

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

वन भवन, डोरण्डा, राँची, झारखंड, पिन-834002, Email-pccf-ednodal@gov.in

पत्रांक- 232

राँची, दिनांक- 09.3.2022

सेवा में,

अपर मुख्य सचिव,
वन, पर्यावरण एवं जलवायु परिवर्तन विभाग,
झारखण्ड सरकार, राँची।

विषय :- मेसर्स सी0सी0एल0 की कोतरे बसन्तपुर पचमो कोल माईन्स परियोजना हेतु बोकारो वन प्रमण्डल अन्तर्गत 372.98 हे0 वनभूमि अपयोजन प्रस्ताव के संबंध में।

प्रसंग :- 1. वन संरक्षक, प्रादेशिक अंचल, बोकारो का पत्रांक 57 दिनांक 24.01.2022
2. क्षेत्रीय मुख्य वन संरक्षक, बोकारो का पत्रांक 308 दिनांक 04.03.2022
3. इस कार्यालय के पत्रांक 109 दिनांक 04.02.2022 एवं ज्ञापांक 140 दिनांक 17.02.2022

महाशय,

उपर्युक्त विषयक संदर्भ में सूचित करना है कि मेसर्स सी0सी0एल0 की कोतरे बसन्तपुर पचमो कोल माईन्स परियोजना हेतु बोकारो वन प्रमण्डल अन्तर्गत 372.98 हे0 वनभूमि अपयोजन प्रस्ताव वन संरक्षक, प्रादेशिक अंचल, बोकारो के पत्रांक 57 दिनांक 24.01.2022 (छायाप्रति संलग्न) द्वारा Online तथा उसकी Hard Copy छः प्रतियों में प्राप्त हुई है। प्रस्ताव की समीक्षा के क्रम में इस कार्यालय के पत्रांक 109 दिनांक 04.02.2022 द्वारा निम्नांकित 3 बिन्दुओं पर पृच्छा की गयी :-

- i) दिनांक 08.10.2021 को सम्पन्न बैठक की कार्यवाही के संबंध में अनुपालन स्थिति प्रतिवेदन।
- ii) प्रस्ताव के साथ Authenticated Land Schedule संलग्न नहीं है।
- iii) वन प्रमंडल पदाधिकारी, बोकारो वन प्रमंडल द्वारा निर्धारित प्रपत्र Part-II में प्रविष्टि दर्ज करते हुए उसे अपलोड नहीं की गयी है।

प्रस्ताव पर पूर्व में दिनांक 08.10.2021 को क्षेत्रीय पदाधिकारियों के साथ परियोजना में पड़ने वाली वनभूमि के अपयोजन अन्य बिन्दुओं पर विस्तृत रूप से समीक्षा की गई। बैठक की कार्यवाही संलग्न है (अनुलग्नक संख्या- क)। समीक्षा के क्रम में निम्नांकित बिन्दुओं पर विस्तृत चर्चा की गई :-

- Kotre Basantpur Pachmo OCP project is spread over an area of 1162.87 Ha (Ramgarh Division- 664.96 Ha, Bokaro Division - 497.94 Ha). The OCP has proven reserve of coking coal (washery grade) and is spread over an area of 6.75 Sq. Km in West Bokaro coal field.
- Kotre Basantpur Pachmo OCP is surround by CCL Parej coal mine in the east, CCL Kedla and CCL Jharkhand OCP in the South and metamorphic (Non coal bearing formation) in the north.
- Mining plan of Kotre Basantpur Pachmo OCP has been prepared by M/s CMPDI.
- Mining from Kotre Basantpur Pachmo OCP will be done from single pit in the entire lease area. Production will start from Ramgarh side i.e. Kotre Basantpur area and then it will move to the Bokaro side i.e. Pachmo area.
- External dumping from OCP will start from year 1 of the production i.e. north- west side of the quarry and in pit dumping of will start from year 13 of the production.
- Over an entire period of production, the project will generate around 149.65 million tonnes of coal and 718.57 million cubic meters of dump. It was informed that about

30% of OB needs to be dumped externally for which around 313.52 ha land will be required. At the end of production phase, it was informed that due to swell factor and final void, the height of dumping area from MSL will be around 480m and mine void converted into water body will cover an area of 236.45 ha

After deliberating over the presentation, following action points was suggested to M/s CCL :-

- Initially the OB dumping is proposed in northern part of the coal block which is located at higher elevation than the mining area and is part of larger forested landscape. CCL was asked to explore the possibility of any other location like nearby pits of Kedla OCP, Jharkhand OCP, Parej OCP and coal block of CCL, non-forest lands, initial dumping in Pachmo OCP lease area etc. for dumping of OB dump so that the rich biodiversity of the area could be preserved.
- CCL was instructed to explore the possibility of starting the mining operation from Pachmo OCP side so that OB dumping on northern side of the block can be avoided.
- CCL to explore possibility of reducing forest area required for O.B. dump.
- CCL should prepare the baseline data of drainage and silt deposit study of the entire mining lease area from year 0 and carry out the impact study at regular interval and prepare detailed catchment area treatment plan.
- CCL should prepare mine closure plan along with progressive bio-reclamation plan of the entire mining lease.
- As per the land use plan post mining of coal block, 236.45 ha of the land will be converted into water body. CCL was asked to explore the possibility of using this area of 236.45 ha for internal OB dumping instead of converting this large area into water body and were directed to reclaim entire area after mine is closed.

पुनः दिनांक 11.02.2022 को परियोजना में पड़ने वाली वनभूमि के अपयोजन के संबंध में सीओसीओएल एवं वन विभाग के क्षेत्रीय पदाधिकारियों के साथ समीक्षा की गई। बैठक की कार्यवाही संलग्न है। (अनुलग्नक-ख)। समीक्षा में निम्न बिन्दुओं पर विमर्श किया गया :-

- The possibility of dumping overburden in the adjoining mines of Kotre Basantpur-Pachmo OCP has been examined and the status is as follows:
 - (i) Nearby OCPs Kedla & Jharkhand have more than 15 years of life and dumping of the OB from Kotre Basantpur-Pachmo OCP in these mines is not feasible.
 - (ii) Gose OCP will have a final void of about 100 Ha which will be used for dumping of OB from Gose East OCP.
 - (iii) Parej OCP will be completed in 5 yrs and only a small portion will be left as final void and will be used as water reservoir.
- The possibility of starting mining from pachmo side was examined as instructed in the 8th October meeting. Upon conducting a study, it was derived that more area is required for external dumping in this scenario, keeping in view that internal dumping can only commence in the in 22nd year if mine were to start from Pachmo side.
- CCL will be awarding the work to study drainage pattern and silt deposit study of the leasehold area to CWPRS Pune.
- CCL has studied the possibility of reducing the external dump area and as per revised plan 313.52 Ha of area will be used for external dump instead of earlier proposed 379.82 Ha (the mining plan for which was approved by CCL board in the month of September, 2021)



- CCL has proposed a mine closure plan that included back filling certain amount of OB. Thereby reducing the area of water body from 236.45 Ha to 209 Ha, and depth being brought down to 140m from the earlier 285m. Biological reclamation of 403 Ha against the earlier 420.4 Ha is proposed.
- An escrow account will be opened with Coal Controller, Kolkata by depositing an amount of 294.38 Cr. which will act as a security for the proposed mine closure plan.

Concern was shown for proposing 313.54 Ha of forest area for external dumping and leaving 209 Ha of final void area at the end of the quarry operations and the depth of the void proposed 140 m. Concern was expressed for raising height of OB dump up to 90m which is likely to cause soil erosion due to rain cuts & deposition of OB soil in nearby fields & choking drainage system. If height is increased then more particulate matter will become air borne and this will further deteriorate ambient air quality of the area if proper measures are not taken.

Detailed discussion was held on the presentation made by CMPDIL & CCL and they were advised to rework on the following points & make necessary changes in the forest diversion proposal accordingly :

- To reduce the final void to 40m depth while further minimizing the final void area of 209 Ha (proposed in the presentation)
- Not to reduce the green belt area due to rehandling of OB for back filling
- Terracing of the OB benches and vegetation with green grass by Geo textiling.
- To reduce the external dump to the minimum possible (preferably in two decks up to 60m).

Proposal of preserving top soil, method of preserving and scheme of spreading top soil over the dumps was sought.

दिनांक 11.02.2022 को सम्पन्न बैठक के उपरान्त प्रयोक्ता अभिकरण सी0सी0एल0 द्वारा समर्पित Action Taken Report (ATR) निम्नवत् है :-

Issue raised	Reply by User Agency
To reduce the final void to 40m depth while further minimizing the final void area of 209 Ha. (As proposed in the presentation)	Post mining plan revised to reduce the void area from 209 ha to 54.6 Ha. and void depth has been reduced to < 40 m.
Not to reduce the green belt due to re-handling of OB or backfilling	Green belt will not be affected due to re-handling of OB. Total green belt of 151.40 Ha. shall be maintained.
Terracing of OB Benches and vegetation with green grass by Geo textiling	Geo-textilling/jute mats shall be provided on the slopes for facilitating grass. Slope shall be vegetated using species like khus (Vetiveria Zizanioides), lemon grass (cymbopogon), Shishu (Delbargia Shishu), Khair (Casia Katachu) etc.
To reduce the external dump to the minimum possible (preferably in 2 decks up to 60m)	The dump height has been revised and proposed to reduce the height of dump upto 60m in the post mining stage by re-handling of OB into mine void. User Agency has submitted revised dump plan.
Proposal of preserving top soil method of preserving and scheme of spreading top soil over the dumps was sought.	It has been estimated that around 2.90 Mm ³ top soil will be generated throughout the life of mine. It is proposed to store the top soil in a designated site away from mining operations and use it for bio reclamation of degraded mine area. Refer Annexure-II for the Top Soil management Plan.

मेसर्स सी0सी0एल0, दरभंगा हाऊस, राँची के पत्रांक CCL/GM(E&F)/KBP/2022/92 दिनांक 08.02.2022 (छायाप्रति संलग्न) द्वारा Action Taken Report समर्पित की गयी। उक्त Action Taken Report के संदर्भ में दिनांक 11.02.2022 को सम्पन्न समीक्षा बैठक की कार्यवाही प्रतिवेदन के आलोक में प्रस्ताव में सुधार हेतु प्रयोक्ता अभिकरण को निदेशित किया गया, जिसका निराकरण प्रतिवेदन क्षेत्रीय मुख्य वन संरक्षक, बोकारो के पत्रांक 308 दिनांक 04.03.2022 (छायाप्रति संलग्न) द्वारा प्राप्त हुआ है, जो निम्नवत् प्रतिवेदित है :-

S.N.	Query	Compliance
1	दिनांक 08.10.2021 को सम्पन्न बैठक की कार्यवाही के संबंध में अनुपालन स्थिति प्रतिवेदन।	<p>1. Brief points mentioned in ATR of meeting dated 08.10.2021 are as mentioned below:-</p> <ul style="list-style-type: none"> • There is no possibility of OB dumping in nearby mines of CCL. • More area for OB dumping will be required if mining is started from Pachmo side. • UA will award work for studying drainage pattern and silt study to CWPRS Pune. • UA have prepared mine closure plan. <p>The copy of detailed ATR submitted by UA is enclosed as Annexure-I</p> <p>2. Brief points mentioned in ATR submitted by UA of meeting dated 11.02.2022 are as mentioned below:-</p> <ul style="list-style-type: none"> • Post mining plan revised to reduce the void area from 209 ha to 54.6 Ha. • Green belt will not be affected due to re-handling of OB. • Geo-textilling/jute mats etc. shall be used on OB dump for its rehabilitation. • UA has submitted revised dump plan. <p>The copy of detailed ATR submitted by UA is enclosed as Annexure-II</p>
2	प्रस्ताव के साथ Authenticated Land Schedule संलग्न नहीं है।	<p>प्रयोक्ता अभिकरण द्वारा समर्पित अंचलाधिकारी, गोमिया के पत्रांक 188 दिनांक 17.02.2022 द्वारा निर्गत Authenticated Land Schedule संलग्न है।</p> <p>उपायुक्त, बोकारो द्वारा निर्गत FRA Certificate संलग्न है।</p> <p>Plan showing map (Forest & GM JJ Land) एवं माईनिंग एरिया का KML File CD के रुप में संलग्न है।</p>
3	वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल द्वारा निर्धारित प्रपत्र- Part-II में प्रविष्टि दर्ज करते हुए अपलोड नहीं किया गया है।	<p>PARIVESH Portal पर Additional information के रुप में वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल का निर्धारित प्रपत्र- Part-II में प्रविष्टि दर्ज करते हुए अपलोड कर दिया गया है।</p> <p>Enclosed as Annexure-4</p>

वन प्रमंडल पदाधिकारी, बोकारो वन प्रमंडल के पत्रांक 561 दिनांक 03.03.2022 द्वारा निम्नांकित तीन अतिरिक्त शर्तों के साथ परियोजना में पड़ने वाली वनभूमि के अपयोजन की अनुशंसा की गयी है। वन संरक्षक, प्रादेशिक अंचल, बोकारो के पत्रांक 190 दिनांक 03.03.2022 एवं क्षेत्रीय मुख्य वन संरक्षक,

बोकारो के पत्रांक 308 दिनांक 04.03.2022 द्वारा वन प्रमंडल पदाधिकारी के मंतव्य पर सहमति प्रदान की गयी है :

- I. Drainage and silt deposit study of entire mining lease is to be conducted periodically by User agency and remedial action to be taken. Report is to be submitted regularly to the Forest Department.
- II. Wildlife Management Plan is to be prepared and submitted before the compliance of the conditions of Stage-I by the User Agency.
- III. Catchment area treatment plan for Chutua Nala and other Nala falling with the mining lease area is to be prepared and implemented.

प्रतिवेदनानुसार प्रस्ताव के संबंध में वस्तुस्थिति निम्नवत् प्रतिवेदित है :-

1. अपयोजन हेतु प्रस्तावित वनभूमि का विवरण निम्नवत् है :-

प्रमण्डल का नाम	अधिसूचित वन भूमि का रकबा (हे० में)	गैर मजरुआ जंगल-झाड़ी (हे० में)	कुल रकबा (हे० में)	गैर वनभूमि (हे० में)	वनस्पति घनत्व
बोकारो वन प्रमण्डल	216.36	156.62	372.98	124.93	0.5

1. विषयगत परियोजना में प्रभावित भूमि से संबंधित Authenticated Land Schedule सारांश के साथ ऑनलाईन पार्ट-1 के Additional Information में अपलोड किया जा चुका है जिसकी प्रति प्रस्ताव के साथ संलग्न है। (फोल्डर-3, अनुलग्नक-A)
2. विषयगत परियोजना में अपयोजित होने वाले वनभूमि से संबंधित उपायुक्त, बोकारो के पत्रांक-XXI-31/2014/02/(मु०)/wel दिनांक 10.01.2022 द्वारा कुल 921.63 एकड़ (372.98 हे०) का FRA निर्गत है। इस क्रम में ग्राम सभा बैठक की कार्यवाही का प्रतिवेदन (फोल्डर-3, अनुलग्नक-B एवं C) संलग्न है।
3. प्रयोक्ता अभिकरण द्वारा प्रस्ताव विहित संशोधित प्रपत्र Form-A (Part-I) समर्पित किया गया है तथा उसमें अभियुक्ति दर्ज है। (अनुलग्नक-3 एवं 4, संशोधित रूप फोल्डर-3, अनु०-A-1)
4. प्रस्ताव समर्पित करने हेतु प्रयोक्ता अभिकरण द्वारा निर्गत प्राधिकृत पत्र संलग्न है। (अनुलग्नक-5)
5. विषयगत परियोजना में अपयोजित होने वाले वनभूमि में सन्निहित गैर मजरुआ जंगल-झाड़ी भूमि का आयुक्त, उत्तरी छोटानागपुर प्रमण्डल, हजारीबाग के पत्रांक 860 दिनांक 22.07.2021 द्वारा कुल 387 एकड़ (156.62 हे०) निर्गत अनापत्ति प्रमाण-पत्र प्रस्ताव में संलग्न है। (अनुलग्नक-7)
6. प्रयोक्ता अभिकरण द्वारा प्रतिवेदित किया गया है कि पर्यावरणीय स्वीकृति अभी प्रक्रियाधीन है। Copy of Term of Reference (ToR) by MoEF&CC का पत्रांक- IA-J-11011/18/2019-IA-II(I) दिनांक 28.04.2019 की प्रति संलग्न है। (अनुलग्नक-9)
7. प्रस्ताव के साथ Land Use Plan संलग्न है। (अनुलग्नक-10)
8. अपयोजित होने वाले वनभूमि के विरुद्ध क्षतिपूरक वनरोपण हेतु नियमानुसार मांगी गई मद की राशि जमा करने से संबंधित प्रयोक्ता अभिकरण द्वारा दिया गया वचनबद्धता प्रमाण-पत्र (Undertaking) ऑनलाईन पार्ट-1 के Additional Information में अपलोड किया जा चुका है, जिसकी प्रति प्रस्ताव के साथ संलग्न है। (अनुलग्नक-14)
9. अपयोजित होने वाले वनभूमि के विरुद्ध एन०पी०भी० हेतु नियमानुसार मांगी गई मद की राशि जमा करने से संबंधित प्रयोक्ता अभिकरण द्वारा दिया गया वचनबद्धता प्रमाण-पत्र

(Undertaking) ऑनलाईन पार्ट-1 के Additional Information में अपलोड किया जा चुका है, जिसकी प्रति प्रस्ताव के साथ संलग्न है। (अनुलग्नक-15)

10. परियोजना में अपयोजित होने वाले वनभूमि को कैंडेस्ट्रल मैप पर वनभूमि, जंगल झाड़ी भूमि एवं गैर वनभूमि को अलग-अलग रंगों से दर्शाते हुए प्रस्ताव के साथ संलग्न है। (अनुलग्नक-19)

11. प्रस्ताव के साथ अपयोजित होने वाले वनभूमि को Toposheet पर दर्शाते हुए संलग्न है। (अनुलग्नक-20)

12. प्रस्ताव के साथ अपयोजित होने वाले वनभूमि का Geo-referenced boundary map (in shape file) की प्रति संलग्न है। (अनुलग्नक-21)

13. प्रस्ताव के साथ Cost Benefit Analysis संलग्न है। (अनुलग्नक-24)

14. प्रस्ताव के साथ क्षतिपूरक वनरोपण हेतु चिन्हित स्थल का वन प्रमण्डल पदाधिकारी, गिरिडीह पूर्वी वन प्रमण्डल द्वारा निर्गत उपयुक्तता प्रमाण-पत्र (Suitability Certificate) संलग्न है। (अनुलग्नक-29)

15. प्रस्ताव के साथ क्षतिपूरक वनरोपण हेतु चिन्हित 13 स्थलों का 10 वर्षीय प्राक्कलन की प्रति संलग्न है। (अनुलग्नक-30)

16. क्षतिपूरक वनरोपण हेतु चिन्हित स्थल को सर्वे ऑफ इण्डिया के टोपोग्राम 1:50000 के स्केल पर दर्शाते हुए प्रस्ताव के साथ संलग्न है। (अनुलग्नक-31)

17. प्रस्ताव के साथ अपयोजित होने वाले वनभूमि के दोगुने वनभूमि क्षेत्र 749.31 हे० में क्षतिपूरक वनरोपण कराने हेतु चिन्हित स्थल का DGPS Map सीडी सहित संलग्न है। (अनुलग्नक-32)

18. अपयोजित होने वाले वनभूमि में प्रभावित होने वाले वृक्षों की सत्यापित गणना सूची सारांश सहित प्रस्ताव के साथ संलग्न है। परियोजना में पातित होने वाले वृक्षों की कुल संख्या 45,470 प्रतिवेदित है। (सारांश सूची अनुलग्नक- 27, गणना सूची संलग्न, फोल्डर-2, अनुलग्नक- 36)

19. प्रस्ताव के साथ वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल का Recommendation की प्रति संलग्न है। (अनुलग्नक-33)

20. प्रस्ताव के साथ वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल का स्थलीय निरीक्षण प्रतिवेदन संलग्न है। (अनुलग्नक-34)

21. प्रस्ताव के साथ वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल का पार्ट-2 की प्रति संलग्न है। (अनुलग्नक-35)

22. वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल का संशोधित मैनुअल पार्ट-2 की प्रति ऑनलाईन Part-II के Additional information में अपलोड की गई है जिसकी प्रति प्रस्ताव के साथ संलग्न है। (फोल्डर- 3, अनुलग्नक-D)

23. प्रस्ताव के साथ वन संरक्षक, प्रादेशिक अंचल, बोकारो का स्थलीय निरीक्षण प्रतिवेदन, अनुशंसा एवं भरा हुआ मंतव्य Part-III की प्रति संलग्न है। (अनुलग्नक-37, 38 एवं 39)

24. प्रस्ताव में CWLW का मंतव्य अपेक्षित है। इस हेतु उनसे अनुरोध किया जा रहा है, जिसे प्राप्त होने पर अलग से भेज दिया जायेगा।

25. अधोहस्ताक्षरी का मंतव्य Part-IV संलग्न है।

पूर्व में वन संरक्षक, प्रादेशिक अंचल, बोकारो के पत्रांक 57 दिनांक 24.01.2022 द्वारा प्रस्ताव प्राप्त हुआ था, जिसमें वन प्रमण्डल पदाधिकारी, बोकारो वन प्रमण्डल द्वारा समर्पित Part-II एवं उसकी Site inspection report प्रेषित की गयी है। दिनांक 11.02.2022 की बैठक में लिये गये निर्णय के उपरांत ऊपर

वर्णित तीन अतिरिक्त शर्तों के अधीन पुनः अनुशंसा की गयी है, परन्तु उसे Part-II में अंकित नहीं किया गया है, क्योंकि Part-II में वन प्रमंडल पदाधिकारी के स्तर से amendment करना संभव नहीं है।

उपरोक्त तथ्यों के आलोक में क्षेत्रीय पदाधिकारियों द्वारा कुल 372.98 हे० वनभूमि अपयोजन हेतु सशर्त अनुशंसा की गई है। अधोहस्ताक्षरी द्वारा उनके मंतव्य से सहमत होते हुए निम्नांकित शर्तों के अधीन वनभूमि अपयोजन प्रस्ताव हेतु अनुशंसा की जाती है :-

- I. Legal status of the forest land shall remain unchanged.
- II. Compensatory afforestation shall be taken up by the Forest Department over 745.96 ha degraded forest land at the cost of the user Agency. As far as practicable a mixture of local native species will be planted and monoculture has to be avoided.
- III. Net present value (NPV) to be paid at present rates.
- IV. All the funds received from the user agency under the project shall be transferred / deposited to CAMPA fund only through e- portal ([https:// parivesh.nic. in/](https://parivesh.nic.in/))
- V. User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the state forest Department and the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.
- VI. Whenever possible and technically feasible, the User Agency shall undertake afforestation measures by involving local community in the blanks within the project area, as well as along the roads outside the project area in consultation with the State Forest Department at project cost.
- VII. The User Agency either itself or through the State forest department shall undertake fencing, protection and afforestation with native species of the Safety zone area (7.5 meter strip shall be kept within the project area at the project cost.
- VIII. No labour camp shall be established on the forest land.
- IX. Project Proponent to ensure that no damage to the flora & fauna of the adjoining area shall be caused.
- X. Development of in-house capacity for sustaining the eco- restoration activities with qualitative assurance over the entire project period
- XI. The period of diversion under this approval shall be thirty (30) years.
- XII. The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of the Central Government.
- XIII. As large forest is involved for diversion hence periodic evaluation of the project and its impact has to be carried out at regular interval. User Agency shall prepare Digital Evaluation Module (DEM) of 10 km radius area using LIDAR technology before commencement of mining operation & shall be repeated on 3rd, 5th, 10th, 15th, 20th, 25th & 30th year. Term of reference shall be approved by PCCF & ED cum Nodal Officer in consultation with PCCF(HoFF). On the basis of DEM user agency shall prepare Catchment area treatment Plan of 10 km radius area including drainage of Chutua Nala and other nearby Nalas as recommended by field officials and shall also prepare Soil Moisture Conservation Plan. These plans shall be approved by PCCF (HoFF) and shall be implemented by Forest Department at project cost. During periodic evaluation, if some changes are required then those changes shall be incorporated in these plans with the approval of PCCF(HoFF) and shall be implanted at project cost. A

special team comprising of officials of CCL, subject matter specialists, and forest officials may be constituted to study and monitor soil erosion, water conservation, ecological restoration activities during implementation of the project. Team shall be finalized by PCCF(HoFF).

- XIV. A water security plan to be prepared by a group of experts and adhered to
- XV. The User Agency should take effective measures to improve the eco-restoration activities over the OB dumps and the reclaimed mined over areas, in terms of the following so as to ensure the best feasible restoration of the lands on path of natural recovery and their eventual development as pockets of relatively enriched floral diversity :-
- a. Top soil shall be stored separately and to be reserved by laying Geo-textile and plantation of soil binding species grasses. The plan shall be prepared and implemented at project cost and shall be finalized and approved by the competent authority.
 - b. Stabilize the over burden dumps by appropriate grading/benching so as to ensure that angles of repose at any given place is less than 28° , and Over burden dumps are stabilized by laying Geo-textile, planting of grasses and later on planting of native tree species.
- XVI. Department shall prepare a surveillance and monitoring plan to ensure that the large scale translocation of families from the area shall not get shifted to the adjoining forest land after their reallocation. Surveillance and Monitoring system for the forest hinterlands of the project area to be planned and executed at the project cost with provisions of patrolling manpower, building infrastructure (watch tower, check post etc), forest road access and vehicular resources as necessary. The plan shall be finalised and approved by competent authority.
- XVII. Drainage and silt deposit study of entire mining lease is to be conducted with the help of CWPRS, Pune periodically by User agency and remedial action to be taken at project cost. Report is to be submitted regularly to the Forest Department.
- XVIII. User Agency shall prepare soil and moisture conservation plan on the basis of DEM and following activities shall be undertaken by the User Agency at the project cost:
- a) Preparation and implementation of a plan containing appropriate mitigative measures to minimize soil erosion and choking of streams. The plan shall be finalised and approved by competent authority.
 - b) Planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease to arrest soil erosion;
 - c) Construction of check dams, retention /toe walls along the contour to arrest sliding down of the excavated material;
- XIX. The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).
- XX. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per MoEF & CC Guideline F.No.11-42/2017-FC dt. 29.01.2018.
- XXI. As it is proposed to deposit 294.38 crore in an escrow account with coal controller, Kolkatta for effective implementation of mine closure plan. User

Agency is under an obligation to reclaim and handover diverted Forest area after completion of mining operation hence proposed money shall be deposited in a joint escrow account of coal controller Kolkatta and concerned DFO.

XXII. Any other condition that the State Government, Department of Forest, Environment and Climate Change and Ministry of Environment, Forest & Climate change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife.

XXIII. Wildlife Management Plan is to be prepared and submitted before the compliance of the conditions of Stage-I by the User Agency.

मूल प्रस्ताव की तीन प्रतियाँ अग्रतर कार्रवाई हेतु इस पत्र के साथ संलग्न भेजी जा रही है।

संचिका में प्रधान मुख्य वन संरक्षक, झारखण्ड का अनुमोदन प्राप्त है।

अनु०:—यथोक्त।

(मूल प्रस्ताव की तीन प्रतियाँ)

विश्वासभाजन,

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

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PART -IV

(To be filled in by the Nodal officers or Principal Chief Conservator of Forest or Head of Forest Department)

Kotre Basantpur Pachmo OCP CCL 372.98 ha

17. Detailed opinion and specific recommendation of the State Forest Department for acceptance of otherwise of the proposal with remarks)

(While giving opinion, the adverse comments made by concerned Conservator of Forest or Deputy Conservator of Forests should be categorically reviewed critically commented upon) :-

A. To review status of Forest Diversion Proposal of Kotre Basantpur Pachmo OCP of CCL involving diversion of 1006.17 ha Forest land involved in Ramgarh and Bokaro Forest Division, a meeting was held on 8th Oct, 2021. Forest area to be diverted in Ramgarh Forest Division is 633.19 ha and in Bokaro Division it is 372.98 ha. Thus total forest area to be diverted is 1006.17 ha. Major issues are related to Ramgarh Forest Division. During review of various components, it was noted that :-

- Kotre Basantpur Pachmo OCP project is spread over an area of 1162.87 Ha (Ramgarh Division- 664.96 Ha, Bokaro Division - 497.94 Ha). The OCP has proven reserve of coking coal (washery grade) and is spread over an area of 6.75 Sq. Km in West Bokaro coal field.
- Kotre Basantpur Pachmo OCP is surround by CCL Parej coal mine in the east, CCL Kedla and CCL Jharkhand OCP in the South and metamorphic (Non coal bearing formation) in the north.
- Mining plan of Kotre Basantpur Pachmo OCP has been prepared by M/s CMPDI.
- Mining from Kotre Basantpur Pachmo OCP will be done from single pit in the entire lease area. Production will start from Ramgarh side i.e. Kotre Basantpur area and then it will move to the Bokaro side i.e. Pachmo area.
- External dumping from OCP will start from year 1 of the production i.e. north- west side of the quarry and in pit dumping of will start from year 13 of the production.
- Over an entire period of production, the project will generate around 149.65 million tonnes of coal and 718.57 million cubic meters of dump. It was informed that about 30% of OB needs to be dumped externally for which around 313.52 ha land will be required. At the end of production phase, it was informed that due to swell factor and final void, the height of dumping area from MSL will be around 480m and mine void converted into water body will cover an area of 236.45 ha

B. After deliberating over the presentation, following action points was suggested to M/s CCL:-

- Initially the OB dumping is proposed in northern part of the coal block which is located at higher elevation than the mining area and is part of larger forested landscape. CCL was asked to explore the possibility of any other location like

nearby pits of Kedla OCP, Jharkhand OCP, Parej OCP and coal block of CCL, non- forest lands, initial dumping in Pachmo OCP lease area etc. for dumping of OB dump so that the rich biodiversity of the area could be preserved.

- CCL was instructed to explore the possibility of starting the mining operation from Pachmo OCP side so that OB dumping on northern side of the block can be avoided.
 - CCL to explore possibility of reducing forest area required for O.B. dump.
 - CCL should prepare the baseline data of drainage and silt deposit study of the entire mining lease area from year 0 and carry out the impact study at regular interval and prepare detailed catchment area treatment plan.
 - CCL should prepare mine closure plan along with progressive bio-reclamation plan of the entire mining lease.
 - As per the land use plan post mining of coal block, 236.45 ha of the land will be converted into water body. CCL was asked to explore the possibility of using this area of 236.45 ha for internal OB dumping instead of converting this large area into water body and were directed to reclaim entire area after mine is closed.
- C. Again detailed presentation by the officials of Central Coalfields Ltd. was done on 11.02.2022 and they explained Action Plan for which clarification was sought.
- The possibility of dumping overburden in the adjoining mines of Kotre Basantpur-Pachmo OCP has been examined and the status is as follows:
 - (i) Nearby OCPs Kedla & Jharkhand have more than 15 years of life and dumping of the OB from Kotre Basantpur-Pachmo OCP in these mines is not feasible.
 - (ii) Gose OCP will have a final void of about 100 Ha which will be used for dumping of OB from Gose East OCP.
 - (iii) Parej OCP will be completed in 5 yrs and only a small portion will be left as final void and will be used as water reservoir.
 - The possibility of starting mining from pachmo side was examined as instructed in the 8th October meeting. Upon conducting a study, it was derived that more area is required for external dumping in this scenario, keeping in view that internal dumping can only commence in the in 22nd year if mine were to start from Pachmo side.
 - CCL will be awarding the work to study drainage pattern and silt deposit study of the leasehold area to CWPRS Pune.
 - CCL has studied the possibility of reducing the external dump area and as per revised plan 313.52 Ha of area will be used for external dump instead of earlier proposed 379.82 Ha (the mining plan for which was approved by CCL board in the month of September, 2021)
 - CCL has proposed a mine closure plan that included back filling certain amount of OB. Thereby reducing the area of water body from 236.45 Ha to 209 Ha, and depth being brought down to 140m from the earlier 285m. Biological reclamation of 403 Ha against the earlier 420.4 Ha is proposed.
 - An escrow account will be opened with Coal Controller, Kolkata by depositing an of amount of 294.38 Cr. which will act as a security for the proposed mine closure plan.

- D. Concern was shown for proposing 313.54 Ha of forest area for external dumping and leaving 209 Ha of final void area at the end of the quarry operations and the depth of the void proposed 140 m. Concern was expressed for raising height of OB dump up to 90m which is likely to cause soil erosion due to rain cuts & deposition of OB soil in nearby fields & choking drainage system. If height is increased then more particulate matter will become air borne and this will further deteriorate ambient air quality of the area if proper measures are not taken.
- E. Detailed discussion was held on the presentation made by CMPDIL & CCL and they were advised to rework on the following points & make necessary changes in the forest diversion proposal accordingly:
- To reduce the final void to 40m depth while further minimizing the final void area of 209 Ha (proposed in the presentation)
 - Not to reduce the green belt area due to rehandling of OB for back filling
 - Terracing of the OB benches and vegetation with green grass by Geo textiling.
 - To reduce the external dump to the minimum possible (preferably in two decks up to 60m).
- F. Proposal of preserving top soil, method of preserving and scheme of spreading top soil over the dumps was sought.
- G. Brief points mentioned in ATR submitted by UA of meeting dated 11.02.2022 are as mentioned below :-

Issue raised	Reply by User Agency
To reduce the final void to 40m depth while further minimizing the final void area of 209 Ha. (As proposed in the presentation)	Post mining plan revised to reduce the void area from 209 ha to 54.6 Ha. and void depth has been reduced to < 40 m.
Not to reduce the green belt due to re-handling of OB or backfilling	Green belt will not be affected due to re-handling of OB. Total green belt of 151.40 Ha. shall be maintained.
Terracing of OB Benches and vegetation with green grass by Geo textiling	Geo-textilling/jute mats shall be provided on the slopes for facilitating grass. Slope shall be vegetated using species like khus (Vetiveria Zizanioides), lemon grass (cymbopogon), Shishu (Delbargia Shishu), Khair (Casia Katachu) etc.
To reduce the external dump to the minimum possible (preferably in 2 decks up to 60m)	The dump height has been revised and proposed to reduce the height of dump upto 60m in the post mining stage by re-handling of OB into mine void. UA has submitted revised dump plan.
Proposal of preserving top soil method of preserving and scheme of spreading top soil over the dumps was sought.	It has been estimated that around 2.90 Mm ³ top soil will be generated throughout the life of mine. It is proposed to store the top soil in a designated site away from mining operations and use it for bio reclamation of degraded mine area. Refer Annexure-II for the Top Soil management Plan.

- H. Initially proposal was recommended with certain conditions as proposed in Site Inspection Report of DFO, Bokaro, can be seen in Annexure- 33 & 34.
- I. Now Division Forest Officer, Bokaro Forest Division vide letter no.- 561 dated- 03.03.2022, Conservator of Forest, Territorial Circle, Bokaro vide letter no.- 190 dated- 03.03.2022, Regional Chief Conservator of Forest, Bokaro vide letter no.- 308 dated- 04.03.2022 has recommended proposal with following two additional conditions :-
1. Drainage and silt deposit study of entire mining lease is to be conducted periodically by User agency and remedial action to be taken. Report is to be submitted regularly to the Forest Department.
 2. Wildlife Management Plan is to be prepared and submitted before the compliance of the conditions of Stage-I by the User Agency.
 3. Catchment area treatment plan for Chutua Nala and other Nala falling with the mining lease area is to be prepared and implemented.
- J. Kotre Basantpur Pachmo OCP has good reserves of economic high grade coking coal which have huge Forex implications for the country. Hence on the basis of above diversion of 372.98 ha forest area is recommended under the provisions of Forest (Conservation) Act 1980 Rules/Guidelines with following conditions :-
1. Legal status of the forest land shall remain unchanged.
 2. Compensatory afforestation shall be taken up by the Forest Department over 745.96 ha degraded forest land at the cost of the user Agency. As far as practicable a mixture of local native species will be planted and monoculture has to be avoided.
 3. Net present value (NPV) to be paid at present rates.
 4. All the funds received from the user agency under the project shall be transferred / deposited to CAMPA fund only through e- portal ([https:// parivesh.nic. in/](https://parivesh.nic.in/))
 5. User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the state forest Department and the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.
 6. Whenever possible and technically feasible, the User Agency shall undertake afforestation measures by involving local community in the blanks within the project area, as well as along the roads outside the project area in consultation with the State Forest Department at project cost.
 7. The User Agency either itself or through the State forest department shall undertake fencing, protection and afforestation with native species of the Safety zone area (7.5 meter strip shall be kept within the project area at the project cost.
 8. No labour camp shall be established on the forest land.
 9. Project Proponent to ensure that no damage to the flora & fauna of the adjoining area shall be caused.
 10. Development of in-house capacity for sustaining the eco- restoration activities with qualitative assurance over the entire project period
 11. The period of diversion under this approval shall be thirty (30) years.
 12. The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of the Central Government.

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13. As large forest is involved for diversion hence periodic evaluation of the project and its impact has to be carried out at regular interval. User Agency shall prepare Digital Evaluation Module (DEM) of 10 km radius area using LIDAR technology before commencement of mining operation & shall be repeated on 3rd, 5th, 10th, 15th, 20th, 25th & 30th year. Term of reference shall be approved by PCCF & ED cum Nodal Officer in consultation with PCCF(HoFF). On the basis of DEM user agency shall prepare Catchment area treatment Plan of 10 km radius area including drainage of Chutua Nala and other nearby Nalas as recommended by field officials and shall also prepare Soil Moisture Conservation Plan. These plans shall be approved by PCCF (HoFF) and shall be implemented by Forest Department at project cost. During periodic evaluation if, if some changes are required then those changes shall be incorporated in these plans with the approval of PCCF(HoFF) and shall be implanted at project cost. A special team comprising of officials of CCL, subject matter specialists, and forest officials may be constituted to study and monitor soil erosion, water conservation, ecological restoration activities during implementation of the project. Team shall be finalized by PCCF(HoFF).
14. A water security plan to be prepared by a group of experts and adhered to
15. The User Agency should take effective measures to improve the eco-restoration activities over the OB dumps and the reclaimed mined over areas, in terms of the following so as to ensure the best feasible restoration of the lands on path of natural recovery and their eventual development as pockets of relatively enriched floral diversity :-
 - a. Top soil shall be stored separately and to be reserved by laying Geo-textile and plantation of soil binding species grasses. The plan shall be prepared and implemented at project cost and shall be finalized and approved by the competent authority.
 - b. Stabilize the over burden dumps by appropriate grading/benching so as to ensure that angles of repose at any given place is less than 28°, and Over burden dumps are stabilized by laying Geo-textile, planting of grasses and later on planting of native tree species.
16. Department shall prepare a surveillance and monitoring plan to ensure that the large scale translocation of families from the area shall not get shifted to the adjoining forest land after their reallocation. Surveillance and Monitoring system for the forest hinterlands of the project area to be planned and executed at the project cost with provisions of patrolling manpower, building infrastructure (watch tower, check post etc), forest road access and vehicular resources as necessary. The plan shall be finalised and approved by competent authority.
17. Drainage and silt deposit study of entire mining lease is to be conducted with the help of CWPRS, Pune periodically by User agency and remedial action to be taken at project. Report is to be submitted regularly to the Forest Department.
18. User Agency shall prepare soil and moisture conservation plan on the basis of DEM and following activities shall be undertaken by the User Agency at the project cost:
 - a) Preparation and implementation of a plan containing appropriate mitigative measures to minimize soil erosion and choking of streams. The plan shall be finalised and approved by competent authority.

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- b) Planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease to arrest soil erosion;
 - c) Construction of check dams, retention /toe walls along the contour to arrest sliding down of the excavated material;
19. The compliance report shall be uploaded on e-portal (<https://parivesh.nic.in/>).
20. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per MoEF&CC Guideline F.No.11-42/2017-FC dt. 29.01.2018.
21. As it is proposed to deposit 294.38 crore in an escrow account with coal controller, Kolkatta for effective implementation of mine closure plan. User Agency is under an obligation to reclaim and handover Diverted Forest area after completion of mining operation hence proposed many to deposit in a joint escrow account of coal controller Kolkatta and concerned DFO.
22. Any other condition that the State Government, Department of Forest, Environment and Climate Change and Ministry of Environment, Forest & Climate change may stipulate from time to time in the interest of conservation, protection and development of forest & wildlife.
23. Wildlife Management Plan is to be prepared and submitted before the compliance of the conditions of Stage-I by the User Agency.

Date :- 09.03.2022

Place :- Ranchi

Signature



(AJAY KUMAR RASTOGI)

Nodal Officer

Name & Designation

Principal Chief Conservator of Forests
Cum-Executive Director
Waste Land Development Board
Jharkhand, Ranchi

(Official Seal)