC.
6	The proponent is required to 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 project abides by this condition
7	The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.	The project has well established environmental cell with responsibility and accountability to ensure compliance of EC conditions.
8	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	The project abides by this condition
9	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.	The project proponent is committed to enforce the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 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. The project is committed to provide the cost incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.
10	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.	The project abides by this condition.
11	This EC is in supersession to the earlier EC granted to the project vide letter No.J-11015/255/2006-IA.II (M) dated 10 th April, 2007 for 10 MTPA in an area of 1640 ha.	The project abides by this condition.

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COMPLIANCE AGAINST CONDITIONS MENTIONED IN LETTER NO.J-11015/ 255 / 2006
- IA.II(M) FROM MOEF&CC, NEW DELHI DTD.10.04.2007

S.N.	Conditions	Compliance Status
2 A	Specific Conditions	
(i)	No mining shall be carried out in the forest land for which forestry clearance has not been obtained.	The required total forest land clearances has been granted for 664 Ha in UP state (8-298/87-FC dated 30.07.1990) and for 180 Ha in MP state (8-85/2005-FC dtd. 14.09.2010). Project is committed to carry out mining in the forest land only for which forestry clearance has been obtained.
(ii)	Mining shall be carried out as per statute at a safe distance from the Ballia Nallah.	Mining is being carried out as per statute at a safe distance from the Ballia Nallah.
(iii)	Top soil of 2.56 M M3 shall be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of green belt .	Top soil is regularly being used for spreading on finalised overburden dumps.
(iv)	OB generated shall be stored in two external waste dump of 258 ha, and a maximum height of 90m, consisting of 3 benches of 30 m each, which will be stabilised with plantation and the ultimate slope of the dump shall not exceed 28°. Monitoring and management of reclaimed dumpsite should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest and its Regional office located at Lucknow on an yearly basis. The entire OB will be rehandled at the time of mine closure, into the decoaled void.	The height and width of benches in OB dumps are maintained within permissible limits and wherever possible stabilised with plantation. The external as well as internal dumps have not achieved its projected height (500m above MSL). Back filling and concurrent reclamation is a continuous process. Approx. 194.5 Ha OB dump area has been reclaimed upto 31.03.2023 by plantation through UP Forest deptt. The ultimate slope of the dump will not exceed 28°. Monitoring and management of reclaimed dump site is continued. The compliance status is being regularly submitted to the Ministry of Environment & Forest, Regional office located at Lucknow & Bhopal.
(v)	This (v) point is not mentioned in the MOEF letter.	Not applicable.
(vi)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilised for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site.	As per design, there are different types of structures implemented as per the suitability of the ground condition. <ol style="list-style-type: none"> 1. The retaining wall of total length of 4.150 KM has been constructed. Retaining walls will be further constructed as per requirement as mine progresses. 2. Garland drains of a total length of 7.8 km along both the east and west dumps put together as well as quarry are provided in the lease area. 3. Smooth draining of surface water along

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Sump capacity should also provided adequate retention period to allow proper settling of silt material .

haul/approach road is made possible by implementing catch drains, which are surface drains to intercept, collect and lead the flow of water in order to prevent water inrush on road and other related infrastructure facilities and are designed as per the rainfall density and elevational gradient of the area. Catch drains of appropriate type, length and dimensions with a total length of 3.320 Km have been provided, which is regularly being desilted.

4. Water so collected is being treated in ETP and reused in watering the mine area, roads, green belt development, etc
5. There are three mine sumps viz., S-1 at eastern section as well as S- 2A and S-3 at western section. Both S-1 and S-3 sumps are being utilized as surface water source for mining related activities. The mine sump water after proper settlement of silt and sediments is being pumped to designated locations within mine lease to be used for dust suppression and other related uses.
6. **Silt Settling Pond:-** Settling ponds are regarded as one of the key structures in the surface water management having the function of retaining the silt and sediments from contaminated water mainly emanating from infrastructure area such as CHP, OB dumps, railway sidings, stockyard, etc.

(vii) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run- off and siltation should be based on the rainfall data.

Dimension of the retaining wall are based on the rainfall data. Height of retaining wall varies from 2 m to 4m and width varies from 2.5 to 3m depending on the site conditions.

(viii) Crushers (present and additional) at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.

Khadia Project is equipped with two CHPs (04 MTY and 06 MTY capacity)
Coal Handling Plant of 04 MTY capacity is equipped with Cyclone type dust extractor, automatic water sprinklers at crusher point and fixed water sprinklers at transfer points of CHP. Coal Handling Plant of 06 MTY is equipped with gyratory crusher, which is fully enclosed system, automatic water sprinkler system at

		crusher unloading point and Dry Fog Dust Suppression System at transfer points. Coal is being transported from crusher to Silo through enclosed conveyor belts. For water sprinklers at haulage road, mobile water sprinkling is being done. Fixed Water Sprinklers are also provided near coal yard no.1. In addition to this, one no. of fixed fog cannon is also deployed at coal yard no. 1.
(ix)	Drills should be wet operated only.	Drills are either wet operated and/or are provided with highly effective dust extractors, guards & dust collectors.
(x)	Controlled blasting should be practiced with use of delay detonators and only during day time. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting is practiced with use of delay detonators in between 1:00 pm to 2:00 pm. The ground vibrations are regularly monitored and kept controlled. Fly rocks are checked and blasting shelters are used.
(xi)	A progressive afforestation plan shall be implemented covering a total area of not less than 1222 ha, which includes reclaimed external OB dump (258 ha), backfilled area (808 ha) along ML boundary, along roads and infrastructure green belt (156 ha), along vacant land and in colony by planting native species in consultation with the local DFO / Agriculture department. The density of the trees should be around 2500 plants per ha.	As per mine plan of 15 MTPA, out of total 1640 Ha lease hold area, plantation will be done in around 1378 Ha. Plantation is continuously being done through UP forest department. In FY 2022-23, plantation is being done on 33 Ha of overburden dump area and 0.5 Ha of Miyawaki afforestation on plain area.
(xii)	Of the excavated area an area of 808 ha shall be backfilled and reclaimed with plantation and the balance 39 ha of the decoaled void shall be converted into a water reservoir, the higher benches of which shall be gently sloped and stabilised by plantation / afforestation by planting native plant species in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per ha.	Back filling and concurrent reclamation is a continuous process. Approx. 194.5 Ha OB Dump area has been reclaimed upto 31.03.2023 by plantation through UP Forest deptt. The density of the plants is kept around 2500 plants/ha. Formation of water reservoir will be taken care at the time of mine closure.
(xiii)	The company shall obtain approval of CGWA/ CGWB Regional Office for use of ground water if any, for mining operations, Sanction of the competent authority shall be obtained for use of water from the integrated water supply Scheme of the G.B. Pant Sagar.	Application for NOC has already been made through application no. 21-4/1269/MP/MIN/2022 dated 24.03.2022. The water supplying unit IWSS has obtained permission letter no. 649-Cu-11 / NTPC / 79 dated 13.03.1979 from Rihand reservoir of the G.B.Pant Sagar to draw raw water.
	Regular monitoring of ground water	Regular monitoring of ground water level and

(xiv)	level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), Monsoon (August), Post - Monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	quality is carried out piezometers and observation wells. Reports are regularly being submitted to the regional offices of MoEF & CPCB. Construction of 6 piezometers at Khadia Project has been completed in Feb.'2016.
(xv)	The company shall put up artificial ground water recharge measures for augmentation of ground water resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	The mine workings are on hilly terrain. Mine & rain water is collected in sufficient capacity in mine sump for ground water recharge. The rain water harvesting is being done at 07 places including administrative building (GM office). Sufficient numbers of hand pumps in nearby villages (Ambedkar Nagar, Sabji Market, Khadia village etc) have been provided. The ground water level & quality of nearby areas is regularly being monitored and report submitted to MOEF regional offices at Bhopal & Lucknow. In case the village wells go dry, water requirement of nearby village(s) shall be taken care of.
(xvi)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater to ensure that the total waste water of 3190 cum/d being discharged from the mine conforms to prescribed standards for discharge.	Sewage Treatment Plant (1.5 MLD) in colony and Effluent Treatment Plant (38 MLD) in mines are functioning efficiently. Mine water, Workshop and CHP waste water are being treated at ETP and the treated water is being reused in mine. The spillage/ discharge conforms to MOEF gazette Notification No. GSR 742(E) dtd. 25.09.2000 standards for Coal mines.
(xvii)	The project authorities shall carry out a study for zero discharge from NCL mines by considering various options for using excess treated effluents including artificial recharge and the report on the same shall be submitted to this ministry within six months of issue of this clearance letter.	Mine effluent is being treated in Effluent Treatment Plant (ETP) and reused in dust suppression, haul road sprinkling, green belt development, firefighting, machinery washing etc. In this regard, a study has also been conducted through IIT-BHU. An STP is also operative at Khadia Area for treatment of domestic sewage and treated water is being reused in horticulture.
(xviii)	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from work force engaged in active mining operations shall be subjected to health check-up for occupational diseases	The periodical health checkup of more than 20% mine workers is being done annually at company hospital for compliance of the provisions of The Mines Rules, 1955.

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	and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of two years and the results reported to this Ministry and to DGMS.													
(xix)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its Regional Office at Bhopal .	Digital processing of the entire lease area using remote sensing technique is done regularly by CMPDIL Ranchi & its report are regularly sent to MOEF, New Delhi, Regional office at Bhopal & Lucknow. Latest report for the year 2021, published in March 2022 has also been uploaded on website of NCL, www.nclcil.in .												
(xx)	A final mine closure plan along with details of corpus fund should be submitted to the Ministry of Environment & Forest within one year for approval.	A mine closure plan for 15 MTPA capacity has been prepared and approved by NCL board. Copy of the mine plan has been uploaded on website of MoEF&CC https://parivesh.nic.in/ during application for EC.												
(xxi)	Consent of operate shall be obtained before expanding mining operations.	Khadia Project has obtained CTO from both UPPCB and MPPCB under Air & Water Act for enhanced production. The details of CTO are as follows. <table><tr><th>Sl. No.</th><th>SPCB</th><th>Consent No.</th><th>Validity of consent</th></tr><tr><td>1</td><td>MPPCB</td><td>AW-57297 dated 28.12.2022</td><td>31.12.2023</td></tr><tr><td>2</td><td>UPPCB</td><td>166971 issued on 12.12.2022</td><td>31.12.2024</td></tr></table>	Sl. No.	SPCB	Consent No.	Validity of consent	1	MPPCB	AW-57297 dated 28.12.2022	31.12.2023	2	UPPCB	166971 issued on 12.12.2022	31.12.2024
Sl. No.	SPCB	Consent No.	Validity of consent											
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2	UPPCB	166971 issued on 12.12.2022	31.12.2024											

B) General Conditions

(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of environment and Forests.	Env. Clearance letter no. J-11015/255/2006-IA.II(M) dtd. 27.07.2022 has been issued from MOEF for Khadia Expansion Project (15MTY). No change in mining technology and scope of working will be made without prior approval of the Ministry of environment and Forests.																															
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	<div>No change in the calendar plan including excavation & quantum of mineral coal will be made.</div> <table><tr><th rowspan="2">Year</th><th colspan="3">Coal Production (in Million T)</th></tr><tr><th>In UP</th><th>In MP</th><th>Total</th></tr><tr><td>2015-16</td><td>2.325</td><td>4.410</td><td>6.735</td></tr><tr><td>2016-17</td><td>3.453</td><td>2.553</td><td>6.006</td></tr><tr><td>2017-18</td><td>5.163</td><td>3.637</td><td>8.8</td></tr><tr><td>2018-19</td><td>6.958</td><td>4.442</td><td>11.4</td></tr><tr><td>2019-20</td><td>8.302</td><td>4.881</td><td>13.183</td></tr><tr><td>2020-21</td><td>7.8905</td><td>6.1095</td><td>14.00</td></tr></table>	Year	Coal Production (in Million T)			In UP	In MP	Total	2015-16	2.325	4.410	6.735	2016-17	3.453	2.553	6.006	2017-18	5.163	3.637	8.8	2018-19	6.958	4.442	11.4	2019-20	8.302	4.881	13.183	2020-21	7.8905	6.1095	14.00
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		2021-22	8.659	5.340	14.00	
		2022-23	9.730	5.269	15.00	
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ and NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	Four ambient air quality monitoring stations are established in core zone, and four ambient air quality monitoring stations are established in buffer zone for SPM, RPM, SO ₂ and NO _x monitoring as per GSR 742(E) dt. 25.09.2000 and parameters are within permissible limit.				
(iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.	Water spraying on haul roads is being done through dept. and outsourcing water sprinklers. Water sprinkling on transfer points is done by fixed water sprinklers. Besides this, currently two nos. of truck mounted fog cannon and two nos. of road sweeping machines are deployed at Khadia Area. Additionally, one no. of fixed fog cannon is also operational at Khadia Area, NCL and Air quality of area is regularly being measured by CMPDIL.				
(v)	Data on ambient air quality (SPM, RPM, SO ₂ and NO _x) should be regularly submitted to the Ministry including its Regional office Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Ambient air quality data (SPM, RPM, SO ₂ , NO _x , heavy metals) is being regularly submitted to the MOEF/SPCB/CPCB once in six months.				
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment Workers engaged in blasting and drilling operations, operation of HEMM etc. should be provided with ear plugs / muffs.	Noise pressure level is maintained below 85 dB(A) in the work environment. Ear plugs / muffs are regularly being distributed among employees engaged in comparatively high noise areas.				
(vii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (e) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	Industrial waste water (workshop, CHP and waste water from the mine) is properly collected and treated at ETP (38 MLD capacity) and the treated water conform to the prescribed standards.				
(viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	Vehicular emissions are kept under control by regular maintenance of vehicles and are regularly monitored. Major coal transport is made through MGR railway system. Sometimes vehicles are also used for transporting the mineral and are optimally				

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		loaded and kept covered.
(ix)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control / board.	A centrally located Environmental laboratory of CMPDIL is working for all mines of NCL.
(x)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, If needed .	Protective respiratory devices, training, information on safety and health aspects are regularly provided. Besides occupational health check of 20% mine workers / year, the company has opted ISO 45001:2018 and obtained certification for Occupational Health and Safety Assessment Series for it's all the coal mines in NCL.
(xi)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive, who will report directly to the Head of the company.	At Area level, the Environment Cell is headed by the Staff Officer(Mining) who is directly reporting to the General Manager, Khadia Project. At Northern Coalfields Limited H.Qtrs. a full-fledged Environment Management Deptt. is headed by the General Manager (Environment) under the control of the Director (Tech./P&P) who directly reports to the CMD, NCL.
(xii)	The fund earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry and its Regional Office at Bhopal .	New cost code has been generated in this regard and fund for environmental protection measures has been earmarked. Yearwise expenditure in environmental statement is being reported to MoEF/SPCBs every year
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data / information / monitoring reports .	The Project authorities are always in full cooperation to the Regional Office(s) of MoEF located at Lucknow & Bhopal by furnishing the requisite data / information / monitoring reports regularly.
(xiv)	A copy of the environmental clearance letter shall be marked to concerned panchyat / local NGO, If any, from whom any suggestion / representation has been received while processing the proposal .	The copy of the environmental clearance letter has been submitted to concerned Panchayats, Municipal corporation and local administration. The environmental clearance letter can also be seen at company website www.nclcil.in .
(xv)	State Pollution Control Board should display a copy of the clearance letter in the Regional Office, District	The copy of the EC letter has been provided to the offices of MPPCB and UPPCB both. The EC letter was also displayed at the

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	in the Regional Office, District Industry Centre and Collector's office / Tehsildars Office for 30 days .	The EC letter was also displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for more than 30 days.
(xvi)	The Project authorities should advertise at least in two local newspapers widely circulated around the project one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State pollution Control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in .	Advertisement regarding expansion of the project from 14 MTY to 15 MTY has been published in four local newspapers, details of which are as follows: <ol style="list-style-type: none"> 1. Vindhya Bharat, Rewa 31.07.2022 2. Hindustan, Varanasi 31.07.2022 3. Aaj, Varanasi 29.07.2022 4. Dainik Bhaskar, Singrauli- 29.07.2022

Anand.
26/5/23

General Manager
Khadia Area, NCL

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