

**Sub: Proposal for diversion of 226.67 hectares of forest land for Karo OCP in favour of M/s. Central Coal Fields Limited (CCL) in Bokaro district of Jharkhand**

**and**

**Diversion of 7.57 ha of forest land for construction of dispatch conveyor of Karo OCP in favour of M/s Central Coal field Limited (CCL) in Bokaro district of Jharkhand.**

1. The Government of Jharkhand vide their letter no. 3/Van-Bhumi-02/2009/451/VP dated 22.02.2009 for **diversion of 226.67 ha** of forest land and letter No. Van Bhumi-33/2016-2284/V.P. dated 30.05.2017 for **diversion of 7.57 ha** of forest land for construction of dispatch conveyor of Karo OCP in favour of M/s Central Coal field Limited (CCL) in Bokaro district of Jharkhand seeking prior approval of the Central Government under Section-2 of the Forest (Conservation) Act, 1980.
2. The proposal for diversion of 226.67 ha of forest was placed before FAC in its meeting held on 04.11.2009, 21.07.2010, 24.11.2015, 15.06.2017 and at last on 25.01.2018.
3. **The FAC in its meeting held on 15.06.2017 observed the following:**
  - i. The purpose wise break up of forest land as provided does not indicate whether the Safety Zone will be maintained within the area proposed for diversion.
  - ii. The Translated copies of the Gram Sabha resolutions were not provided.
  - iii. The CA sites shown to the RO, Ranchi and as proposed by the State Government are different and therefore the CA sites proposed now by the State Government need to be inspected by the RO, Ranchi.
  - iv. **It was also brought to the notice of the FAC that a proposal for conveyor belt has been submitted separately to the RO, Ranchi as a linear project. It may be clarified whether this form integral part of the current proposal.**
4. The FAC after considering the above facts and details recommended that the issues of concern be referred back to the State government and on receipt of the necessary clarification and rectification, the proposal be placed before FAC for its consideration.
5. The recommendation of FAC on 15.06.2017 was communicated to State Government of Jharkhand vide Ministry's letter dated 27.07.2017. The State Government Jharkhand vide their letter No. 3/VAN BHOOMI-02/2009/5008-VP dated 30.11.2017 forwarded the information / documents in response of Ministry's letter dated 27.07.2017 point-wise summery of the information is given as under:-

S. No.	Observations raised by FAC	Reply submitted by State Government				
1	The purpose wise break up of forest land as provided does not indicate whether the Safety Zone will be maintained within the are a proposed for diversion.	It is reported by the State Government that the revised land schedule has been submitted keeping in view to divert safety zone of 5.69 ha in place of 15.61 ha. given earlier which has been forwarded to MoEF vide letter No. 2303 on 13.08.2016. The map showing demarcation of safety zone is being enclose. The current land schedule <b>excluding 77.48 ha.</b> already diverted forest land is given here under:-				
<b>S. No.</b>	<b>Particular</b>	<b>Forest land in Ha.</b>	<b>NFL in Ha.</b>	<b>Total land in Ha.</b>		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1.	Quarry	135.76	2.62	138.38	110.68	249.06
2.	Ext OB Dump	8.10	0.00	8.10	65.51	73.61
3.	Haul Road, CHP, WasherySubstn, WS etc	36.77	0.00	36.77	8.31	45.08
4.	Service Area	40.08	3.34	43.42	17.00	60.42
5.	Safety Zone in Non-Forest Area	0.00	0.00	0.00	15.72	15.72
6.	<b>Total Forest land to be diverted</b>	<b>220.71</b>	<b>5.96</b>	<b>226.67</b>	<b>217.22</b>	<b>443.89</b>
2.	The Translated copies of the Gram Sabha resolutions were not provided.	In this regard it is reported by the State Government that the copy of FORM-II issued vide letter no. 752 date 09.09.2017 by DC Bokaro is enclosed.The translated copy of Gram Sabha resolution has not been submitted.				
3.	The CA sites shown to the RO, Ranchi and as proposed by the State Government are different and therefore the CA sites proposed now by the State Government need to be inspected by the RO, Ranchi.	In this regard it is reported by the State Government that the CA site inspection by RO Ranchi was carried out on 09.08.2017 Inspection Report is attached.				
4.	<u>It was also brought to the notice of the FAC that a proposal for conveyor belt has been submitted separately to the RO, Ranchi as a linear project. It may be clarified whether this form integral part of the current proposal.</u>	In this regard it is reported by the State Government that the user agency has clarified that the project involved the activity of coal mining, coal beneficiation (washery and evacuation of coal). The coal mining and washery involves 226.67 ha. for which is the present proposal. <b>The coal evacuation involves 7.5 ha of land which is different from the two activities of coal mining and beneficiation and hence was applied as a separate proposal.</b> As such although project involves all the three activities of coal mining, beneficiation (washery) and evacuation, the proposals were separated due to different natures of activities. The proposal of 7.5 ha coal Dispatch conveyer of Karo OCP is not the integral part of current proposal of 226.67 ha. The report of CMPDIL is again being enclosed for perusal.				

19. With regard to recommendation of FAC on 15.06.2017 i.e *the CA sites shown to the RO, Ranchi and as proposed by the State Government are different and therefore the CA sites proposed now by the State Government need to be inspected by the RO, Ranchi.* The SIR done by RO Ranchi and submitted. According to SIR the inspection was conducted on 09.08.2017 by DCF, Regional Office, Ranchi in the presence of Sri D.K Srivastava, Range Officer, Bermu Range of Bokaro Forest Division, the User Agency represented by Sri Manoj Kumar, Manager,

Mining, Sri Raj Muni Ram, Project Officer Karo, Sri G.S Prasad, Survey officer were present at the time of inspection. The State Government vide letter no. 3/Van Bhoomi-02/2009-1316 dated 24-3-17 has submitted the CA land details which are as under:

Sl. No.	Name of PF	Plot No.	Area (ha.)
1.	Govindpur	2765, 2496, 2745	30.00
2.	Karma	1751, 1841, 1851, 1865, 1873, 1994, 2010, 2030, 2031	30.00
3.	Dabhadih&Murshulsudi	Dabhadih Plot No- 1, 2, 5, 90, 228, 229, 230, 231 and Murshulsudi Plot No-2	20.00
4.	Kanjkiro (I)	387, 403, 421, 450	50.00
5.	Kanjkiro (II)	3166P, 3167, 3273	50.00
6.	Mungo Rangamati (I)	1, 2, 11, 13, 28, 48, 36	50.00
7.	Mungo Rangamati (II)	69, 138, 80, 84	50.00
8.	Mungo Rangamati (III)	84, 258, 94, 106, 234, 324, 319	50.00
9.	Mungo Rangamati (IV)	931, 1015, 1012, 1006, 308, 295, 1024, 278, 297, 318, 725, 995	50.00
10.	Mungo Rangamati (V)	859,1025,1024	50.00
11.	Mungo Rangamati (VI)	478, 796, 814, 829, 831, 887, 885, 886, 893, 899, 838, 840, 849, 859 ,866,921	50.00
<b>Total</b>			<b>480.00</b>

Total 480 ha of degraded forest land in 11 patches for CA has been identified in Bermu Range of Bokaro Forest Division.

Details of all the patches along with the site inspection remarks are given in tabular form as below:

Sl. No.	CA Land identified	Area (Ha.)	Site inspection remarks
1.	Govindpur	30.00	During the inspection it was noticed that in the plot no. 2496 and 2745, <b>some civil construction were seen.</b> Forest representative informed that the gross area of the entire patch is 38.5 ha and the area required for doing compensatory afforestation is only 30 ha.
2.	Karma	30.00	The entire patch seems to be fit for CA.
3.	Dabhadih& Murshulsudi	20.00	During the inspection it is noticed that some part of the area around 15 ha seems to be <b>Moderately dense forested with density round 0.4 to 0.5</b> and the DSS also ascertained the same.
4.	Kanjkiro (I)	50.00	During the inspection it was noticed some <b>encroachments in the form of agricultural fields were noticed</b> and forest representative informed that during the course of afforestation these encroachments will be removed.
5.	Kanjkiro (II)	50.00	It is in two patches and area seems to be fit.
6.	Mungo Rangamati (I)	50.00	Identified in six patches and the area seems to be fit for CA.
7.	Mungo Rangamati (II)	50.00	Identified in three patches and area seems to be fir for CA.
8.	Mungo Rangamati (III)	50.00	Area seems to be fit for CA and is free from encroachments and other encumbrances.
9.	Mungo Rangamati(IV)	50.00	During the inspection it is noticed that in this patch some area around <b>10 ha seems to be moderately dense forested.</b> However no encroachments noticed.
10.	Mungo Rangamati (V)	50.00	During the inspection it is noticed that in this patch some area around <b>15 ha seems to be moderately dense forest.</b>
11.	Mungo Rangamati (VI)	50.00	During the inspection it is noticed that in this patch some area around <b>20 ha seems to be moderately dense forest.</b> No encroachments noticed.
<b>Total</b>		<b>480.00</b>	

- (i) As per DSS, software calculated CA area around 675 ha of degraded forest land instead of 480 ha.
  - (ii) In two patches encroachments in the form of civil constructions and agricultural fields were noticed. In Govinpur patch in the plot no. 2496 and 2745, some civil construction were seen. Forest representative informed that the gross area of the entire patch is 38.5 ha and the area required for doing compensatory afforestation is only 30 ha. In the patch kainjkaro (i), agricultural fields were noticed and forest representative informed that during the course or afforestation these encroachments will be removed.
  - (iii) As per DSS around 130 ha of the CA area seems to be moderately dense forested especially in the combined Mungo Rangamati patch.
6. The above facts for **diversion of 226.67 ha** of forest land was considered by the Forest Advisory Committee (FAC) in its meeting held on **25.01.2018** and the FAC, after careful consideration of the facts placed before it and the facts placed on website of forest clearance decided to accord in -principle approval with general and standard conditions as below:
- (i) Compensatory afforestation shall be raised over double the diverted forest land diverted and at least 1000 plants per hectare (480 hectares x 1000 = 480000 plants) shall be planted over identified degraded forest land with provision for ten years on subsequent maintenance.
  - (ii) 25% of revised CA cost will be deposited extra by the user agency for soil and moisture conservation (SMC) activities on the CA land.
  - (iii) The user agency should plan such a fashion that the internal dumping starts early which will reduce the actual OB dump area. The mining plan should be modified in that line. The external OB dump should be limited to the non-forest area alone. The user agency also should explore the possibility of dumping the OB from the proposed mine in the already existing voids or voids being created due to mining in other adjacent mines of the user agency.
  - (iv) The Karo OCP is located in the East Bakaro coal fields, where a number of mines of CCL are under operation. Due to the mining the area has been denuded causing environmental problems like dust pollution, damage of trees, etc., which need immediate attention. The user agency should plan for taking up plantation in all the available areas in the East Bokaro coalfields of CCL. The plantation should be done by the CCL under the supervision and advice of the Forest Department. Instead of sectoral green planning, the CCL should go for integrated green planning including soil and moisture conservation measures for the East Bokaro coal fields.
  - (v) The voids available locally within the CCL should be identified and earmarked for deposition of ash generated from the nearby Bokaro TPS.
  - (vi) The user agency should give an undertaking to contribute proportionately for the regional wildlife management plan which is under preparation.
  - (vii) The State Government shall provide the details compensatory afforestation land which has been reported encroached / under agriculture and / civil construction etc. and shall submit to the Regional Office who will inspect and submit the report.
  - (viii) **The recommendation of the FAC will be placed before the competent authority in the Ministry for in-principle approval after the receipt of SIR from regional office and the suitability of CA site is examined by the FC division to its satisfaction.**
7. Accordingly, Ministry vide its letter dated 14.03.2018 (**Pg-718-719/c**) requested the Government of Jharkhand to submit **the details of compensatory afforestation land which has been reported encroached / under agriculture and / civil construction etc. and submit it to the Regional Office, Ranchi who will inspect and submit the report with suitability of CA to this Ministry.**
8. Government of Jharkhand vide their letter No. 3/Van Bhumi-02/2009-3787/ V.P. dated 06.09.2018 (**Pg 732-801/c**) forwarded the letter of the PCCF-cum-Executive Director, Bare land Development Board, Ranchi dated 23.08.2018, and PCCF forwarded the reply given by RCCF, Bokaro vide letter dated 10.08.2018. In response to Ministry's letter dated 14.03.2018, the RCCF, Bokaro in his forwarded letter dated 10.08.2018 (**Pg. 734-735/c**) provided a list of 13 identified protected forest with suitability certificate as below:

Sl. No.	Name of the PF	Gross Area (in ha.)	Net Area (in ha)
1	Kumardaga	55.00	54.00
2	Chonrgoi	6.01	5.00
3	Sijhua	26.18	23.00
4	Chutgadda	84.52	70.00
5	Khetko	74.26	47.00
6	Ulgadda	42.31	17.00
7	Champi	65.58	30.00
8	Dabhadih & Murhulsudi	62.00	32.00
9	Gobindpur	38.46	28.00
10	Kanjkiro	126.34	105.00
11	Karma	78.90	15.00
12	Mugorangamati 01	50.00	28.00
13	Mugorangamati 02	57.82	26.00
	<b>Total</b>	<b>767.38</b>	<b>480.00</b>

9. In response to Ministry's letter dated 14.03.2018, Regional Office, Ranchi vide their letter No. 5-JHA094/2009-BHU/2607 dated 26.09.2018 (Pg-720-731/c) submitted Site Inspection Report of revised CA land. The report is as under:

**COMPENSATORY AFFORESTATION (CA) LANDS SITE INSPECTION REPORT IN RESPECT OF DIVERSION OF 226.67 HA OF FOREST LAND FOR KARO OCP OF M/s CCL.**

This instant proposal was discussed in the Forest Advisory Committee (FAC) meeting held on 25<sup>th</sup> January, 2018. FAC observed that *"the State Government shall provide the details of the compensatory afforestation land which has been reported encroached/under agriculture and /civil construction etc. and shall submit to the Regional Office who will inspect and submit the report"*. Accordingly, the State Government vide letter No.3/Van Bhoomi-02/2009-3787 dated 06-09-2018 has submitted the CA land details and site inspection has been conducted on 13.09.2018 in the presence of Sh P.R.Naidu, DFO Bokaro, User agency represented by Sh Mahendra Kumar Punjabi, Project Manager, Karo OCP, Sh Mohish Maheshwari, Asst Manager, CCL, Sh Animesh kumar, Deputy Surveyor, Karo OCP and other forest field staff.

CA land details submitted by the State Government are as under:

Sl. No.	Name of the PF	No. of patches	Area in hectares
1	Chonrgoi	1	5.00
2	Chutgadda	1	70.00
3	Dabhadih & Murhulsudi	1	32.00
4	Gobindpur	1	28.00
5	Kanjkiro	2	105.00
6	Karma	2	15.00
7	Khetko	1	47.00
8	Champi	3	30.00
9	Kumardaga	1	54.00
10	Sijhua	1	23.00
11	Ulgadda	2	17.00
12	Mugorangamati 01	4	28.00

13	Mugorangamati 02	1	26.00
	<b>Total area in hectares</b>		<b>480.00</b>

Total 480.00 ha of degraded forest land in 13 PF have been identified for CA in Bokaro Forest Division.

**Details of all the patches along with the site inspection remarks are given in tabular form as below:**

Sl. No.	Name of the PF selected for CA	No. of patches	Area in hectares	Remarks
1	Chonrgoi	1	5.00	Fit for plantation and free from encroachment and other encumbrances.
2	Chutgadda	1	70.00	Fit for plantation and free from encroachment and other encumbrances.
3	Dabhadih & Murhulsudi	1	32.00	Fit for plantation and free from encroachment and other encumbrances.
4	Gobindpur	1	28.00	Fit for plantation and free from encroachment and other encumbrances.
5	Knjkiro	2	105.00	Fit for plantation and free from encroachment and other encumbrances.
6	Karma	2	15.00	Fit for plantation and free from encroachment and other encumbrances.
7	Khetko	1	47.00	<b>Some fields observed but during inspection all the fields were left uncultivated and DFO informed that these fields were taken over by Forest Dept.</b>
8	Champi	3	30.00	<b>In patch 1, as per DSS some agricultural fields observed but during inspection all the fields were left uncultivated and DFO informed that these fields were taken over by Forest Dept.</b>
9	Kumardaga	1	54.00	Fit for plantation and free from encroachment and other encumbrances.
10	Sijhua	1	23.00	Fit for plantation and free from encroachment and other encumbrances.
11	Ulgadda	2	17.00	Fit for plantation and free from encroachment and other encumbrances.
12	Mugorangamati 01	4	28.00	Fit for plantation and free from encroachment and other encumbrances.
13	Mugorangamati 02	1	26.00	Fit for plantation and free from encroachment and other encumbrances.
	<b>Total area in hectares</b>		<b>480.00</b>	

**However, as per DSS results of the proposal : CA land in the Diversion of 226.67 hectares of forest land for Karo OPC of CCL are as under:**

Sl. No.	Name of the patch	NON FOREST	OPEN FOREST	MDF	Total
1	Chonrgoi	6	0	0	6
2	Chutgadda	67	4	0	71
3	Dabhadih & Murhulsudi	11	19	3	33
4	Gobindpur	19	9	0	28
5	Kanjkiro	12	46	49	107

6	Karma	16	0	0	16
7	Khetko	32	14	1	47
8	Champi	30	1	0	31
9	Kumardaga	53	2	0	55
10	Sijhua	24	0	0	24
11	Ulgadda	17	0	0	17
12	Mugorangamati 01	23	4	2	29
13	Mugorangamati 02	26	0	0	26
	<b>Total area in hectares</b>	<b>336</b>	<b>99</b>	<b>55</b>	<b>490</b>

Forest Cover Map	Sq Km.	Hectares
MDF	0.55	55
NON FOREST	3.36	336
OPEN FOREST	0.99	99
<b>Total</b>	<b>4.90</b>	<b>490</b>

#### 10. **DSS Report for Revised CA land**

The instant proposal was discussed in the FAC meeting held on 25th January, 2018. FAC observed that the State Government shall provide the details of the compensatory afforestation land which has been reported encroached/under agriculture and civil construction etc and shall submit to the Regional Office who will inspect and submit the report. Accordingly, this Ministry Regional office, Ranchi vide their letter No. 5-JHA094/2009-BHU/2607 dated 26.9.2018 had sent the site inspection report of revised CA land along with CD containing the KML file/ Shape file of revised CA land to this Ministry. The CD containing the Shape file/ KML file of revised CA land is now analyzed by the DSS Cell of FC Division of this Ministry and their major observations are as under:

1. Compensatory afforestation has been proposed over Forest land, twice in extent to the forest land being diverted.
2. CA sites has been proposed thirteen patches in Bokaro district of Jharkhand State and total area of proposed Compensatory afforestation land is found 489.72 ha.
3. As depicted through High resolution satellite imagery the proposed CA sites are affected with encroachment of Agricultural land & Settlements and also in some CA sites plantation activities had already been taken up in the past. The list of encroached CA site is given in Table-I
4. In terms of standards followed in ISFR 2015 (interpretation of satellite data period 2013-2014) regarding density classes is given in Table-1 below:

S.No.	Patch Name	Area (Ha)	VDF	MDF	OF	Non-Forest	Remarks
1	ULGADDA PATCH 02	5	0	0	0	5	Some part of this CA site has encroachment of Agricultural land
2	ULGADDA PATCH 01	13	0	0	0	13	Some part of this CA site has encroachment of Agricultural land & Settlements

3	SIJHUA CA LAND	24	0	0	0	24	As depicted through Google imagery dated 28.9.2014 that Plantation activities had already been done in the past
4	Mugorangamati 2	26	0	0	0	26	This CA site has encroachment of Agricultural land & Settlements
5	Mugorangamati 1D	3	0	0	2	1	
6	Mugorangamati 1C	4	0	0	1	3	Some part of this CA site has encroachment of Agricultural land
7	Mugorangamati 1B	10	0	1	0	9	Some part of this CA site has encroachment of Agricultural land
8	Mugorangamati 1A	13	0	2	1	10	
9	KUMARDAGA CA LAND	55	0	0	2	53	As depicted through Google imagery dated 28.9.2014 that Plantation activities had already been done in the past
10	KHETKO	47	0	1	14	32	Some part of this CA site has encroachment of Agricultural land
11	KARMA-2	8	0	0	0	8	
12	KARMA-1	8	0	0	0	8	
13	Kanjkiro Final	94	0	39	43	12	Some part of this CA site has encroachment of Agricultural land
14	Kanjkiro	13	0	10	3		Some part of this CA site has encroachment of Agricultural land
15	GOBINDPUR	28	0	0	9	19	In a very small area of this CA site has encroachment of Agricultural land & Settlements
16	DABADIH AND MURHULSUDI	33	0	3	19	11	
17	CHUTGADDA	71	0	0	4	67	
18	CHONRGAI CA LAND	6	0	0	0	6	As depicted through Google imagery dated 5.11.2010 that Plantation activities had already been done in the past
19	CHAPPI PATCH 1	9	0	0	0	9	Some part of this CA site has encroachment of Agricultural land
20	CHAPPI PATCH_2	18	0	0	1	17	Some part of this CA site has encroachment of Agricultural land
21	CHAPPI PATCH_3	4	0	0	0	4	
<b>Total 492 Ha area proposed for CA</b>		<b>492</b>	<b>0</b>	<b>56</b>	<b>99</b>	<b>337</b>	

5. **Forest Cover:** Out of total forest area proposed for CA, 56 ha of land is characterized with Moderately dense forest, 99 ha of land is characterized with Open forest, 337 ha. of land as Non Forest (as per the ISFR 2015) based on the interpretation of satellite data period 2013-2014.



11. It has also been decided by the Ministry that the proposal for diversion of 7.5 ha forest land for construction of dispatch conveyer may be dealt at HQ (FC) with main proposal of 226. 67 ha and accordingly the status of said proposal of conveyer was changed from RO, Ranchi to HQ (FC).
12. The facts related to the proposal for diversion of 7.5 ha forest land for construction of dispatch conveyer as contained in the State Government's letter dated 30.05.2017 are given below in the form of fact sheet:

**FACT SHEET**

1.	Name of the Proposal	Diversion of 7.57 ha of forest land for construction of dispatch conveyer of Karo OCP in favour of M/s Central Coal field Limited (CCL) in Bokaro district of Jharkhand.
2.	Location (i) State (ii) District	Jharkhand Bokaro
3.	Details of the user agency	
	Name of the user agency	M/s Central Coalfield Limited – A subsidiary of Coal India Limited
	Nature of the user agency	A Central Government Undertaking
4.	Particulars of Forests: (i) Name of Forest Division and Forest area involved.  (ii) Legal status/Sy.No.  (iii) Map	Bokaro Forest Division, 7.5 ha  5.6 ha Protected forest 1.9 ha Jungle-jhari land.  ---
5.	Topography of the area	-
6.	(i) Geology (ii) Vulnerability to erosion	- The forest area involved is having undulating terrain and runs along the Gati nallah (stream) and I highly vulnerable to soil erosion.
7.	(i) Vegetation  (ii) Density  (iii) No. of trees to be felled	---  <b>0.8 (Eco Class – 3)</b>  1641 nos. of trees
8.	Whether area is significant from wildlife point of view	No
9.	Whether forms part of National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor, etc. (if so, details of the area and comments of the Chief Wildlife Warden	No
10.	Whether any RET species of flora and fauna are found in the area. If so details thereof	No
11.	Approximate distance of the proposed site for diversion from boundary of forest.	0.0 km.
12.	Whether any protected archaeological/ heritage site/defence establishment or any	No

	other important monuments is located in the area.	
13.	Whether any work of in violation of the Forest (Conservation) Act, 1980 has been carried out (Yes/No). If yes details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.	No
14.	Whether the requirement of forest land as proposed by the user agency in col. 2 of Part-I is unavoidable and barest minimum for the project, if no recommended area item-wise with details of alternatives examined.	Yes
15.	Whether clearance under the Environment (protection) Act, 1986 is required?	Yes, <b>Not given</b>
16.	<b>Compensatory Afforestation</b>	
	(i) Details of non-forest area/degraded forest area identified for CA, its distance from adjoining forest, number of patches, size of each patches.	The work schedule for CA scheme is given.
	(ii) Map showing non-forest/degraded forest area identified for CA and adjoining forest boundaries.	Given
	(iii) Detailed CA scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	Not given
	(iv) Total financial outlay for CA	Rs. 483.73655 Lakhs
	(v) Certificate from the competent authority regarding suitability of the area identified for CA and from management point of view.	As per certificate given by DFO Bokaro, the area identified for CA is suitable and fit from management point of view. <b>However, in the suitability certificate, the CA area is free from encumbrance is not given.</b>
17.	Catchment Area Treatment	--
18.	Rehabilitation of Oustees a) No of families involved b) Category of families c) Details of rehabilitation plan	No -- --
19.	Compliance of Scheduled Tribe and Other Traditional Forest	Given

	Dwellers (Recognition of Forest Rights) Act, 2006	
20.	Cost Benefit Ratio	<b>Not Given</b>
21.	Total Cost of the Project	95.00 lakhs
22.	<b>Total period for which the forest land is proposed to be diverted (in years)</b>	<b>30 years</b>
23.	Employment likely to be generated a) Whether the project is likely to generate employment b) Permanent/ Regular Employment (Number of person) c) Temporary Employment (Number of person-days)	Yes  22  5000
24.	Recommendation i. DFO ii. CCF iii. Nodal Officer iv SG	Recommended Recommended Recommended Recommended
25.	District Profile (i) Total Geographical area of the district (ii) Total Forest area/Divisional Forest area (iii) Total area diverted since 1980  (iv) Total CA stipulated since 1980 a. Forest land including penal CA b. Non Forest Land.  (v) Progress of Compensatory Afforestation a. Forest land b. Non Forest land	286100 ha  54393 ha  1336.874 Ha. (No. of cases-29)  3533.3 Ha       2780.06  --

### **Summary of DSS Analysis Report:**

#### **I. In Case of Land proposed for Diversion:**

1. Proposed forest area for diversion falls under Bokaro district of Jharkhand State.
2. Calculated area of Shape file/ KML file of Forest land proposed for diversion is found 7.49 ha.
3. There is no wildlife sanctuary/ National park/ Tiger reserve/ Tiger corridor/ conservation zone is located within 10 Km distance from the proposed irrigation project.

4. The Forest area applied for diversion falls under Not-inviolate Zone based on DSS Decision Rule-1 & Rule-2
5. Forest Cover: Out of total forest area proposed for diversion, 5 ha of land is characterized with Open forest and 2 ha. of land as Non Forest in terms of forest classes (as per the ISFR 2015) based on the interpretation of satellite data period 2013-2014.
6. Forest Types details: 5B/C2 Northern Dry Mixed Deciduous Forest: 6 ha & Non-Forest: 2 ha.

## II. In Case of Compensatory Afforestation Land:

1. Compensatory afforestation has been proposed over Forest land, twice in extant to the forest land being diverted.
2. CA sites has been proposed eight patches under the Bokaro district of Jharkhand State and total area of proposed Compensatory afforestation land is found 18.878 ha.
3. As depicted through High resolution satellite imagery the proposed CA sites are affected with encroachment of Agricultural land. The list of encroached CA site is given in Table-I
4. In terms of standards followed in ISFR 2015 (interpretation of satellite data period 2013-2014) regarding density classes is given in Table-1 below:

**Table No.1**

S.No.	Village Name	Plot Details	Area (Ha)	VDF	MDF	OF	Scrub	NF	Remarks
1	Dumarjor	Plot 1012 &934	2	0	0	0	0	2	some part of this CA site has encroachment of Agricultural land
2		Plot 934	1	0	0	0	0	1	
3		Plot 791	1	0	0	0	0	1	
4		Plot 1017	1	0	0	0	0	1	This CA site has encroachment of Agricultural land
5		Plot 757	1	0	0	0	0	1	
6		Plot 1270	2	0	0	0	0	2	This CA site has encroachment of Agricultural land
7		Plot 806,757&824	4	0	0	0	0	4	This CA site has encroachment of Agricultural land
8	Pupunki	Plot No.1231&5917	8	0	0	0	0	8	This CA site has encroachment of Agricultural land
<b>Total 20 Ha area proposed for CA</b>			<b>20</b>					<b>20</b>	

5. Forest Cover: Out of total forest area proposed for CA, 20 ha of land is characterized with Non Forest in terms of forest classes (as per the ISFR 2015) based on the interpretation of satellite data period 2013-2014.

In view of above, the facts related to the proposals for diversion of forest land of **226.67 ha** for open cast mining and **7.5 ha** for dispatch conveyor in favour of M/s Central Coal field Limited (CCL) may be placed before FAC in its next meeting scheduled to be held on 26<sup>th</sup> October, 2018 for their examination and appropriate recommendation.

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