



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

वन भवन, डोरण्डा, राँची, झारखंड, पिन-834002, Email : pccfednodal@gov.in

पत्रांक :- 147

दिनांक :- 15/2/2024

सेवा में,

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

विषय :- सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत- 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत-298.42 हे0) वन भूमि अपयोजन प्रस्ताव (FP/JH/MIN/140599/2021) के संबंध में।

- प्रसंग :-
1. भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023
 2. क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग का पत्रांक 258 दिनांक 05.02.2024

महाशय,

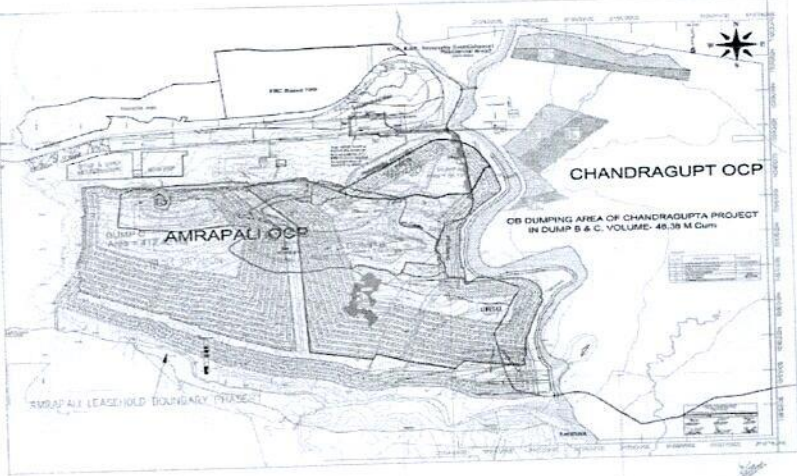
उपर्युक्त विषयक संदर्भ में सूचित करना है कि भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली के प्रसंगिक पत्र-1 द्वारा सी0सी0एल0 के चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत 298.42 हे0) वनभूमि अपयोजन प्रस्ताव में पन्द्रह बिन्दुओं पर पृच्छा की गई है। उक्त पृच्छा का बिन्दुवार निराकरण प्रतिवेदन क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग के पत्रांक 258 दिनांक 05.02.2024 (छायाप्रति संलग्न) द्वारा प्राप्त हुआ है।

क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग के प्रतिवेदनानुसार निराकरण निम्नवत् प्रतिवेदित है :-

Sl. No.	Queries raised by GoI	Compliance Status
1	2	3
(i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments may also be furnished on the adequacy of mitigation measures like Site Specific Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.	The applied area is a good habitat of wildlife. Its surrounding area also, being a good habitat of many wild animals, shall definitely bear some impact on wild animals inhabiting the area for which a Wildlife Management Plan shall be required. The Asian Elephant, the endangered one, through do not reside in the proposed area permanently, they visit these areas every year in search food and fodder and damage the crops, houses etc., In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal. The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in-principle approval. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III) Annexure-I, II & III
(ii)	The authorities in the State Forest Department have recommended	The plans as recommended by State Forest department along with their tentative cost, time required for preparation and duration of implementation is given as under

Sl. No.	Queries raised by GoI	Compliance Status			
		Plans	Tentative cost (In Rs)	Time required for Preparation	Duration of Implementation
	preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against them, their tentative cost, time required for preparation and duration of implementation, etc. need to be furnished by the State.	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation
		Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation
		Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation
(iii)	In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.	<ol style="list-style-type: none"> 1. User Agency shall prepare and submit the above-mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA Account before actual breaking/ non-forestry use of the forest land. 2. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III) 			
(iv)	Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.	In this regard User agency has submitted revised Cost-Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06-01-2022. Enclosed as annexure-V			
(v)	Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be submitted along with complete detail of supporting attributes such as afforestation scheme, suitability certificate, KML files, etc.	<p>The User Agency has left a patch of 7.5 m of forest all along the Coal Block boundary as Proposed Safety Zone. The area of safety zone comes to be 2.9 Ha which is part of 699.38 Ha of forest land diversion proposal.</p> <p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone.</p> <p>The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure-VI.</p>			
(vi)	From the purpose-wise breakup of forest land, the following may be ascertained:				
(a)	An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource	<ol style="list-style-type: none"> 1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River prepared by IIT Roorkee has been submitted by the User Agency. (The DPR enclosed by user agency in the form of CD as Annexure- VII) <p>Diversion proposal has been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource</p>			

SI. No.	Queries raised by GoI	Compliance Status																																																													
	Department on the feasibility of said proposed diversion needs to be informed by the State.	Department has been enclosed by user agency as Annexure-VIII .																																																													
(b)	An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.	<p>As per the advice of MOEFCC, the land-use proposed in the earlier submitted Form-A has been revised by the User Agency with a view to reduce forest land for infrastructural components. The earlier and proposed land-use is given below:</p> <table border="1"> <thead> <tr> <th colspan="4">Earlier Land-Use for Infrastructure</th> <th colspan="3">Revised Land-Use for infrastructure</th> <th rowspan="2">% Change in Forest Land</th> </tr> <tr> <th>S N</th> <th>Component</th> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>(3-6)/3</td> </tr> <tr> <td>1</td> <td>CHP</td> <td>9.30</td> <td>5.52</td> <td>14.82</td> <td>4.45</td> <td>3.41</td> <td>7.86</td> <td>- 52 %</td> </tr> <tr> <td>2</td> <td>Infrastructure (Field Workshop, Substation etc)</td> <td>13.94</td> <td>2.30</td> <td>16.24</td> <td>0.00</td> <td>11.56</td> <td>11.56</td> <td>- 100 %</td> </tr> <tr> <td>3</td> <td>Road, bridge, culvert</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>0</td> </tr> <tr> <td></td> <td>Total</td> <td>27.62</td> <td>22.02</td> <td>49.64</td> <td>8.83</td> <td>29.17</td> <td>38.00</td> <td>-68 %</td> </tr> </tbody> </table> <p>The plan is enclosed as Annexure-IX.</p>	Earlier Land-Use for Infrastructure				Revised Land-Use for infrastructure			% Change in Forest Land	S N	Component	Forest Land	Non-Forest Land	Total Area (in Ha)	Forest Land	Non-Forest Land	Total Area (in Ha)	1	2	3	4	5	6	7	8	(3-6)/3	1	CHP	9.30	5.52	14.82	4.45	3.41	7.86	- 52 %	2	Infrastructure (Field Workshop, Substation etc)	13.94	2.30	16.24	0.00	11.56	11.56	- 100 %	3	Road, bridge, culvert	4.38	14.20	18.58	4.38	14.20	18.58	0		Total	27.62	22.02	49.64	8.83	29.17	38.00	-68 %
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(c)	A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9 ha of forest land earmarked for safety zone. Rationalize for including green belt area in the project which could otherwise be excluded from the project and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished	<ol style="list-style-type: none"> 1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficult by the Forest Department. 2) The User Agency has submitted that, in compliance of generic condition of the EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease area. This apart, the statutory barriers against surface features like river, nallah, public road etc are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as barriers is developed and maintained as Green Belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks. 3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary. 4) Also the User Agency has submitted that they have proposed the green belt as part of mitigation measures for dust suppression. <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. In view of this, it is proposed to maintain these parcels of land as green belt aggregating to 55.61 Ha (which includes 36.82 ha green belt proposed earlier plus 18.79 Ha of Forest land now made available due to shifting of infrastructural activities to non-forest land) as green belt as shown in the revised land use. The forest area earmarked as green belt will be kept and maintained as such, and no non-forestry activity should be undertaken therein.</p>																																																													

Sl. No.	Queries raised by GoI	Compliance Status
(d)	<p>Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.</p>	 <p>The User Agency has submitted that,</p> <ol style="list-style-type: none"> 1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible. 2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself. 3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP. <p>Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt OCP is enclosed by User Agency as Annexure -X Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as Annexure-XI</p>
(vii)	<p>Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:</p>	<p>Chatra South Division A total of 802.05 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure- XIV.</p> <p>Hazaribagh West Division A total of 597.30 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure- XII.</p>
(a)	<p>Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion</p>	<p>The User Agency has submitted that the roads passing through the Forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations.</p> <p>Annexure- XII</p>
(b)	<p>As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.</p>	<p>The User Agency has submitted that, the barrage is not falling in the forest patch proposed for diversion. The barrage structure is approximately 140 mtrs away from the project boundary. However, a small part of stone pitched embankment is touching the South-Western boundary of the project at an approximate distance of 20 mtrs only.</p> <p>As per the approved Project Report of Chandragupt OCP: “The Southern Boundary has been fixed leaving a barrier of 100 mtr from the southern geological block boundary of Pachra South block.”</p>

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		As such, the quarry edge will be 100 mtrs away from the embankment. (Barrage Location Plan is enclosed by User Agency in the form of CD & Hard copy as Annexure -XIII)																																																								
(c)	Google imagery shows the encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.	<p>DFO Chatra South Has submitted that total of 800.00 Ha of degraded forest land was proposed as CA land in Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22-09-2023, the CA sites were physically verified. Upon verification of the proposed CA sites, a total of 254.25 Ha of degraded forest land was found unfit for CA plantations due to presence of trees, encroachments, water bodies etc. Rest 545.75 Ha. of degraded forest land was found fit for CA plantations. In this regard encumbrance free alternative fresh CA land to the tune of 256.30 Ha (Chatra South: 47.3Ha & Chatra North:209Ha) along with CA Scheme, Suitability Certificate has been made available. Hence, a total of 802.05 Ha (545.25 Ha + 256.30 Ha) has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure- XIV.</p> <p>DFO Hazaribagh West In this regarding A total of 600 ha. of degraded forest land was proposed as CA land under Hazaribagh West Forest Division and Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22.09.2023, the CA sites were physically verified. After verification it was found that 262.30 ha land was not suitable for CA plantation on account of various reasons as mentioned in the table below. Afreshencumbrance free CA land of 259.60 ha has been proposed in Hazaribagh West Forest Division & Chatra South Forest Division. Thus a total of 597.70 (Previous proposed CA land 337.70 ha. under and proposed fresh CA land 259.60 Ha. under Hazaribagh West Forest Division & Chatra South Forest Division) has been proposed against diverted land of 298.42 ha. CA Scheme and Suitability Certificate, KML, DGPS & Topo Maps as enclosed as Annexure- XII</p> <p>Details are given below: -</p> <table border="1"> <thead> <tr> <th colspan="7">Details of CA Land</th> </tr> <tr> <th>S. No</th> <th>Name of the PF/RF</th> <th>Range</th> <th>Compartment No</th> <th>Proposed Area (Ha)</th> <th>Remarks</th> <th>After verification area (Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Basaria</td> <td>Barhi</td> <td>132, 133, 134</td> <td>15.00</td> <td>Earthen Dam present</td> <td>10.00</td> </tr> <tr> <td>2</td> <td>Basaria</td> <td>Barhi</td> <td>17,22,23,25, 26,79</td> <td>41.68</td> <td>Mined out Area & Plantation work</td> <td></td> </tr> <tr> <td>3</td> <td>Basaria</td> <td>Barhi</td> <td>170</td> <td>5.00</td> <td>Encroachment of Agriculture land in the CA patch namely</td> <td></td> </tr> <tr> <td>4</td> <td>Mungarmao</td> <td>Barhi</td> <td>100, 107, 110, 113</td> <td>20.00</td> <td></td> <td>19.91</td> </tr> <tr> <td>5</td> <td>Chandgarh</td> <td>Barhi</td> <td>131, 133, 134, 139</td> <td>64.88</td> <td></td> <td>64.70</td> </tr> <tr> <td>6</td> <td>Jatghagra</td> <td>Barhi</td> <td>80</td> <td>6.00</td> <td>Encroachment of Agriculture land in the CA patch namely</td> <td></td> </tr> </tbody> </table>	Details of CA Land							S. No	Name of the PF/RF	Range	Compartment No	Proposed Area (Ha)	Remarks	After verification area (Ha)	1	Basaria	Barhi	132, 133, 134	15.00	Earthen Dam present	10.00	2	Basaria	Barhi	17,22,23,25, 26,79	41.68	Mined out Area & Plantation work		3	Basaria	Barhi	170	5.00	Encroachment of Agriculture land in the CA patch namely		4	Mungarmao	Barhi	100, 107, 110, 113	20.00		19.91	5	Chandgarh	Barhi	131, 133, 134, 139	64.88		64.70	6	Jatghagra	Barhi	80	6.00	Encroachment of Agriculture land in the CA patch namely	
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(d)	An earthen pond created recently in the CA patch namely Mahuari and New Road has been constructed in the CA patch namely Village – Kendua.																																																									
(e)	Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.																																																									

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		7	Lachudih	Barhi	34, 43, 45	16.75	16.75	
		8	Gaira	Barhi	3050, 3081	26.00	Plantation work carried out in CA	
		9	Lohri	Chatra	32, 33, 34, 35	45.00	Encroachment of Agriculture land in the CA patch	
		10	Sinduarikherd	Chatra	2P, 3P, 4P, 5P	29.65	29.65	
		11	Unta	Chatra	1P	50.00	49.99	
		12	Deochanda	Barhi	853, 870, 872, 873	95.24	Encroachment of Agriculture and plantation activities visible	
		13	Lachudih	Barhi	18 & 19	23.25	23.00	
		14	Jatghagra	Barhi	155	5.00	5.00	
		15	Jatghagra	Barhi	1289, 1345	16.00	Encroachment of Agriculture land in the CA patch namely	
		16	Kendua	Barhi	2, 14, 26, 149, 190, 192	40.24	39.00	
		17	Kendua	Barhi	428, 429, 432, 433	46.19	New Road has been constructed in the CA patch	
		18	Jarahiya	Barhi	143, 194	34.12	34.00	
		19	Gaira	Barhi	3081	20.00	plantation work carried out recently	
		Total				600.00	337.70	
		Proposed Fresh CA Land						
		20	Damdoya	Chatra	1359		5.80	
		21	Dahu	Tandwa	1585, 1594, 1611, 1472P, 1931P, 1935P, 1936P	-	23.80	
		22	Madhuban	Barhi	1019(P)	-	25.00	
		23	Lokiya	Barhi	1(P), 421(P), 592(P), 598(P)	-	50.00	
		24	Badiyajwar	Barhi	750(P), 751(P), 752(P)	-	38.00	
		25	Balori	Barhi	62(P), 63(P), 64(P), 65(P)	-	68.00	
		26	Simarkurha	Barhi	409, 412, 413, 414, 415, 419, 421, 423	-	49.00	
							Total	259.60
							Grand Total	597.30
(viii)	Quantitative details of deaths of human and elephants in last five years may be furnished by the State along with details of existing and proposed elephant corridors in the landscape.	<p>Chatra South Division Quantitative details of deaths of Human and Elephants in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV. DFO Chatra South Division has submitted that there is no Notified Elephant Corridors in Chatra South Forest Division. On the basis of elephant movements, three elephant corridors have been proposed in Chatra South forest division. However, the proposed mining project</p>						

Sl. No.	Queries raised by GoI	Compliance Status
		<p>does not fall on any of these proposed elephant corridors.</p> <p>Hazaribagh West Division In this regard quantitative details of deaths of human and elephants in last five years i.e., 2019-20 to 2023-24 as attached under Hazaribagh West Forest Division. (Details enclosed as Annexure-XIII)</p> <p>DFO Hazaribagh West Division has submitted that there is no notified elephant corridors in Hazaribagh West Forest Division. On the basis of elephant movements, five elephant corridors have been proposed in Hazaribagh West Forest Division. However, the proposed mining project does not have any of these proposed elephant corridors.</p>
(ix)	<p>External dump is being proposed in 86.16 ha of land in Amrapali OCP, which is not given in the proposal but included in Mining Plan. Therefore, compliance status of Amrapali OCP shall be submitted.</p>	<p>The User Agency has submitted that the external dump of Chandragupta OCP is proposed in an area of 89.16 Ha of land in Amrapali OCP. The approval of Project report enclosed in the form of CD of Amrapali OCP along with approved dumping strategy plan is attached as Annexure-XVI in Chatra South and Annexure-XIV in Hazaribagh West quick perusal.</p> <p>The compliance status of already diverted forest proposal of 531.64 Ha in respect of Amrapali OCP is enclosed Compliance report of Amrapali by User Agency as Annexure-XVII in Chatra South and Annexure XV in Hazaribagh West folder.</p>
(x)	<p>In case Amrapali OCP is not of the UA then an NOC from the UA of Amrapali OCP shall be submitted.</p>	<p>The User Agency has submitted that both Amrapali OCP and Chandragupta OCP are the projects of Central Coalfields Limited under the administrative control of 'Amrapali & Chandragupt Area'. As such, no NOC is required for Chandragupta OCP from Amrapali OCP.</p>
(xi)	<p>Amrapali OCP boundary is in the west side of the Barki River, the impact of having mining on both the sides of river will require deep understanding of the impact of hydrology of the river, so comments of the State shall be submitted in this regard.</p>	<p>CMPDIL, Ranchi has prepared a Report on the Anticipated Impacts of proposed mining on either side of Barki River and its management plan. (Report of CMPDIL is attached by User Agency as Annexure-XVIII).</p> <p>Following are the key findings of the report:</p> <ol style="list-style-type: none"> 1) There shall not be any obstruction to the flow of Barki River. Mining is proposed by leaving approx. 100 m on Amrapali side and 60 m on Chandragupt side from the HFL of the River. 2) This safety zone will act as a buffer between the natural stream and active mining area, thereby safeguarding the banks of Barki River from erosion, keeping the catchment area for stream assisted by natural channel slope, sustaining the stream flow, and preserving the riverine eco-system. 3) During heavy rainfall conditions, the active mine sumps will act as surge ponds and effectively reduce the peak flow rates in Barki River. Thus, Barki River will not experience any flooding-related problems during heavy rainfall. <p>Additionally, as part of the study on diversion of Chutki nalla, IIT Roorkee has conducted a study on Barki river also. The study states that Barki has a catchment of 231.50 sqkm.</p> <p>The study suggests no risk of flooding on the surrounding landscape. Also any deficit in natural run-off will be compensated by mine discharge and run-off from reclaimed land and hence there will not be any variation in the flow of Barki river.</p> <p>Therefore, it can be ascertained that there will not be any direct impact of proposed mining on the surface hydrology of Barki River. Control measures like toe wall, garland drain, check dams and</p>


Sl. No.	Queries raised by GoI	Compliance Status
		siltation ponds to arrest siltation, and ETP with oil and grease removal mechanism to treat workshop effluents, will be in place. (The DPR from IIT,ROORKEE is enclosed in the form of CD by User Agency as Annexure -VII)
(xii)	A high level bridge over Barki river needs to be constructed to connect the proposed OCP, the location of the bridge and its connectivity should be shown through KML for further DSS analysis.	A high-level bridge over Barki river for connectivity with the Chandragupt OCP is proposed by the user Agency. The KML file is attached <i>in the form of CD by User Agency as Annexure -XIX</i>
(xiii)	Chotki river falling in the proposed site has to be diverted as per the proposal but the site inspection report or the comments of the State is silent on it, specially about its impact on the water security and hydrological cycle downstream.	The User Agency has submitted that the Sub Divisional Officer, Waterways Subdivision, Hazaribagh of Govt of Jharkhand has carried out site inspection of Chhotki river and submitted report to Executive Engineer, Water Resource Department with comments and recommendation. The diversion proposal has further been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NoC.
(xiv)	Since the area has elephant therefore the cases of the Human Elephant conflicts in the district needs to be looked into, for which deaths of human and elephants in the Chatra and Hazaribagh district in last five years to be provided. Loss of property and crop damage and compensation given and pending should also be provided.	Quantitative details of deaths of human and elephants and Loss of property and crop damage and compensation in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV and Hazaribagh West Forest Division is attached as Annexure-XIII
(xv)	Recommendation of the CWLW will be needed specially regarding need of wildlife management and mitigation of conflict plan.	The CWLW has given comments regarding need of wildlife Management and mitigation of Man and Animal conflict. (Copy enclosed as Annexure- I)

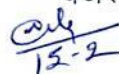
अतः क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग से प्राप्त निराकरण प्रतिवेदन की तीन-तीन प्रतियाँ इस पत्र के साथ संलग्न कर अग्रतर कार्रवाई हेतु भेजा जा रहा है।

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

अनुलग्नक :- यथोक्त।

विश्वासभाजन,


15/02/24
प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक,
बंजर भूमि विकास बोर्ड, झारखण्ड, राँची।


15-2



कार्यालय – क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग।
वन भवन, हजारीबाग,

Ph. No. 06546-223962, Email- rccf-hazaribagh@gov.in

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सेवा में,

पत्रांक : 258

दिनांक : 05.02.2024

प्रधान मुख्य वन संरक्षक,
—सह—

कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड,
झारखण्ड, रांची।

विषय:-

सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत-400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत-298.42 हे0) वन भूमि अपयोजन (ऑनलाईन प्रस्ता0 सं0 PF/JH/MIN/ 140599/2021) प्रस्ताव के संबंध में।

प्रसंग :-

भवदीय पत्रांक 979 दिनांक 03.10.2023

उपर्युक्त विषयक प्रासंगिक पत्र के संदर्भ में सादर सूचित करना है कि विषयक परियोजना सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत 298.42 हे0) वनभूमि अपयोजन प्रस्ताव में भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023 द्वारा पन्द्रह बिन्दुओं पर पृच्छा की गई है। पृच्छित बिन्दुओं का निराकरण प्रतिवेदन वन संरक्षक, प्रादेशिक अंचल, चतरा के पत्रांक 60 दिनांक 30.01.2024, वन संरक्षक, प्रादेशिक अंचल, हजारीबाग के पत्रांक 225 दिनांक 05.02.2024 तथा वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल के पत्रांक 166 दिनांक 22.01.2024 एवं हजारीबाग पश्चिमी वन प्रमंडल का पत्रांक 867 दिनांक 05.02.2024 (छाया प्रति संलग्न) से प्राप्त हुआ है। प्राप्त निराकरण प्रतिवेदन बिन्दुवार निम्नवत् है:-

Condi tion No.	Queries raised by Gol	Compliance report	Anne xure
1	3	5	
i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments may also be furnished on the adequacy of mitigation measures like Site Specific	<p>The applied area is a good habitat of wildlife. Its surrounding area also, being a good habitat of many wild animals, shall definitely bear some impact on wild animals inhabiting the area for which a Wildlife Management Plan shall be required. The Asian Elephant, the endangered one, through do not reside in the proposed area permanently, they visit these areas every year in search food and fodder and damage the crops, houses etc.,</p> <p>In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal.</p> <p>The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in-principle approval.</p> <p>In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>	I, II & III

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<p>Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.</p>																		
<p>ii) The authorities in the State Forest Department have recommended preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against them, their tentative cost, time required for preparation and duration of implementation, etc. need to be furnished by the State.</p>	<p>The plans as recommended by State Forest department along with their tentative cost, time required for preparation and duration of implementation is given as under</p> <table border="1" data-bbox="662 369 1436 817"> <thead> <tr> <th>Plans</th> <th>Tentative cost (In Rs)</th> <th>Time required for Preparation</th> <th>Duration of Implementation</th> </tr> </thead> <tbody> <tr> <td>Wildlife Management Plan</td> <td>35-45 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Soil & Moisture Conservation Plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Top soil management plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> </tbody> </table> <p>1. User Agency shall prepare and submit the above-mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA Account before actual breaking/ non-forestry use of the forest land.</p> <p>2. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>	Plans	Tentative cost (In Rs)	Time required for Preparation	Duration of Implementation	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	<p>III</p>
Plans	Tentative cost (In Rs)	Time required for Preparation	Duration of Implementation															
Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation															
Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation															
Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation															
<p>iii) In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.</p>																		
<p>iv) Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.</p>	<p>In this regard User agency has submitted revised Cost-Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06-01-2022. Enclosed as annexure- V</p>	<p>V</p>																
<p>v) Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be submitted along with complete detail of supporting attributes such</p>	<p>The User Agency has left a patch of 7.5 m of forest all along the Coal Block boundary as Proposed Safety Zone. The area of safety zone comes to be 2.9 Ha which is part of 699.38 Ha of forest land diversion proposal.</p> <p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone.</p>	<p>VI</p>																

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as afforestation scheme, suitability certificate, KML files, etc. The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure VI.

vi) From the purpose-wise breakup of forest land, the following may be ascertained:

a) An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource Department on the feasibility of said proposed diversion needs to be informed by the State.

1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River prepared by IIT Roorkee has been submitted by the User Agency. (The DPR enclosed by user agency in the form of CD as Annexure VII)

Diversion proposal has been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource Department has been enclosed by user agency as Annexure VIII).

VIII & VIII

b) An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.

As per the advice of MOEFCC, the land-use proposed in the earlier submitted Form-A has been revised by the User Agency with a view to reduce forest land for infrastructural components. The earlier and proposed land-use is given below:

IX

Earlier Land-Use for Infrastructure					Revised Land-Use for infrastructure			% Change in Forest Land
S N	Component	Forest Land	Non-Forest Land	Total Area (in Ha)	Forest Land	Non-Forest Land	Total Area (in Ha)	
1	2	3	4	5	6	7	8	(3-6)/3
1	CHP	9.30	5.52	14.82	4.45	3.41	7.86	- 52 %
2	Infrastructure (Field Workshop, Substation etc)	13.94	2.30	16.24	0.00	11.56	11.56	- 100 %
3	Road, bridge, culvert	4.38	14.20	18.58	4.38	14.20	18.58	0
	Total	27.62	22.02	49.64	8.83	29.17	38.00	-68 %

The plan is enclosed as Annexure IX.

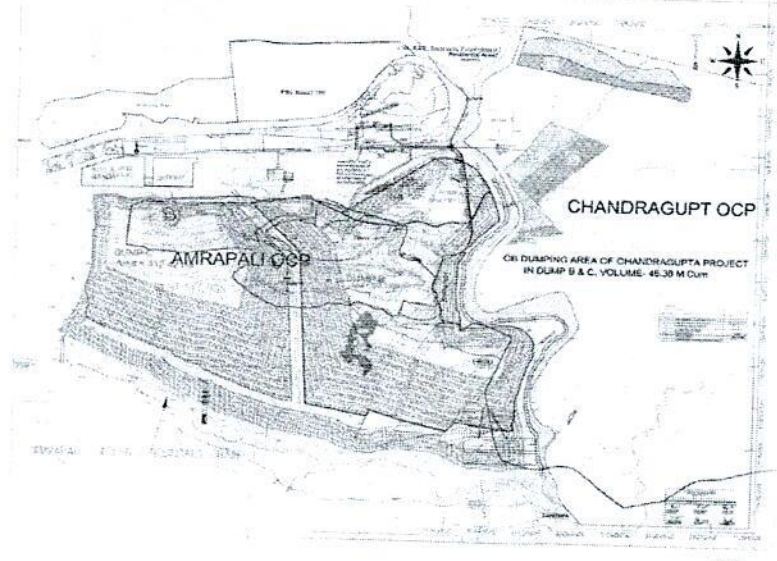
c) A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9 ha of forest land earmarked for safety zone. Rationalize for including green belt area

1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficult by the Forest Department.

2) The User Agency has submitted that, in compliance of generic condition of the EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease

<p>in the project which could otherwise be excluded from the project and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished</p>	<p>area. This apart, the statutory barriers against surface features like river, nallah, public road etc are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as barriers is developed and maintained as Green Belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks.</p> <ol style="list-style-type: none"> 3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary. 4) Also the User Agency has submitted that they have proposed the green belt as part of mitigation measures for dust suppression. <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. In view of this, it is proposed to maintain these parcels of land as green belt aggregating to 55.61 Ha (which includes 36.82 ha green belt proposed earlier plus 18.79 Ha of Forest land now made available due to shifting of infrastructural activities to non-forest land) as green belt as shown in the revised land use. The forest area earmarked as green belt will be kept and maintained as such, and no non-forestry activity should be undertaken therein.</p>	<p style="text-align: right;">21/6</p>
<p>d) Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.</p>	<p>The User Agency has submitted that,</p> <ol style="list-style-type: none"> 1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible. 2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself. 3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP. <p>Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt OCP is enclosed by User Agency as Annexure X</p>	<p>X&XI</p>

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Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as **Annexure XI**

<p>vii</p>	<p>Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:</p>	<p>Chatra South Division A total of 802.05 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XIV.</p> <p>Hazaribagh West Division A total of 597.30 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XII.</p>	
<p>a)</p>	<p>Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion</p>	<p>The User Agency has submitted that the roads passing through the Forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations.</p>	<p>XII</p>
<p>b)</p>	<p>As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.</p>	<p>The User Agency has submitted that, the barrage is not falling in the forest patch proposed for diversion. The barrage structure is approximately 140 mtrs away from the project boundary. However, a small part of stone pitched embankment is touching the South-Western boundary of the project at an approximate distance of 20 mtrs only.</p> <p>As per the approved Project Report of Chandragupt OCP: "The Southern Boundary has been fixed leaving a barrier of 100 mtr from the southern geological block boundary of Pachra South block."</p> <p>As such, the quarry edge will be 100 mtrs away from the embankment.</p> <p>(Barrage Location Plan is enclosed by User Agency in the form of CD & Hard copy as Annexure XIII)</p>	<p>XIII</p>
<p>c)</p>	<p>Google imagery shows the</p>	<p>DFO Chatra South</p>	<p>XIV</p>

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encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.

d) An earthen pond created recently in the CA patch namely Mahuari and New Road has been constructed in the CA patch namely Village – Kendua.

e) Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.

Has submitted that total of 800.00 Ha of degraded forest land was proposed as CA land in Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22-09-2023, the CA sites were physically verified. Upon verification of the proposed CA sites, a total of 254.25 Ha of degraded forest land was found unfit for CA plantations due to presence of trees, encroachments, water bodies etc. Rest 545.75 Ha. of degraded forest land was found fit for CA plantations. In this regard encumbrance free alternative fresh CA land to the tune of 256.30 Ha (Chatra South: 47.3Ha & Chatra North:209Ha) along with CA Scheme, Suitability Certificate has been made available. Hence, a total of 802.05 Ha (545.25 Ha + 256.30 Ha) has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as **Annexure: XIV.**

DFO Hazaribagh West

In this regarding A total of 600 ha. of degraded forest land was proposed as CA land under Hazaribagh West Forest Division and Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22.09.2023, the CA sites were physically verified. After verification it was found that 262.30 ha land was not suitable for CA plantation on account of various reasons as mentioned in the table below. A fresh encumbrance free CA land of 259.60 ha has been proposed in Hazaribagh West Forest Division & Chatra South Forest Division. Thus a total of 597.70 (Previous proposed CA land 337.70 ha. under and proposed fresh CA land 259.60 Ha. under Hazaribagh West Forest Division & Chatra South Forest Division) has been proposed against diverted land of 298.42 ha. CA Scheme and Suitability Certificate, KML, DGPS & Topo Maps as enclosed as **Annexure: XII**

Details are given below: -

Details of CA Land						
S. No	Name of the PF/RF	Range	Compartment No	Proposed Area (Ha)	Remarks	After verification area (Ha)
1	Basaria	Barhi	132, 133, 134	15.00	Earthen Dam present	10.00
2	Basaria	Barhi	17,22,23,25, 26,79	41.68	Mined out Area & Plantation work	
3	Basaria	Barhi	170	5.00	Encroachment of Agriculture land in the CA patch namely	
4	Mungarmao	Barhi	100, 107, 110, 113	20.00		19.91

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5	Chandgarh	Barhi	131, 133, 134, 139	64.88		64.70
6	Jatghagra	Barhi	80	6.00	Encroachment of Agriculture land in the CA patch namely	
7	Lachudih	Barhi	34, 43, 45	16.75		16.75
8	Gaira	Barhi	3050, 3081	26.00	Plantation work carried out in CA	
9	Lohri	Chatra	32, 33, 34, 35	45.00	Encroachment of Agriculture land in the CA patch	
10	Sinduarikhurd	Chatra	2P, 3P, 4P, 5P	29.65		29.65
11	Unta	Chatra	1P	50.00		49.99
12	Deochanda	Barhi	853, 870, 872, 873	95.24	Encroachment of Agriculture and plantation activities visible	
13	Lachudih	Barhi	18 & 19	23.25		23.00
14	Jatghagra	Barhi	155	5.00		5.00
15	Jatghagra	Barhi	1289, 1345	16.00	Encroachment of Agriculture land in the CA patch namely	11.00
16	Kendua	Barhi	2, 14, 26, 149, 190, 192	40.24		39.00
17	Kendua	Barhi	428, 429, 432, 433	46.19	New Road has been constructed in the CA patch	34.70
18	Jarahiya	Barhi	143, 194	34.12		34.00
19	Gaira	Barhi	3081	20.00	plantation work carried out recently	
Total				600.00		337.70
Proposed Fresh CA Land						
20	Damdoya	Chatra	1359			5.80

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21	Dahu	Tandwa	1585,1594, 1611, 1472P, 1931P, 1935P, 1936P	-	23.80	
22	Madhuban	Barhi	1019(P)	-	25.00	
23	Lokiya	Barhi	1(P), 421(P), 592(P), 598(P)	-	50.00	
24	Badiyajwar	Barhi	750(P), 751(P), 752(P)	-	38.00	
25	Balori	Barhi	62(P), 63(P), 64(P), 65(P)	-	68.00	
26	Simarkurha	Barhi	409, 412, 413, 414, 415, 419, 421, 423	-	49.00	
					Total	259.60
					Grand Total	597.30

viii)	<p>Quantitative details of deaths of human and elephants in last five years may be furnished by the State along with details of existing and proposed elephant corridors in the landscape.</p>	<p>Chatra South Division Quantitative details of deaths of Human and Elephants in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV. DFO Chatra South Division has submitted that there is no Notified Elephant Corridors in Chatra South Forest Division. On the basis of elephant movements, three elephant corridors have been proposed in Chatra South forest division. However, the proposed mining project does not fall on any of these proposed elephant corridors.</p> <p>Hazaribagh West Division In this regard quantitative details of deaths of human and elephants in last five years i.e., 2019-20 to 2023-24 as attached under Hazaribagh West Forest Division. (Details enclosed as Annexure-XIII) DFO Hazaribagh West Division has submitted that there is no notified elephant corridors in Hazaribagh West Forest Division. On the basis of elephant movements, five elephant corridors have been proposed in Hazaribagh West Forest Division. However, the proposed mining project does not have any of these proposed elephant corridors.</p>
ix)	<p>External dump is being proposed in 86.16 ha of land in Amrapali OCP,</p>	<p>The User Agency has submitted that the external dump of Chandragupta OCP is proposed in an area of 89.16 Ha of land in Amrapali OCP. The approval of Project report enclosed in the</p>

	<p>which is not given in the proposal but included in Mining Plan. Therefore, compliance status of Amrapali OCP shall be submitted.</p>	<p>form of CD of Amrapali OCP along with approved dumping strategy plan is attached as Annexure XVI in Chatra South and Annexure XIV in Hazaribagh West quick perusal. The compliance status of already diverted forest proposal of 531.64 Ha in respect of Amrapali OCP is enclosed Compliance report of Amrapali by User Agency as Annexure XVII in Chatra South and Annexure XV in Hazaribagh West folder.</p>	
<p>x)</p>	<p>In case Amrapali OCP is not of the UA then an NOC from the UA of Amrapali OCP shall be submitted.</p>	<p>The User Agency has submitted that both Amrapali OCP and Chandragupta OCP are the projects of Central Coalfields Limited under the administrative control of 'Amrapali & Chandragupt Area'. As such, no NOC is required for Chandragupta OCP from Amrapali OCP.</p>	
<p>xi)</p>	<p>Amrapali OCP boundary is in the west side of the Barki River, the impact of having mining on both the sides of river will require deep understanding of the impact of hydrology of the river, so comments of the State shall be submitted in this regard.</p>	<p>CMPDIL, Ranchi has prepared a Report on the Anticipated Impacts of proposed mining on either side of Barki River and its management plan. (Report of CMPDIL is attached by User Agency as Annexure-XVIII).</p> <p>Following are the key findings of the report:</p> <ol style="list-style-type: none"> 1) There shall not be any obstruction to the flow of Barki River. Mining is proposed by leaving approx. 100 m on Amrapali side and 60 m on Chandragupt side from the HFL of the River. 2) This safety zone will act as a buffer between the natural stream and active mining area, thereby safeguarding the banks of Barki River from erosion, keeping the catchment area for stream assisted by natural channel slope, sustaining the stream flow, and preserving the riverine eco-system. 3) During heavy rainfall conditions, the active mine sumps will act as surge ponds and effectively reduce the peak flow rates in Barki River. Thus, Barki River will not experience any flooding-related problems during heavy rainfall. <p>Additionally, as part of the study on diversion of Chutki nalla, IIT Roorkee has conducted a study on Barki river also. The study states that Barki has a catchment of 231.50 sqkm. The study suggests no risk of flooding on the surrounding landscape. Also any deficit in natural run-off will be compensated by mine discharge and run-off from reclaimed land and hence there will not be any variation in the flow of Barki river.</p> <p>Therefore, it can be ascertained that there will not be any direct impact of proposed mining on the surface hydrology of Barki River. Control measures like toe wall, garland drain, check dams and siltation ponds to arrest siltation, and ETP with oil and grease removal mechanism to treat workshop effluents, will be in place. (The DPR from IIT,ROORKEE is enclosed in the form of CD by User Agency as Annexure VII)</p>	<p>XVIII</p>

xii)	A high level bridge over Barki river needs to be constructed to connect the proposed OCP, the location of the bridge and its connectivity should be shown through KML for further DSS analysis.	A high-level bridge over Barki river for connectivity with the Chandragupt OCP is proposed by the user Agency. The KML file is attached <i>in the form of CD by User Agency as Annexure XIX</i>	XIX
xiii)	Chotki river falling in the proposed site has to be diverted as per the proposal but the site inspection report or the comments of the State is silent on it, specially about its impact on the water security and hydrological cycle downstream.	The User Agency has submitted that the Sub Divisional Officer, Waterways Subdivision, Hazaribagh of Govt of Jharkhand has carried out site inspection of Chhotki river and submitted report to Executive Engineer, Water Resource Department with comments and recommendation. The diversion proposal has further been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NoC.	
xiv)	Since the area has elephant therefore the cases of the Human Elephant conflicts in the district needs to be looked into, for which deaths of human and elephants in the Chatra and Hazaribagh district in last five years to be provided. Loss of property and crop damage and compensation given and pending should also be provided.	Quantitative details of deaths of human and elephants and Loss of property and crop damage and compensation in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV and Hazaribagh West Forest Division is attached as Annexure-XIII	
xv)	Recommendation of the CWLW will be needed specially regarding need of wildlife management and mitigation of conflict plan.	The CWLW has given comments regarding need of wildlife Management and mitigation of Man and Animal conflict. (Copy enclosed as Annexure I)	I

वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल एवं वन प्रमंडल पदाधिकारी, हजारीबाग पश्चिमी वन प्रमंडल से प्राप्त निराकरण प्रतिवेदन की पांच-पांच प्रतियां सभी अनुलग्नकों सहित संलग्न अग्रतर आवश्यक कार्रवाई हेतु समर्पित की जा रही है।

अनु:- यथोक्त।

आपका विश्वासी,

 क्षेत्रीय मुख्य वृक्ष संरक्षक,
 चतरा वन प्रमंडल।



कार्यालय :- वन संरक्षक, प्रादेशिक अंचल चतरा।

वन भवन, स्थान+पो0+जिला- चतरा, झारखण्ड - 825401

E-mail Address : cf-chatra@gov.in , Phone No. : 06541-253690

पत्रांक : 60

दिनांक : 30.01.2024

सेवा में,

क्षेत्रीय मुख्य वन संरक्षक,
हजारीबाग।

विषय:- सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत-400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत-298.42 हे0) वन भूमि अपयोजन (ऑनलाईन प्रस्ता0 सं0 PF/JH/MIN/140599/2021) प्रस्ताव के संबंध में।

प्रसंग :- आपका ज्ञापांक 2354 दिनांक 05.10.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संदर्भ में सूचित करना है कि विषयक परियोजना सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत 298.42 हे0) वनभूमि अपयोजन प्रस्ताव में भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023 द्वारा पन्द्रह बिन्दुओं पर पृच्छा की गई है। पृच्छित बिन्दुओं का निराकरण प्रतिवेदन वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल के पत्रांक 166 दिनांक 22.01.2024 से समर्पित किया गया है। वन प्रमंडल पदाधिकारी से प्राप्त निराकरण प्रतिवेदन बिन्दुवार निम्नवत् है:-

Condi tion No.	Queries raised by Gol	Compliance report	Anne xure
1	3	5	
i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments	The applied area is a good habitat of wildlife. Its surrounding area also, being a good habitat of many wild animals, shall definitely bear some impact on wild animals inhabiting the area for which a Wildlife Management Plan shall be required. The Asian Elephant, the endangered one, through do not reside in the proposed area permanently, they visit these areas every year in search food and fodder and damage the crops, houses etc., In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal.	I, II & III

CCL Chandrapur OCP 699.38 ha

हजारीबाग

337

05.02.24

	<p>may also be furnished on the adequacy of mitigation measures like Site Specific Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.</p>	<p>The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in-principle approval. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>																	
<p>ii)</p>	<p>The authorities in the State Forest Department have recommended preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against them, their tentative cost, time required for preparation and duration of implementation, etc. need to be furnished by the State.</p>	<p>The plans as recommended by State Forest department along with their tentative cost, time required for preparation and duration of implementation is given as under</p> <table border="1" data-bbox="614 519 1408 1041"> <thead> <tr> <th>Plans</th> <th>Tentative cost (In Rs)</th> <th>Time required for Preparation</th> <th>Duration of Implementation</th> </tr> </thead> <tbody> <tr> <td>Wildlife Management Plan</td> <td>35-45 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Soil & Moisture Conservation Plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Top soil management plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> </tbody> </table> <p>1. User Agency shall prepare and submit the above-mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA Account before actual breaking/ non-forestry use of the forest land. 2. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>	Plans	Tentative cost (In Rs)	Time required for Preparation	Duration of Implementation	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
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<p>iii)</p>	<p>In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.</p>	<p>1. User Agency shall prepare and submit the above-mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA Account before actual breaking/ non-forestry use of the forest land. 2. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>	<p>III</p>																
<p>iv)</p>	<p>Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.</p>	<p>In this regard User agency has submitted revised Cost-Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06-01-2022. Enclosed as annexure- V</p>	<p>V</p>																
<p>v)</p>	<p>Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be</p>	<p>The User Agency has left a patch of 7.5 m of forest all along the Coal Block boundary as Proposed Safety Zone. The area of safety zone comes to be 2.9 Ha which is part of 699.38 Ha of forest land diversion proposal.</p>	<p>VI</p>																

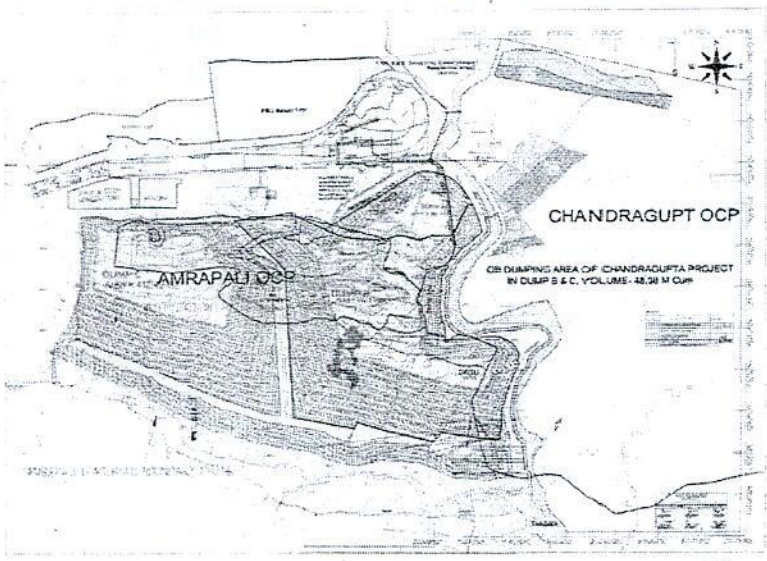
1737

	<p>submitted along with complete detail of supporting attributes such as afforestation scheme, suitability certificate, KML files, etc.</p>	<p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone. The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure VI.</p>																																																															
vi)	<p>From the purpose-wise breakup of forest land, the following may be ascertained:</p>																																																																
a)	<p>An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource Department on the feasibility of said proposed diversion needs to be informed by the State.</p>	<p>1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River prepared by IIT Roorkee has been submitted by the User Agency. (The DPR enclosed by user agency in the form of CD as Annexure VII) Diversion proposal has been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource Department has been enclosed by user agency as Annexure VIII).</p>	<p>VII & VIII</p>																																																														
b)	<p>An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.</p>	<p>As per the advice of MOEFCC, the land-use proposed in the earlier submitted Form-A has been revised by the User Agency with a view to reduce forest land for infrastructural components. The earlier and proposed land-use is given below:</p> <table border="1" data-bbox="611 1097 1411 1758"> <thead> <tr> <th colspan="5">Earlier Land-Use for Infrastructure</th> <th colspan="3">Revised Land-Use for infrastructure</th> <th rowspan="2">% Change in Forest Land</th> </tr> <tr> <th>S N</th> <th>Component</th> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>(3-6)/3</td> </tr> <tr> <td>1</td> <td>CHP</td> <td>9.30</td> <td>5.52</td> <td>14.82</td> <td>4.45</td> <td>3.41</td> <td>7.86</td> <td>-52 %</td> </tr> <tr> <td>2</td> <td>Infrastructure (Field Workshop, Substation etc)</td> <td>13.94</td> <td>2.30</td> <td>16.24</td> <td>0.00</td> <td>11.56</td> <td>11.56</td> <td>-100 %</td> </tr> <tr> <td>3</td> <td>Road, bridge, culvert</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>0</td> </tr> <tr> <td></td> <td>Total</td> <td>27.62</td> <td>22.02</td> <td>49.64</td> <td>8.83</td> <td>29.17</td> <td>38.00</td> <td>-68 %</td> </tr> </tbody> </table> <p>The plan is enclosed as Annexure IX.</p>	Earlier Land-Use for Infrastructure					Revised Land-Use for infrastructure			% Change in Forest Land	S N	Component	Forest Land	Non-Forest Land	Total Area (in Ha)	Forest Land	Non-Forest Land	Total Area (in Ha)	1	2	3	4	5	6	7	8	(3-6)/3	1	CHP	9.30	5.52	14.82	4.45	3.41	7.86	-52 %	2	Infrastructure (Field Workshop, Substation etc)	13.94	2.30	16.24	0.00	11.56	11.56	-100 %	3	Road, bridge, culvert	4.38	14.20	18.58	4.38	14.20	18.58	0		Total	27.62	22.02	49.64	8.83	29.17	38.00	-68 %	<p>IX</p>
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c)	<p>A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9</p>	<p>1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficult by the Forest Department.</p>																																																															

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	<p>ha of forest land earmarked for safety zone. Rationalize for including green belt area in the project which could otherwise be excluded from the project and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished</p>	<p>2) The User Agency has submitted that, in compliance of generic condition of the EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease area. This apart, the statutory barriers against surface features like river, nallah, public road etc are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as barriers is developed and maintained as Green Belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks.</p> <p>3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary.</p> <p>4) Also the User Agency has submitted that they have proposed the green belt as part of mitigation measures for dust suppression.</p> <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. In view of this, it is proposed to maintain these parcels of land as green belt aggregating to 55.61 Ha (which includes 36.82 ha green belt proposed earlier plus 18.79 Ha of Forest land now made available due to shifting of infrastructural activities to non-forest land) as green belt as shown in the revised land use. The forest area earmarked as green belt will be kept and maintained as such, and no non-forestry activity should be undertaken therein.</p>	
<p>d)</p>	<p>Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.</p>	<p>The User Agency has submitted that,</p> <p>1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible.</p> <p>2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself.</p> <p>3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP.</p> <p>Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt OCP is enclosed by User Agency as Annexure X</p>	<p>X&XI</p>

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		 <p>Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as Annexure XI</p>	
<p>vii</p>	<p>Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:</p>	<p>A total of 802.05 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XIV.</p>	<p>XIV</p>
<p>a)</p>	<p>Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion</p>	<p>The User Agency has submitted that the roads passing through the Forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations.</p>	<p>XII</p>
<p>b)</p>	<p>As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.</p>	<p>The User Agency has submitted that, the barrage is not falling in the forest patch proposed for diversion. The barrage structure is approximately 140 mtrs away from the project boundary. However, a small part of stone pitched embankment is touching the South-Western boundary of the project at an approximate distance of 20 mtrs only.</p> <p>As per the approved Project Report of Chandragupt OCP: "The Southern Boundary has been fixed leaving a barrier of 100 mtr from the southern geological block boundary of Pachra South block." As such, the quarry edge will be 100 mtrs away from the embankment. (Barrage Location Plan is enclosed by User Agency in the form of CD & Hard copy as Annexure XIII)</p>	<p>XIII</p>
<p>c)</p>	<p>Google imagery shows the encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.</p>	<p>DFO Chatra South has submitted that total of 800.00 Ha of degraded forest land was proposed as CA land in Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22-09-2023, the CA sites were physically verified. Upon verification of the proposed CA sites, a total of</p>	<p>XIV</p>

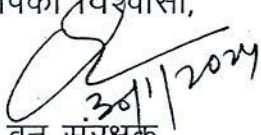
d)	An earthen pond created recently in the CA patch namely Mahuari and New Road has been constructed in the CA patch namely Village – Kendua.	254.25 Ha of degraded forest land was found unfit for CA plantations due to presence of trees, encroachments, water bodies etc. Rest 545.75 Ha. of degraded forest land was found fit for CA plantations. In this regard encumbrance free alternative fresh CA land to the tune of 256.30 Ha (Chatra South: 47.3Ha & Chatra North:209Ha) along with CA Scheme, Suitability Certificate has been made available. Hence, a total of 802.05 Ha (545.25 Ha + 256.30 Ha) has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XIV .	(74)
e)	Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.		
viii)	Quantitative details of deaths of human and elephants in last five years may be furnished by the State along with details of existing and proposed elephant corridors in the landscape.	Quantitative details of deaths of Human and Elephants in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV . DFO Chatra South Division has submitted that there is no Notified Elephant Corridors in Chatra South Forest Division. On the basis of elephant movements, three elephant corridors have been proposed in Chatra South forest division. However, the proposed mining project does not fall on any of these proposed elephant corridors.	XV
ix)	External dump is being proposed in 86.16 ha of land in Amrapali OCP, which is not given in the proposal but included in Mining Plan. Therefore, compliance status of Amrapali OCP shall be submitted.	The User Agency has submitted that the external dump of Chandragupta OCP is proposed in an area of 89.16 Ha of land in Amrapali OCP. The approval of Project report enclosed in the form of CDof Amrapali OCP along with approved dumping strategy plan is attached as Annexure XVI for quick perusal. The compliance status of already diverted forest proposal of 531.64 Ha in respect of Amrapali OCP is enclosed Compliance report of Amrapali by User Agency as Annexure XVII)	XVI & XVII
x)	In case Amrapali OCP is not of the UA then an NOC from the UA of Amrapali OCP shall be submitted.	The User Agency has submitted that both Amrapali OCP and Chandragupta OCP are the projects of Central Coalfields Limited under the administrative control of 'Amrapali & Chandragupt Area'. As such, no NOC is required for Chandragupta OCP from Amrapali OCP.	
xi)	Amrapali OCP boundary is in the west side of the Barki River, the impact of having mining on both the sides of river will require deep understanding of the impact of hydrology of the river, so comments of the State shall be submitted in this regard.	CMPDIL, Ranchi has prepared a Report on the Anticipated Impacts of proposed mining on either side of Barki River and its management plan. (Report of CMPDIL is attached by User Agency as Annexure-XVIII). Following are the key findings of the report: 1) There shall not be any obstruction to the flow of Barki River. Mining is proposed by leaving approx. 100 m on Amrapali side and 60 m on Chandragupt side from the HFL of the River. 2) This safety zone will act as a buffer between the natural stream and active mining area, thereby safeguarding the banks of Barki River from erosion, keeping the catchment area for stream assisted by natural channel slope, sustaining the stream flow, and preserving the riverine eco-system.	XVIII

		<p>3) During heavy rainfall conditions, the active mine sumps will act as surge ponds and effectively reduce the peak flow rates in Barki River. Thus, Barki River will not experience any flooding-related problems during heavy rainfall.</p> <p>Additionally, as part of the study on diversion of Chutki nalla, IIT Roorkee has conducted a study on Barki river also. The study states that Barki has a catchment of 231.50 sqkm. The study suggests no risk of flooding on the surrounding landscape.</p> <p>Also any deficit in natural run-off will be compensated by mine discharge and run-off from reclaimed land and hence there will not be any variation in the flow of Barki river.</p> <p>Therefore, it can be ascertained that there will not be any direct impact of proposed mining on the surface hydrology of Barki River.</p> <p>Control measures like toe wall, garland drain, check dams and siltation ponds to arrest siltation, and ETP with oil and grease removal mechanism to treat workshop effluents, will be in place. <i>(The DPR from IIT,ROORKEE is enclosed in the form of CD by User Agency as Annexure VII)</i></p>	
xii)	<p>A high level bridge over Barki river needs to be constructed to connect the proposed OCP, the location of the bridge and its connectivity should be shown through KML for further DSS analysis.</p>	<p>A high-level bridge over Barki river for connectivity with the Chandragupt OCP is proposed by the user Agency. The KML file is attached <i>in the form of CD by User Agency as Annexure XIX)</i></p>	XIX
xiii)	<p>Chotki river falling in the proposed site has to be diverted as per the proposal but the site inspection report or the comments of the State is silent on it, specially about its impact on the water security and hydrological cycle downstream.</p>	<p>The User Agency has submitted that the Sub Divisional Officer, Waterways Subdivision, Hazaribagh of Govt of Jharkhand has carried out site inspection of Chhotki river and submitted report to Executive Engineer, Water Resource Department with comments and recommendation.</p> <p>The diversion proposal has further been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NoC.</p>	
xiv)	<p>Since the area has elephant therefore the cases of the Human Elephant conflicts in the district needs to be looked into, for which deaths of human and elephants in the Chatra and</p>	<p>Quantitative details of deaths of human and elephants and Loss of property and crop damage and compensation in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division is attached as Annexure-XV</p>	

	Hazaribagh district in last five years to be provided. Loss of property and crop damage and compensation given and pending should also be provided.		(12)
xv)	Recommendation of the CWLW will be needed specially regarding need of wildlife management and mitigation of conflict plan.	The CWLW has given comments regarding need of wildlife Management and mitigation of Man and animal conflict. (Copy enclosed as Annexure I)	I

वन प्रमंडल पदाधिकारी, चतरा दक्षिणी वन प्रमंडल से प्राप्त निराकरण प्रतिवेदन की छः प्रतियां इस पत्र के साथ संलग्न कर अग्रेतर आवश्यक कार्रवाई हेतु समर्पित की जा रही है।

अनु०-यथोक्त।

आपका विश्वासी,

 30/1/2024
 वन संरक्षक,
 प्रादेशिक अंचल, चतरा।



कार्यालय : वन संरक्षक, प्रादेशिक अंचल, हजारीबाग

वन भवन - 1, हजारीबाग 825301 (झारखण्ड)

Ph. & Fax (O) - 06546-222393, Cell No. : 8987790202 E-mail: cf-hazaribagh@gov.in

पत्रांक: 225

दिनांक : 05.02.2024

सेवा में,

क्षेत्रीय मुख्य वन संरक्षक,
हजारीबाग।

विषय :-

सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत- 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत- 298.42 हे0) वन भूमि अपयोजन (ऑनलाईन प्रस्ताव सं0- PF/JH/MIN/140599/2021) प्रस्ताव के संबंध में।

प्रसंग :-

प्रधान मुख्य वन संरक्षक -सह- कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का पत्रांक 979 दिनांक 03.10.2023 एवं आपका ज्ञापांक 2354 दिनांक 05.10.2023

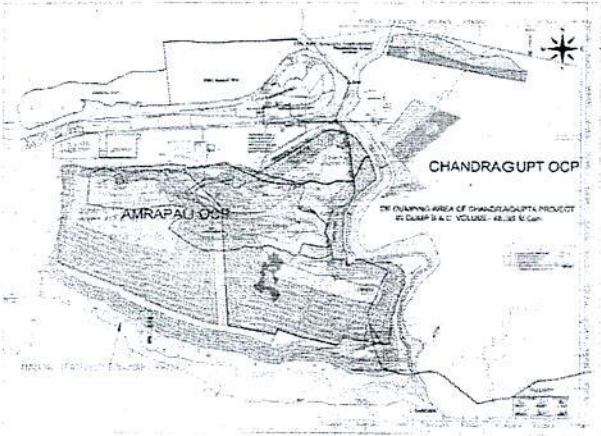
महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संदर्भ में सूचित करना है कि विषयक परियोजना में भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, न्यू दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023 द्वारा 15 बिन्दुओं पर पृच्छा की गई है, जिसके आलोक में वन प्रमंडल पदाधिकारी, हजारीबाग पश्चिमी वन प्रमंडल ने अपने पत्रांक 867 दिनांक 05.02.2024 द्वारा बिन्दुवार निराकरण प्रतिवेदन प्रयोक्ता अभिकरण से प्राप्त कर इस कार्यालय में समर्पित किया गया है। निराकरण प्रतिवेदन की स्थिति निम्नवत है-

Con dition No.	Queries raised by GoI	Compliance report	Annex ure				
1	3	5					
i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments may also be furnished on the adequacy of mitigation measures like Site Specific Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.	<p>The applied area is a good habitat of wildlife, the proposed area and its surrounding area also, being a habitat of many wild animals, shall definitely bear some impacts on residing and adjoining wild animals for which a Wildlife Management Plan shall be required," the Asian Elephant, the endangered ones, through do not reside in the proposed areas, they visit these areas every year in search food and fodder and damage the crops, houses etc.,</p> <p>In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal.</p> <p>The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in principle approval.</p> <p>In this regard, the user agency has submitted a certificate of Undertaking. Enclosed as Annexure-III)</p>	I, II & III				
ii)	The authorities in the State Forest Department have recommended preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against them, their tentative cost, time	<p>The plans as recommended by State Forest department along with their tentative cost, timeline for preparation and duration of implementation is given as under:-</p> <table border="1"><thead><tr><th>Plans</th><th>Tentative cost (In Rs)</th><th>Timeline for Preparation</th><th>Duration of Implementation</th></tr></thead><tbody></tbody></table>	Plans	Tentative cost (In Rs)	Timeline for Preparation	Duration of Implementation	
Plans	Tentative cost (In Rs)	Timeline for Preparation	Duration of Implementation				

	required for preparation and duration of implementation, etc. need to be furnished by the State.	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
iii)	In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.	Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	III
		Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
<p>1. User Agency shall prepared and submit the above mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA account before actual breaking/ non-forestry use of the forest land.</p> <p>2. In this regard, the user agency has submitted a certificate of Undertaking. Enclosed as annexure-III)</p>						
iv)	Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.	In this regard User agency has been submitted revised Cost Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06.01.2022. Enclosed as annexure- V				V
v)	Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be submitted along with complete detail of supporting attributes such as afforestation scheme, suitability certificate, KML files, etc.	<p>The user agency has left a patch 7.5m of forest land all along the Coal Block Boundary as proposed Safety Zone. The area of safety zone comes to be 2.9 ha. which is part of 699.38 Ha of forest land diversion proposal. Plantation and subsequent maintenance of the safety zone will be done by the user agency at their own cost.</p> <p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone.</p> <p>The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure VI.</p>				VI
vi)	From the purpose-wise breakup of forest land, the following may be ascertained:					
a)	An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource Department on the	1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River has been prepared by IIT Roorkee. (The DPR enclosed by user agency in the form of CD as Annexure VII)				VII & VIII

	<p>feasibility of said proposed diversion needs to be informed by the State.</p>	<p>Diversion proposal has been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource Department has been enclosed by user agency as Annexure VIII).</p>	
b)	<p>An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.</p>	<p>This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.</p>	
c)	<p>A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9 ha of forest land earmarked for safety zone. Rationalize for including green belt area in the project which could otherwise be excluded from the project and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished</p>	<ol style="list-style-type: none">1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficulty by the Forest Department.2) The User Agency has submitted that, in compliance of generic condition of EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease area. This apart, the statutory barriers against surface features like river, nallah, public road etc. are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as barriers is developed and maintained as Green belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks.3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary.4) Also the user agency has submitted they have proposed the green belt as part of mitigation measures for dust suppression. <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. Further since this land is not a concentrated land parcel therefore, it is proposed that 55.61 Ha (which includes 36.82 ha green belt proposed earlier + 18.79 Ha. forest land now made available due to shifting of infrastructural activities to non-forest) of land will be managed as green belt by the user agency after getting it demarcated on the ground by means of erecting RCC pillars. The area will be kept and maintained as such and no non-forest activity should be undertaken therein.</p>	

<p>d)</p>	<p>Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.</p>	<p>The User Agency has submitted that,</p> <ol style="list-style-type: none"> 1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible. 2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself. 3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP. <p>Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt OCP is enclosed by User Agency as Annexure IX Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as Annexure X</p> 	<p>IX & X</p>
<p>vii</p>	<p>Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:</p>		
<p>a)</p>	<p>Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion</p>	<p>The User Agency has submitted that the roads passing through the forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations. (Correspondence letters enclosed as Annexure XI).</p>	<p>XI</p>
<p>b)</p>	<p>As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.</p>	<p>This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.</p>	

<p>c) Google imagery shows the encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.</p>	<p>In this regarding A total of 600 ha. of degraded forest land was proposed as CA land under Hazaribagh West Forest Division and Chatra South Forest Division. In light of the observations made by MoEF&CC, Gol vide letter dated 22.09.2023, the CA sites were physically verified. After verification it was found that 262.30 ha land was not suitable for CA</p>	<p>XII</p>																																																																																																																																												
<p>d) An earthen pond created recently in the CA patch namely Mahuari and New Road has been constructed in the CA patch namely Village – Kendua.</p>	<p>plantation on account of various reasons as mentioned in the table below. A fresh encumbrance free CA land of 259.60 ha has been proposed in Hazaribagh West Forest Division & Chatra South Forest Division. Thus a total of 597.70 (Previous proposed CA land 337.70 ha. under and proposed fresh CA land 259.60 Ha. under Hazaribagh West Forest Division & Chatra South Forest Division) has been proposed against diverted land of 298.42 ha. CA Scheme and Suitability Certificate, KML, DGPS & Topo Maps as enclosed as Annexure: XII</p>																																																																																																																																													
<p>e) Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.</p>	<p>Details are given below: -</p> <table border="1" data-bbox="627 616 1395 1960"> <thead> <tr> <th colspan="7">Details of CA Land</th> </tr> <tr> <th>S. No</th> <th>Name of the PF/RF</th> <th>Range</th> <th>Compartment No</th> <th>Proposed Area (Ha)</th> <th>Remarks</th> <th>After verification area (Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Basaria</td> <td>Barhi</td> <td>132, 133, 134</td> <td>15.00</td> <td>Earthen Dam present</td> <td>10.00</td> </tr> <tr> <td>2</td> <td>Basaria</td> <td>Barhi</td> <td>17,22,23,25, 26,79</td> <td>41.68</td> <td>Mined Out Area & Plantation work</td> <td></td> </tr> <tr> <td>3</td> <td>Basaria</td> <td>Barhi</td> <td>170</td> <td>5.00</td> <td>Encroachment of Agriculture land in the CA patch namely</td> <td></td> </tr> <tr> <td>4</td> <td>Mungarmao</td> <td>Barhi</td> <td>100, 107, 110, 113</td> <td>20.00</td> <td></td> <td>19.91</td> </tr> <tr> <td>5</td> <td>Chandgarh</td> <td>Barhi</td> <td>131, 133, 134, 139</td> <td>64.88</td> <td></td> <td>64.70</td> </tr> <tr> <td>6</td> <td>Jatghagra</td> <td>Barhi</td> <td>80</td> <td>6.00</td> <td>Encroachment of Agriculture land in the CA patch namely</td> <td></td> </tr> <tr> <td>7</td> <td>Lachudih</td> <td>Barhi</td> <td>34, 43, 45</td> <td>16.75</td> <td></td> <td>16.75</td> </tr> <tr> <td>8</td> <td>Gaira</td> <td>Barhi</td> <td>3050, 3081</td> <td>26.00</td> <td>Plantation work carried out in CA</td> <td></td> </tr> <tr> <td>9</td> <td>Lohri</td> <td>Chatra</td> <td>32, 33, 34, 35</td> <td>45.00</td> <td>Encroachment of Agriculture land in the CA patch</td> <td></td> </tr> <tr> <td>10</td> <td>Sinduanikhurd</td> <td>Chatra</td> <td>2P, 3P, 4P, 5P</td> <td>29.65</td> <td></td> <td>29.65</td> </tr> <tr> <td>11</td> <td>Unta</td> <td>Chatra</td> <td>1P</td> <td>50.00</td> <td></td> <td>49.99</td> </tr> <tr> <td>12</td> <td>Deochanda</td> <td>Barhi</td> <td>853, 870, 872, 873</td> <td>95.24</td> <td>Encroachment of Agriculture and plantation activities visible</td> <td></td> </tr> <tr> <td>13</td> <td>Lachudih</td> <td>Barhi</td> <td>18 & 19</td> <td>23.25</td> <td></td> <td>23.00</td> </tr> <tr> <td>14</td> <td>Jatghagra</td> <td>Barhi</td> <td>155</td> <td>5.00</td> <td></td> <td>5.00</td> </tr> <tr> <td>15</td> <td>Jatghagra</td> <td>Barhi</td> <td>1289, 1345</td> <td>16.00</td> <td>Encroachment of Agriculture land in the CA patch namely</td> <td>11.00</td> </tr> <tr> <td>16</td> <td>Kendua</td> <td>Barhi</td> <td>2, 14, 26, 149, 190, 192</td> <td>40.24</td> <td></td> <td>39.00</td> </tr> <tr> <td>17</td> <td>Kendua</td> <td>Barhi</td> <td>428, 429, 432, 433</td> <td>46.19</td> <td>New Road has been constructed in the CA patch</td> <td>34.70</td> </tr> <tr> <td>18</td> <td>Jarahiya</td> <td>Barhi</td> <td>143, 194</td> <td>34.12</td> <td></td> <td>34.00</td> </tr> </tbody> </table>	Details of CA Land							S. No	Name of the PF/RF	Range	Compartment No	Proposed Area (Ha)	Remarks	After verification area (Ha)	1	Basaria	Barhi	132, 133, 134	15.00	Earthen Dam present	10.00	2	Basaria	Barhi	17,22,23,25, 26,79	41.68	Mined Out Area & Plantation work		3	Basaria	Barhi	170	5.00	Encroachment of Agriculture land in the CA patch namely		4	Mungarmao	Barhi	100, 107, 110, 113	20.00		19.91	5	Chandgarh	Barhi	131, 133, 134, 139	64.88		64.70	6	Jatghagra	Barhi	80	6.00	Encroachment of Agriculture land in the CA patch namely		7	Lachudih	Barhi	34, 43, 45	16.75		16.75	8	Gaira	Barhi	3050, 3081	26.00	Plantation work carried out in CA		9	Lohri	Chatra	32, 33, 34, 35	45.00	Encroachment of Agriculture land in the CA patch		10	Sinduanikhurd	Chatra	2P, 3P, 4P, 5P	29.65		29.65	11	Unta	Chatra	1P	50.00		49.99	12	Deochanda	Barhi	853, 870, 872, 873	95.24	Encroachment of Agriculture and plantation activities visible		13	Lachudih	Barhi	18 & 19	23.25		23.00	14	Jatghagra	Barhi	155	5.00		5.00	15	Jatghagra	Barhi	1289, 1345	16.00	Encroachment of Agriculture land in the CA patch namely	11.00	16	Kendua	Barhi	2, 14, 26, 149, 190, 192	40.24		39.00	17	Kendua	Barhi	428, 429, 432, 433	46.19	New Road has been constructed in the CA patch	34.70	18	Jarahiya	Barhi	143, 194	34.12		34.00	
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13	Lachudih	Barhi	18 & 19	23.25		23.00																																																																																																																																								
14	Jatghagra	Barhi	155	5.00		5.00																																																																																																																																								
15	Jatghagra	Barhi	1289, 1345	16.00	Encroachment of Agriculture land in the CA patch namely	11.00																																																																																																																																								
16	Kendua	Barhi	2, 14, 26, 149, 190, 192	40.24		39.00																																																																																																																																								
17	Kendua	Barhi	428, 429, 432, 433	46.19	New Road has been constructed in the CA patch	34.70																																																																																																																																								
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		19	Gaira	Barhi	3081	20.00	plantation work carried out recently	
		Total				600.00		337.70
		Proposed Fresh CA Land						
		20	Damdoya	Chatra	1359			5.80
		21	Dahu	Tandwa	1585,1594, 1611, 1472P, 1931P, 1935P, 1936P	-		23.80
		22	Madhuban	Barhi	1019(P)	-		25.00
		23	Lokiya	Barhi	1(P), 421(P), 592(P), 598(P)	-		50.00
		24	Badiyajwar	Barhi	750(P), 751(P), 752(P)	-		38.00
		25	Balori	Barhi	62(P), 63(P), 64(P), 65(P)	-		68.00
		26	Simarkurha	Barhi	409, 412, 413, 414, 415, 419, 421, 423	-		49.00
							Total	259.60
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viii)	Quantitative details of deaths of human and elephants in last five years may be furnished by the State along with details of existing and proposed elephant corridors in the landscape.	In this regard quantitative details of deaths of human and elephants in last five years i.e., 2019-20 to 2023-24 as attached under Hazaribagh West Forest Division. (Details enclosed as Annexure-XIII)						XIII
		There is no notified elephant corridors in Hazaribagh West Forest Division. On the basis of elephant movements, five elephant corridors have been proposed in Hazaribagh West Forest Division. However, the proposed mining project does not have any of these proposed elephant corridors.						
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x)	In case Amrapali OCP is not of the UA then an NOC from the UA of Amrapali OCP shall be submitted.	The User Agency has submitted that both Amrapali OCP and Chandragupta OCP are the projects of Central Coalfields Limited under the administrative control of 'Amrapali & Chandragupt Area'. As such, NOC is not required for Chandragupta OCP from Amrapali OCP.						
xi)	Amrapali OCP boundary is in the west side of the Barki river, the impact of having mining on both the sides of river will require deep understanding of the impact of hydrology of the river,	This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.						

725

	so comments of the State shall be submitted in this regard.		
xii)	A high level bridge over Barki river needs to be constructed to connect the proposed OCP, the location of the bridge and its connectivity should be shown through KML for further DSS analysis.	This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.	
xiii)	Chotki river falling in the proposed site has to be diverted as per the proposal but the site inspection report or the comments of the State is silent on it, specially about its impact on the water security and hydrological cycle downstream.	The User agency has submitted that the Sub Divisional Officer, Waterways Subdivision, Hazaribagh of Govt of Jharkhand has carried out site inspection of Chhotki river and submitted to Executive Engineer, Water Resource Department with the following recommendation. The diversion proposal has further been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NoC.	
xiv)	Since the area has elephant therefore the cases of the Human Elephant conflicts in the district needs to be looked into, for which deaths of human and elephants in the Chatra and Hazaribagh district in last five years to be provided. Loss of property and crop damage and compensation given and pending should also be provided.	Quantitative details of deaths of human and elephants and Loss of property and crop damage and compensation in last five years i.e., 2019-20 to 2023-24 under Hazaribagh West Forest Division (Details enclosed as Annexure-XIII)	XIII
xv)	Recommendation of the CWLW will be needed specially regarding need of wildlife management and mitigation of conflict plan.	The CWLW has given comments regarding need of wildlife Management and mitigation of Man and animal conflict. (Copy enclosed as Annexure I)	I

अतएव वन प्रमंडल पदाधिकारी, हजारीबाग पश्चिमी वन प्रमंडल से प्राप्त निराकरण प्रतिवेदन की 6 प्रति इस पत्र के साथ संलग्न कर भेजते हुए अनुरोध है कि अपने स्तर से यथोचित कार्रवाई करने की कृपा की जाय।

अनु०-यथोक्त।

आपका विश्वासी,

वन संरक्षक
प्रादेशिक अंचल, हजारीबाग
05-02-24

आपका क्षेत्रीय मुख्य वन संरक्षक
हजारीबाग
325
दिनांक 05-02-24



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**कार्यालय – वन प्रमंडल पदाधिकारी,
हजारीबाग पश्चिमी वन प्रमंडल, वन भवन, हजारीबाग**
☎ 06546-222339, Email- dfo.hazaribaghwest@rediffmail.com & dfo-hazaribaghwest@gov.in

पत्रांक: 867

दिनांक: 5/2/24

सेवा में,

वन संरक्षक,
प्रादेशिक अंचल, हजारीबाग।

विषय :- सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत- 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत- 298.42 हे0) वन भूमि अपयोजन (ऑनलाईन प्रस्ताव सं0- PF/JH/MIN/140599/2021) प्रस्ताव के संबंध में।

प्रसंग :- 1. भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, न्यू दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023
2. प्रधान मुख्य वन संरक्षक –सह- कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का पत्रांक 979 दिनांक 03.10.2023 आपका पत्रांक 219 दिनांक 05.02.2024

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र 1 द्वारा 15 बिन्दुओं पर पृच्छा की गई है। उक्त के आलोक में परियोजना पदाधिकारी, चन्द्रगुप्त खुली खदान परियोजना, आम्रपाली चन्द्रगुप्त एरिया, सी0सी0एल0, भी.टी.सी. भवन, होन्हे, टण्डवा ने अपने पत्रांक GM(AC)/PO(Chandragupta)/2023-24/220 दिनांक 18.12.2023 द्वारा बिन्दुवार अनुपालन प्रतिवेदन समर्पित किया गया है। पुनः आपके कार्यालय पत्रांक 219 दिनांक 05.02.2024 द्वारा की गई पृच्छा के आलोक में अनुपालन प्रतिवेदन निम्नवत है-

Con dition No.	Queries raised by GoI	Compliance report	Annex ure				
1	3	5					
i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments may also be furnished on the adequacy of mitigation measures like Site Specific Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.	<p>The applied area is a good habitat of wildlife, the proposed area and its surrounding area also, being a habitat of many wild animals, shall definitely bear some impacts on residing and adjoining wild animals for which a Wildlife Management Plan shall be required," the Asian Elephant, the endangered ones, through do not reside in the proposed areas, they visit these areas every year in search food and fodder and damage the crops, houses etc.,</p> <p>In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal.</p> <p>The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in principle approval.</p> <p>In this regard, the user agency has submitted a certificate of Undertaking. Enclosed as Annexure-III)</p>	I, II & III				
ii)	The authorities in the State Forest Department have recommended preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against	<p>The plans as recommended by State Forest department along with their tentative cost, timeline for preparation and duration of implementation is given as under:-</p> <table border="1"><thead><tr><th>Plans</th><th>Tentative cost (In Rs)</th><th>Timeline for Preparation</th><th>Duration of Implementation</th></tr></thead></table>	Plans	Tentative cost (In Rs)	Timeline for Preparation	Duration of Implementation	
Plans	Tentative cost (In Rs)	Timeline for Preparation	Duration of Implementation				

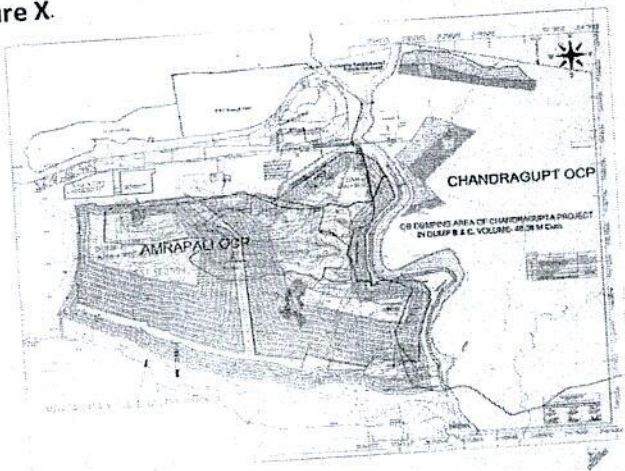
	them, their tentative cost, time required for preparation and duration of implementation, etc. need to be furnished by the State.	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
iii)	In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.	Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	III
		Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
		<p>1. User Agency shall prepared and submit the above mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA account before actual breaking/non-forestry use of the forest land.</p> <p>2. In this regard, the user agency has submitted a certificate of Undertaking. Enclosed as annexure-III)</p>				
iv)	Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.	In this regard User agency has been submitted revised Cost Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06.01.2022. Enclosed as annexure- V				V
v)	Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be submitted along with complete detail of supporting attributes such as afforestation scheme, suitability certificate, KML files, etc.	<p>The user agency has left a patch 7.5m of forest land all along the Coal Block Boundary as proposed Safety Zone. The area of safety zone comes to be 2.9 ha. which is part of 699.38 Ha of forest land diversion proposal. Plantation and subsequent maintenance of the safety zone will be done by the user agency at their own cost.</p> <p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone.</p> <p>The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure VI.</p>				VI
vi)	From the purpose-wise breakup of forest land, the following may be ascertained:					
a)	An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource Department on the feasibility of said proposed diversion	<p>1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River has been prepared by IIT Roorkee. (The DPR enclosed by user agency in the form of CD as Annexure VII)</p> <p>Diversion proposal has been recommended by Chief Engineer</p>				VII & VIII

needs to be informed by the State.	(Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource Department has been enclosed by user agency as Annexure VIII).
b) An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.	This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.
c) A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9 ha of forest land earmarked for safety zone. Rationalize for including green belt area in the project which could otherwise be excluded from the project and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished	<ol style="list-style-type: none"> 1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficulty by the Forest Department. 2) The User Agency has submitted that, in compliance of generic condition of EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease area. This apart, the statutory barriers against surface features like river, nallah, public road etc. are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as barriers is developed and maintained as Green belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks. 3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary. 4) Also the user agency has submitted they have proposed the green belt as part of mitigation measures for dust suppression. <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. Further since this land is not a concentrated land parcel therefore, it is proposed that 55.61 Ha (which includes 36.82 ha green belt proposed earlier + 18.79 Ha. forest land now made available due to shifting of infrastructural activities to non-forest) of land will be managed as green belt by the user agency after getting it demarcated on the ground by means of erecting RCC pillars. The area will be kept and maintained as such and no non-forest activity should be undertaken therein.</p>

d) Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.

- The User Agency has submitted that,
- 1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible.
 - 2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself.
 - 3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP.

Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt OCP is enclosed by User Agency as **Annexure IX** Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as **Annexure X**.



vii Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:

a) Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion

The User Agency has submitted that the roads passing through the forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations. (Correspondence letters enclosed as **Annexure XI**).

XI

b) As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.

This query is related to Chatra South Forest Division, therefore the compliance to be given by Chatra South Forest Division.

- c) Google imagery shows the encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.
- d) An earthen pond created recently in the CA patch namely Mahuari and New Road has been constructed in the CA patch namely Village - Kendua.
- e) Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.

In this regarding A total of 600 ha. of degraded forest land was proposed as CA land under Hazaribagh West Forest Division and Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22.09.2023, the CA sites were physically verified. After verification it was found that 262.30 ha land was not suitable for CA plantation on account of various reasons as mentioned in the table below. A fresh encumbrance free CA land of 259.60 ha has been proposed in Hazaribagh West Forest Division & Chatra South Forest Division. Thus a total of 597.70 (Previous proposed CA land 337.70 ha. under and proposed fresh CA land 259.60 Ha. under Hazaribagh West Forest Division & Chatra South Forest Division) has been proposed against diverted land of 298.42 ha. CA Scheme and Suitability Certificate, KML, DGPS & Topo Maps as enclosed as **Annexure: XII**

Details are given below: -

Details of CA Land						
S. No	Name of the PF/RF	Range	Compartment No	Proposed Area (Ha)	Remarks	After verification area (Ha)
1	Basaria	Barhi	132, 133, 134	15.00	Earthen Dam present	10.00
2	Basaria	Barhi	17,22,23,25, 26,79	41.68	Mined out Area & Plantation work	
3	Basaria	Barhi	170	5.00	Encroachment of Agriculture land in the CA patch namely	
4	Mungarmao	Barhi	100, 107, 110, 113	20.00		19.91
5	Chandgarh	Barhi	131, 133, 134, 139	64.88		64.70
6	Jatghagra	Barhi	80	6.00	Encroachment of Agriculture land in the CA patch namely	
7	Lachudih	Barhi	34, 43, 45	16.75		16.75
8	Gaira	Barhi	3050, 3081	26.00	Plantation work carried out in CA	
9	Lohri	Chatra	32, 33, 34, 35	45.00	Encroachment of Agriculture land in the CA patch	
10	Sinduarikhurd	Chatra	2P, 3P, 4P, 5P	29.65		29.65
11	Unta	Chatra	1P	50.00		49.99
12	Deochanda	Barhi	853, 870, 872, 873	95.24	Encroachment of Agriculture and plantation activities visible	
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Total			600.00	337.70
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Total				259.60
Grand Total				597.30

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भारत सरकार द्वारा की गई आपत्ति का बिन्दुवार निराकरण प्रतिवेदन 7 प्रतियों में सानुलग्नक इस पत्र के साथ संलग्न कर भेजते हुए अनुरोध है कि अपने स्तर से यथोचित कार्रवाई करने की कृपा की जाय।

अनु०-यथोक्त।

आपका विश्वासी,



वन प्रमंडल पदाधिकारी,
हजारीबाग पश्चिमी वन प्रमंडल।

717



कार्यालय : वन प्रमण्डल पदाधिकारी, चतरा दक्षिणी वन प्रमण्डल, चतरा।
वन भवन, चतरा – 825401



E-mail : dfo-chatrasouth@gov.in

Phone : 8987790213

पत्रांक: 166

दिनांक : 22.01.2024

सेवा में,

वन संरक्षक,
प्रादेशिक अंचल, चतरा।

विषय :- सी0सी0एल0 द्वारा चन्द्रगुप्त खुली खदान कोल परियोजना हेतु 699.38 हे0 (चतरा दक्षिणी वन प्रमंडल अन्तर्गत- 400.96 हे0 एवं हजारीबाग पश्चिमी वन प्रमंडल अन्तर्गत- 298.42 हे0) वन भूमि अपयोजन (ऑनलाईन प्रस्ताव सं0- PF/JH/MIN/140599/2021) प्रस्ताव के संबंध में।

प्रसंग :- 1. भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, न्यू दिल्ली का पत्रांक 8-24/2023-FC दिनांक 22.09.2023
2. प्रधान मुख्य वन संरक्षक -सह- कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, राँची का पत्रांक 979 दिनांक 03.10.2023

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र 1 द्वारा 15 बिन्दुओं पर पृच्छा की गई है। उक्त के आलोक में परियोजना पदाधिकारी, चन्द्रगुप्त खुली खदान परियोजना, आम्रपाली चन्द्रगुप्त एरिया, सी0सी0एल0, भी.टी.सी. भवन, होन्हे, टण्डवा ने अपने पत्रांक GM(AC)/PO(Chandragupta)/2023-24/220 दिनांक 18.12.2023 द्वारा बिन्दुवार अनुपालन प्रतिवेदन समर्पित किया गया है। अनुपालन की स्थिति निम्नवत है-

Condition No.	Queries raised by GoI	Compliance report	Annexure
1	3	5	
i)	As Schedule-I species have been reported in the area and DFO also mentioned the fragmentation of wildlife habitat, comments of PCCF (Wildlife) and CWLW Jharkhand on the likely impact of the project on the movement of wildlife in general and elephant in particular needs to be furnished by the State. Further, comments may also be furnished on the adequacy of mitigation measures like Site Specific Wildlife Management Plan or Comprehensive Integrated Wildlife Management proposed for the area.	The applied area is a good habitat of wildlife. Its surrounding area also, being a good habitat of many wild animals, shall definitely bear some impact on wild animals inhabiting the area for which a Wildlife Management Plan shall be required. The Asian Elephant, the endangered one, through do not reside in the proposed area permanently, they visit these areas every year in search food and fodder and damage the crops, houses etc., In order to minimize the impact of the proposed mining operation on the environment, it is considered absolutely necessary to prepare a site-specific wildlife management plan and implement it at the expense of the user agency in order to accept the proposed proposal. The comments on adequacy of mitigation measures shall be made after receipt of such mitigation plans prepared as compliance of in-principle approval. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)	I, II & III

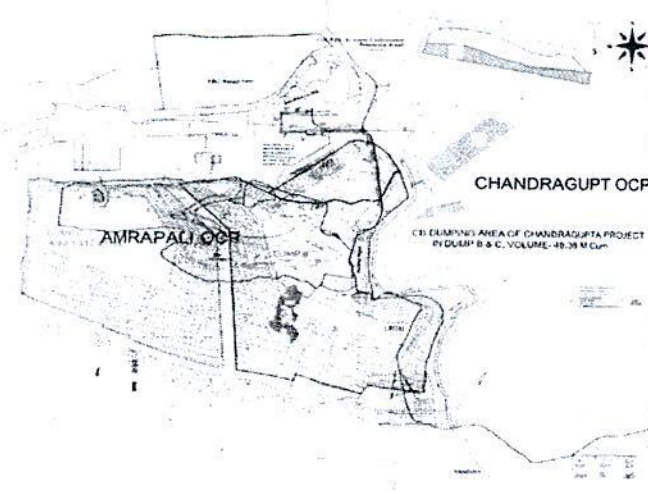
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ii)	<p>The authorities in the State Forest Department have recommended preparation of various Plans and their implementation either before or concurrently with the mining operations. Detail of such plans, in tabular form indicating clearly against them, their tentative cost, time required for preparation and duration of implementation, etc. need to be furnished by the State.</p>	<p>The plans as recommended by State Forest department along with their tentative cost, time required for preparation and duration of implementation is given as under</p> <table border="1" data-bbox="650 347 1403 840"> <thead> <tr> <th>Plans</th> <th>Tentative cost (In Rs)</th> <th>Time required for Preparation</th> <th>Duration of Implementation</th> </tr> </thead> <tbody> <tr> <td>Wildlife Management Plan</td> <td>35-45 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Soil & Moisture Conservation Plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> <tr> <td>Top soil management plan</td> <td>25-35 Crore</td> <td>One month after grant of In-principle approval</td> <td>Over a period of 10 years of operation</td> </tr> </tbody> </table>	Plans	Tentative cost (In Rs)	Time required for Preparation	Duration of Implementation	Wildlife Management Plan	35-45 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Soil & Moisture Conservation Plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	Top soil management plan	25-35 Crore	One month after grant of In-principle approval	Over a period of 10 years of operation	
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iii)	<p>In online Part-II, it has been reported that the proposed forest land is moderately vulnerable to erosion. Therefore, mitigation measures in this regard needs submission.</p>	<p>1. User Agency shall prepare and submit the above-mentioned plans once In-principle approval is granted to them and the actual cost shall be deposited in CAMPA Account before actual breaking/ non-forestry use of the forest land. 2. In this regard, the user agency has submitted a certificate of Undertaking. (Enclosed as annexure-III)</p>	III																
iv)	<p>Cost benefit Ratio has been estimated as 1:81.92 which is exorbitantly high. The analysis may be revisited by the user agency by applying appropriate economic tools to accurately estimate the various parameters and detailed analysis thereof may be submitted to the Ministry.</p>	<p>In this regard User agency has submitted revised Cost-Benefit Analysis in light of guidelines issued by MoEF&CC, GoI in this regard dated 06-01-2022. Enclosed as annexure- V</p>	V																
v)	<p>Detail of safety zone of the mining leases for raising afforestation has not been submitted along with the proposal. Same needs to be submitted along with complete detail of supporting attributes such as afforestation scheme, suitability certificate, KML files, etc.</p>	<p>The User Agency has left a patch of 7.5 m of forest all along the Coal Block boundary as Proposed Safety Zone. The area of safety zone comes to be 2.9 Ha which is part of 699.38 Ha of forest land diversion proposal.</p> <p>Compensatory afforestation plan over double degraded forest land has already been identified for 1400 Ha which also includes CA area against the 2.9 Ha of safety zone.</p> <p>The afforestation scheme of entire 1400 Ha along with suitability certificate, KML file of 1400 Ha CA land (which includes 5.8 Ha CA demarcated separately in Damdoya Village against 2.9 Ha safety</p>	VI																

		zone) and KML file of 2.9 Ha safety zone, are enclosed in the form of CD enclosed by user agency as Annexure VI.																																																													
vi)	From the purpose-wise breakup of forest land, the following may be ascertained:																																																														
a)	An area of 0.14 ha has been proposed for diversion of Nadi/nalla. The status of feasibility reports for said diversion along with comments of Water Resource Department on the feasibility of said proposed diversion needs to be informed by the State.	<p>1) A DPR of Chhotki Stream diversion and straightening of the meander notch of Barki River prepared by IIT Roorkee has been submitted by the User Agency. (The DPR enclosed by user agency in the form of CD as Annexure VII)</p> <p>Diversion proposal has been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NOC. (The recommendation along with comments of Water Resource Department has been enclosed by user agency as Annexure VIII).</p>	VII & VIII																																																												
b)	An area of 13.94 ha of forest land has been proposed for infrastructure while only 2.3 ha only has been proposed in non-forest land. The State Government may therefore assess the legitimacy of site-specificity of various infrastructural components and possibility to shift non-site-specific components to the non-forest land.	<p>As per the advice of MOEFCC, the land-use proposed in the earlier submitted Form-A has been revised by the User Agency with a view to reduce forest land for infrastructural components. The earlier and proposed land-use is given below:</p> <table border="1" data-bbox="590 896 1364 1489"> <thead> <tr> <th rowspan="2">S N</th> <th rowspan="2">Component</th> <th colspan="3">Earlier Land-Use for Infrastructure</th> <th colspan="3">Revised Land-Use for infrastructure</th> <th rowspan="2">% Change in Forest Land</th> </tr> <tr> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> <th>Forest Land</th> <th>Non-Forest Land</th> <th>Total Area (in Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>(3-b)/3</td> </tr> <tr> <td>1</td> <td>CHP</td> <td>9.30</td> <td>5.52</td> <td>14.82</td> <td>4.45</td> <td>3.41</td> <td>7.86</td> <td>- 52 %</td> </tr> <tr> <td>2</td> <td>Infrastructure (Field Workshop, Substation etc)</td> <td>13.94</td> <td>2.30</td> <td>16.24</td> <td>0.00</td> <td>11.56</td> <td>11.56</td> <td>- 100 %</td> </tr> <tr> <td>3</td> <td>Road, bridge, culvert</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>4.38</td> <td>14.20</td> <td>18.58</td> <td>0</td> </tr> <tr> <td></td> <td>Total</td> <td>27.62</td> <td>22.02</td> <td>49.64</td> <td>8.83</td> <td>29.17</td> <td>38.00</td> <td>-68 %</td> </tr> </tbody> </table> <p>The plan is enclosed as Annexure IX.</p>	S N	Component	Earlier Land-Use for Infrastructure			Revised Land-Use for infrastructure			% Change in Forest Land	Forest Land	Non-Forest Land	Total Area (in Ha)	Forest Land	Non-Forest Land	Total Area (in Ha)	1	2	3	4	5	6	7	8	(3-b)/3	1	CHP	9.30	5.52	14.82	4.45	3.41	7.86	- 52 %	2	Infrastructure (Field Workshop, Substation etc)	13.94	2.30	16.24	0.00	11.56	11.56	- 100 %	3	Road, bridge, culvert	4.38	14.20	18.58	4.38	14.20	18.58	0		Total	27.62	22.02	49.64	8.83	29.17	38.00	-68 %	IX
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c)	A total forest land of 36.82 ha of forest land has been proposed for Green belt which is in addition to 2.9 ha of forest land earmarked for safety zone. Rationalize for including green belt area in the project which could otherwise be excluded from the project	<p>1) The location map of the project shows that the proposed project is bounded by Mining (existing as well as proposed) projects on all the four sides, rendering the management of forest patch difficult by the Forest Department.</p> <p>2) The User Agency has submitted that, in compliance of generic condition of the EC approval, belt of width not less than 7.5 mtrs shall be developed all along the mine lease area. This apart, the statutory barriers against surface features like river, nallah, public road etc are to be maintained as per Coal Mines Regulation 2017. As a best practice measure, the area left as</p>																																																													

	<p>and be managed by the Forest Department. Considered view of the State Government in this regard needs to be furnished</p>	<p>barriers is developed and maintained as Green Belt with a view to enhance the plantation cover and decrease the carbon footprint. Such green belts also function as wind breaks.</p> <ol style="list-style-type: none"> 3) The User Agency has submitted that, the area is also required to maintain mine boundary in continuity and to divert entire forest land falling within the project boundary. 4) Also the User Agency has submitted that they have proposed the green belt as part of mitigation measures for dust suppression. <p>It is evident from above that it will be very difficult for State Forest department to manage the intervening parcels of forest land bounded by mining activities and statutory restrictions against surface features. In view of this, it is proposed to maintain these parcels of land as green belt aggregating to 55.61 Ha (which includes 36.82 ha green belt proposed earlier plus 18.79 Ha of Forest land now made available due to shifting of infrastructural activities to non-forest land) as green belt as shown in the revised land use. The forest area earmarked as green belt will be kept and maintained as such, and no non-forestry activity should be undertaken therein.</p>	714
d)	<p>Details of area proposed for dumping of overburden is not available in the purpose-wise breakup. Comments in this regard may be provided by the State Government.</p>	<p>The User Agency has submitted that,</p> <ol style="list-style-type: none"> 1) Chandragupta OCP mine has been planned in a sustainable manner and >95% of OB will be dumped internally so as to minimize the land degradation to the minimum extent possible. 2) Total volume of overburden expected to be generated in Chandragupta OCP is 995.34 Mn cum. Out of this, 946.96 Mn cum (=95%) is proposed as internal dump without affecting any external surface area other than the quarry itself. 3) Only 48.38 Mn cum is proposed to be dumped externally in the nearest adjoining operational mine of Central Coalfields Limited i.e., Amrapali OCP. <p>Integrated Dump plan of Amrapali OCP incorporating 48.38 Mn m³ of Chandragupt.OCP is enclosed by User Agency as Annexure X Copy of Dumping Strategy as per the approved PR of Chandragupt Project and Amrapali project has been enclosed by User Agency as Annexure XI</p>	X & XI

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vii	Analysis of the area proposed for diversion and area proposed for CA area using DSS analysis revealed the following which needs clarification:	A total of 802.05 Ha has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XIV.	XIV
a)	Google imagery shows the presence of Settlements, Roads and Agriculture land etc. within the proposed forest land for diversion	The User Agency has submitted that the roads passing through the Forest area within the coal block will be shifted outside the Coal block boundary along with shifting of village habitat and encroachers at the time of commencement of mining operations.	XII
b)	As per Google imagery, Tandwa Barrage has been constructed after the year 2016 over the Garhi Nadi (River) and part of barrage project is falling in the forest patch which has been proposed for diversion.	<p>The User Agency has submitted that, the barrage is not falling in the forest patch proposed for diversion. The barrage structure is approximately 140 mtrs away from the project boundary. However, a small part of stone pitched embankment is touching the South-Western boundary of the project at an approximate distance of 20 mtrs only.</p> <p>As per the approved Project Report of Chandragupt OCP: "The Southern Boundary has been fixed leaving a barrier of 100 mtr from the southern geological block boundary of Pachra South block." As such, the quarry edge will be 100 mtrs away from the embankment.</p> <p>(Barrage Location Plan is enclosed by User Agency in the form of CD & Hard copy as Annexure XIII)</p>	XIII
c)	Google imagery shows the encroachment of Agriculture land, plantation activities and presence of settlement in CA patches.	A total of 800.00 Ha of degraded forest land was proposed as CA land in Chatra South Forest Division. In light of the observations made by MoEF&CC, GoI vide letter dated 22-09-2023, the CA sites were physically verified. Upon verification of the proposed CA sites, a total of 254.25 Ha of degraded forest land was found unfit for CA plantations due to presence of trees, encroachments, water bodies etc. Rest 545.75 Ha. of degraded forest land was found fit for CA plantations. In this regard encumbrance free alternative fresh CA land	XIV
d)	An earthen pond created recently in the CA patch		

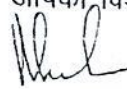
	namely Mahuari and New Road has been constructed in the CA patch namely Village – Kendua.	to the tune of 256.30 Ha (Chatra South: 47.3 Ha & Chatra North: 209 Ha) along with CA Scheme, Suitability Certificate has been made available. Hence, a total of 802.05 Ha (545.25 Ha + 256.30 Ha) has been earmarked for CA. The details of CA land with compensatory afforestation scheme, revised KML files, DGPS & Topo Maps are enclosed as Annexure: XIV.	
e)	Out of total 1400 ha (DSS Calculated) forest land proposed for CA, 31 ha of land is characterized with Moderately Dense Forest.		
viii)	Quantitative details of deaths of human and elephants in last five years may be furnished by the State along with details of existing and proposed elephant corridors in the landscape.	The User Agency has attached quantitative details of deaths of Human and Elephants in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division as Annexure-XV. There is no Notified Elephant Corridors in Chatra South Forest Division. On the basis of elephant movements, three elephant corridors have been proposed in Chatra South forest division. However, the proposed mining project does not fall on any of these proposed elephant corridors.	XV
ix)	External dump is being proposed in 86.16 ha of land in Amrapali OCP, which is not given in the proposal but included in Mining Plan. Therefore, compliance status of Amrapali OCP shall be submitted.	The User Agency has submitted that the external dump of Chandragupta OCP is proposed in an area of 89.16 Ha of land in Amrapali OCP. The approval of Project report enclosed in the form of CD of Amrapali OCP along with approved dumping strategy plan is attached as Annexure XVI for quick perusal. The compliance status of already diverted forest proposal of 531.64 Ha in respect of Amrapali OCP is enclosed Compliance report of Amrapali by User Agency as Annexure XVII)	XVI & XVII
x)	In case Amrapali OCP is not of the UA then an NOC from the UA of Amrapali OCP shall be submitted.	Both Amrapali OCP and Chandragupta OCP are the projects of Central Coalfields Limited under the administrative control of 'Amrapali & Chandragupt Area'. As such, no NOC is required for Chandragupta OCP from Amrapali OCP.	
xi)	Amrapali OCP boundary is in the west side of the Barki River, the impact of having mining on both the sides of river will require deep understanding of the impact of hydrology of the river, so comments of the State shall be submitted in this regard.	CMPDIL, Ranchi has prepared a Report on the Anticipated Impacts of proposed mining on either side of Barki River and its management plan. (Report of CMPDIL is attached by User Agency as Annexure-XVIII). Following are the key findings of the report: 1) There shall not be any obstruction to the flow of Barki River. Mining is proposed by leaving approx. 100 m on Amrapali side and 60 m on Chandragupt side from the HFL of the River. 2) This safety zone will act as a buffer between the natural stream and active mining area, thereby safeguarding the banks of Barki River from erosion, keeping the catchment area for stream assisted by natural channel slope, sustaining the stream flow, and preserving the riverine eco-system. 3) During heavy rainfall conditions, the active mine sumps will act as surge ponds and effectively reduce the peak flow rates in Barki River. Thus, Barki River will not experience any flooding-related problems during heavy rainfall.	XVII I

		<p>Additionally, as part of the study on diversion of Chutki nalla, IIT Roorkee has conducted a study on Barki river also. The study states that Barki has a catchment of 231.50 sq km.</p> <p>The study suggests no risk of flooding on the surrounding landscape. Also any deficit in natural run-off will be compensated by mine discharge and run-off from reclaimed land and hence there will not be any variation in the flow of Barki river.</p> <p>Therefore, it can be ascertained that there will not be any direct impact of proposed mining on the surface hydrology of Barki River.</p> <p>Control measures like toe wall, garland drain, check dams and siltation ponds to arrest siltation, and ETP with oil and grease removal mechanism to treat workshop effluents, will be in place. <i>(The DPR from IIT,ROORKEE is enclosed in the form of CD by User Agency as Annexure VII)</i></p>	
xii)	<p>A high level bridge over Barki river needs to be constructed to connect the proposed OCP, the location of the bridge and its connectivity should be shown through KML for further DSS analysis.</p>	<p>A high-level bridge over Barki river for connectivity with the Chandragupt OCP is proposed by the user Agency. The KML file is attached <i>in the form of CD by User Agency as Annexure XIX)</i></p>	XIX
xiii)	<p>Chotki river falling in the proposed site has to be diverted as per the proposal but the site inspection report or the comments of the State is silent on it, specially about its impact on the water security and hydrological cycle downstream.</p>	<p>The User Agency has submitted that the Sub Divisional Officer, Waterways Subdivision, Hazaribagh of Govt of Jharkhand has carried out site inspection of Chhotki river and submitted report to Executive Engineer, Water Resource Department with comments and recommendation.</p> <p>The diversion proposal has further been recommended by Chief Engineer (Water Resources Department), Jal Bhawan, Ranchi for issuance of NoC.</p>	
xiv)	<p>Since the area has elephant therefore the cases of the Human Elephant conflicts in the district needs to be looked into, for which deaths of human and elephants in the Chatra and Hazaribagh district in last five years to be provided. Loss of property and crop damage and compensation given and pending should also be provided.</p>	<p>Quantitative details of deaths of human and elephants and Loss of property and crop damage and compensation in last five years i.e., 2019-20 to 2023-24 under Chatra South Forest Division (Details enclosed as Annexure-XV)</p>	

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xv)	Recommendation of the CWLW will be needed specially regarding need of wildlife management and mitigation of conflict plan.	The CWLW has given comments regarding need of wildlife Management and mitigation of Man and animal conflict. (Copy enclosed as Annexure I)	I • •
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अतः भारत सरकार द्वारा की गई आपत्ति का बिन्दुवार निराकरण प्रतिवेदन 8 प्रतियों में सानुलग्कन भेजते हुए अनुरोध है कि अपने स्तर से यथोचित कार्रवाई करने की कृपा की जाय।
अनु०-यथोक्त।

आपका विश्वासी,

 30/12/2023
 वन प्रमण्डल पदाधिकारी,
 चतरा दक्षिणी वन प्रमण्डल।