



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

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Memo No. 3299 /Mining- 08/2022
Dated, Keonjhar, the 06-04-2023

To

The Regional Chief Conservator of Forests,
Rourkela Circle, Rourkela.

Sub: Proposal for permission over 3.96 ha (diversion of 0.970 Ha. + re-diversion of 2.990 ha) forest land for laying of water pipeline from Kandara to Nuagaon Iron Ore Mines of M/s JSW Utkal Steel Ltd in Keonjhar District, Odisha.
(Proposal No. FP/OR/Pipeline/149104/2021, State Sl. No. OR-044/2022 on dated 06.06.2022).

Ref: Memo No. 6433 dt. 31.03.2023 of Deputy Conservator of Forests (Nodal), O/o the PCCF & HoFF, Odisha, Bhubaneswar.

With reference to the aforementioned memo on the captioned subject, as per the Working Plan prescription the Eco Value Class has been treated as "**Eco Value Class- I**" based on the forest type **3C/C2e(iii) Moist Peninsular Valley Sal**. The canopy density of the prevailing forest growth varies from 0.2 to 0.8. Pure patches of Sal along with miscellaneous Sal associates occurs in Sidhamath & Thakurani Reserved Forest. The prevalence of pole crop to middle aged Sal crop in this area indicates the shifting cultivation in the past and the crop can therefore be considered to be secondary origin. The average canopy density of the instant forest area to be diverted is found to be **0.5**. The revised Site Inspection Report & Part-II is enclosed herewith & inclusion in the DRP. This is for favour of your kind information and necessary action.


06/04/23
**Divisional Forest Officer,
Keonjhar Division.**

Memo No. 3300 / Dated. 06-04-2023

Copy forwarded to the Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the PCCF & HoFF, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to his memo No. 6434 dt. 31.03.2023.


06/04/23
**Divisional Forest Officer,
Keonjhar Division.**

PART-II (Revised)

(To be filled by the concerned Deputy Conservator of Forests)

7. Location of the Project/Scheme.

i. State/Union Territory.	Odisha.								
ii. District.	Keonjhar								
iii. Forest Division.	Keonjhar Forest Division.								
iv. Area of Forest land proposed for diversion (in ha.)	The proposal for permission over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) forest land. The detailed pattern of utilization in respect of applied forest land is produced hereunder-								
	Sl	Purpose of Utilization	Area in Hectares						
			Reserve Forest	Revenue Forest	DLC Forest	Sabik Forest	Total Forest	Non-Forest	Grand Total
	Diversion								
	1	Width of the Pipeline	0.000	0.002	0.462	0.169	0.633	1.287	1.920
	2	Control Room	0.000	0.000	0.116	0.169	0.285	0.000	0.285
	3	Approach Bridge from Control Room to Intake well	0.000	0.000	0.040	0.012	0.052	0.033	0.085
		Sub-Total	0.000	0.002	0.618	0.350	0.970	1.320	2.290
	Re-Diversion								
	1	ROW of NHAI	1.733	0.292	0.000	0.965	2.990	3.816	6.806
		Grand Total	1.733	0.294	0.618	1.315	3.960	5.136	9.096
v. Legal status of Forest.			Reserve Forest				1.733 ha		
			Revenue Forest				0.294 ha		
			DLC Forest				0.618 ha		
			<u>Sabik Forest</u>				<u>1.315 ha</u>		
			Total				3.960 ha		
vi. Density of vegetation.	The Eco Value Class has been treated as "Eco Value Class- I" based on the forest type 3C/C2e(iii) Moist Peninsular Valley Sal. The canopy density of the prevailing forest growth varies from 0.2 to 0.8. Pure patches of Sal along with miscellaneous Sal associates occurs in Sidhamath & Thakurani Reserved Forest. The prevalence of pole crop to middle aged Sal crop in this area indicates the shifting cultivation in the past and the crop can therefore be considered to be secondary origin. The average canopy density of the instant forest area to be diverted is found to be 0.5 .								
vii. Species wise (Scientific names) and diameter class wise enumeration of trees (to be enclosed). In case of irrigation/ hydel projects enumeration at FRL, FRL-2 mtr and FRL-4 meter also to be enclosed.	There are 214 Nos. of sound trees and 17 Nos. of unsound trees (total Nos. 231) standing in the forest land proposed for diversion of 3.96 ha. There are 92 Nos. of sound trees and 10 Nos. of unsound trees (total Nos. 102) standing in the non-forest land over 5.136 ha. The species wise and diameter class wise abstract of total enumerated trees is enclosed in Check List Number- 9 as Annexure- 12 & 13 respectively.								
viii. Brief note on vulnerability of	The applied area does not form part of any National Park, Wildlife Sanctuary,								

<p>the Forest Area to erosion.</p>	<p>Biosphere Reserve, Tiger Reserve, Elephant Corridor etc. The Elephant corridor namely Karo-Karpada is situated around 8.31 KM from the proposed forest area. Nonetheless, this site falls under elephant habitat zone- 2 as per the book titled Remote Sensing Application for characterization of elephant habitat and corridor in Odisha and parts of Bihar published by ORSAC in September, 1999. It is prone to erosion if pruned or felled.</p>
<p>ix. Approximate distance of proposed site from diversion from boundary of forest.</p>	<p>The approximate distance of proposed site from diversion from boundary of forest is 0 KM.</p>
<p>x. Whether forms part of National Park, Wild Life Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor etc. (If so, the details of the area and comments of the Chief Wild Life Warden to be annexed.</p>	<p>The applied area does not form part of any National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor etc. Nonetheless, this site falls under Elephant habitat zone- 2 as per the book titled “Remote Sensing Application for characterization of elephant habitat and corridor in Odisha and parts of Bihar” published by ORSAC in September, 1999.</p>
<p>xi. Whether any rare/ endangered/ unique species of flora and fauna in the area, if so details thereof.</p>	<p>There are no rare/ unique species of flora and fauna in the area applied for diversion. However endangered fauna like Elephants are often noticed in the forest area applied for diversion.</p>
<p>xii. Whether any protected archeological/ heritage site/ defense establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.</p>	<p>No protected archeological / heritage site / defense establishment or any other important monument is located in the area. At Elephant crossing points digging and laying of pipeline should be parallel and be done in consultation with local Range Officer. In this regards the User Agency has submitted an undertaking which is enclosed as Annexure- 15. The User Agency has obtained necessary permission from Railway Department for lying of water Pipeline near Joda over bridge which is enclosed as Annexure- 18. The User Agency also obtained written permission from M/s Narbheram Power & Steel Pvt. Ltd over forest land proposed to be diverted for construction of approach Road which is enclosed as Annexure- 19.</p>
<p>8. 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</p>	<p>The proposal for permission over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) forest land is unavoidable and barest minimum required for the project.</p>

wise with alternatives examined.	
9. Whether any work in violation of the Act 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 violation has been observed in respect of the forest land, involved in the instant diversion proposal, the proposal for permission over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) forest land for laying of water pipeline from Kandara to Nuagaon Iron Ore Mines of M/s JSW Utkal Steel Ltd in Keonjhar District, Odisha.
10. Details of Compensatory Afforestation Scheme. i. Details of non-forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.	Compensatory Afforestation is not required since the instant proposal is below 1.00 Ha of forest land. Therefore, in the light of para 2.6(i)(b) as per the new guideline 2019 issued under F C Act. The User Agency is required to plant 10 times nos of trees likely to be felled by way of CA or the nos of trees to be specified in the approval to be accorded in the F C Act 1980. The User Agency has submitted an undertaking to this effect vide Annexure- 17 .
ii. Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries.	Not applicable
iii. Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure etc.	Not applicable
iv. Total financial outlay for compensatory afforestation scheme	Not applicable
v. Certificate from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view.(To be signed by the	Not applicable

concerned Deputy Conservator of Forests).		
11. Site Inspection report of the D.C.F. (to be enclosed) especially highlighting facts asked in col.7 (xi,xii), 8 and 9 above.	Site Inspection report of the Deputy Conservator of Forests, Keonjhar Division is enclosed in Check List Number- 5 as Annexure – 21.	
12.Division/District Profile.	830300.000 Ha.	
i) Geographical area of the district.		
ii) Forest area of the district.	336615.6293 Ha.	
iii) Total Forest area diverted since 1980 with numbers.	14597.9759 ha (120 Nos.)	
iv.Total compensatory afforestation stipulated in the District/Division since 1980 on		
(a) Forest land including Penal compensatory afforestation.	C.A. 2107.3543 ha. P.C.A., A.C.A- 7545.6046 ha	
(b) Non-forest land.	C.A- 9465.8399 ha.	
v. Progress of Compensatory afforestation as on (date)		
(a) Forest land	C.A. 1152.58 ha. P.C.A. <u>2996.34 ha.</u>	
(b) Non-forest land.	C.A 5983.9016 ha.	
13. Specific recommendation of the D.C.F. for acceptance or other wise of the proposal with reasons.	The submitted diversion proposal over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) of Forest land is forwarded herewith for approval as per provision under section -2(ii) of Forest (Conservation) Act, 1980.	

Date :
Place. Keonjhar

Signature. 
06/04/23
Name: **Sri Dhanraj H.D, IFS**
Official Seal.

CHECK LIST NUMBER- 5
SITE INSPECTION REPORT (Revised)

1.	Name of the Project.	Proposal for permission over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) forest land for laying of water pipeline from Kandara to Nuagaon Iron Ore Mines of M/s JSW Utkal Steel Ltd in Keonjhar District, Odisha
2.	Name of District/ Division.	Keonjhar/ Keonjhar Forest Division.
3.	Date of Inspection.	06.12.2022 & 02.03.2023
4.	Name and designation of Inspecting Officer.	Dhanaraj H.D, I.F.S. Divisional Forest Officer, Keonjhar Division.
5.	Name and designation of the Officers who attended the Inspection including representative of user agency.	Sri Ranjan Kumar Pani, Deputy Range Officer, Barbil Range. Sri Saran Barik, Forester Barbil Section Smt. Debajani Mahanta, Forest Guard, Barbil Beat. Sri Akshay Mohanty, Forester Guali Section Sri Dolagobinda Deo, Forest Guard, Guali Beat Representative of the User Agency of JSW Utkal Steel Ltd. 1. Gyana Ranjan Kar, General Manager 2. Binaya Kumar Sahoo, Dy. Manager 3. Pratap Tandia, Sr. Manager 4. Jiten Ku Sahoo, Manager
6.	Legal Status of the Forest land with area Proposed for diversion	Permission over 3.96 ha (diversion of 0.970 ha. + re-diversion of 2.990 ha) forest land. Diversion of 0.970 ha forest land involves Revenue Forest- 0.002 ha, DLC Forest- 0.618 ha & Sabik Forest- 0.350 ha. Re-diversion of 2.990 ha forest land involves Reserve Forest- 1.733 ha, Revenue Forest- 0.292 ha & Sabik Forest- 0.965 ha.
7.	If area required for diversion has been demarcated on the ground.	Yes

8. Item wise break up of forest land proposed for diversion.

Sl	Purpose of Utilization	Area in Hectares						
		Reserve Forest	Revenue Forest	DLC Forest	Sabik Forest	Total Forest	Non-Forest	Grand Total
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1	Width of the Pipeline	0.000	0.002	0.462	0.169	0.633	1.287	1.920
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Sub-Total		0.000	0.002	0.618	0.350	0.970	1.320	2.290

Re-Diversion

1	ROW of NHAI	1.733	0.292	0.000	0.965	2.990	3.816	6.806
Grand Total		1.733	0.294	0.618	1.315	3.960	5.136	9.096
9	Condition of Vegetation and type of forest in the applied area.	<p>The prevailing vegetation in the forest land proposed for diversion includes Sal and Sal associates. The geological formation of this area is quite suitable for growth of Sal. Sal constitutes around 70 to 75% of the top canopy.</p> <p>As per tree enumeration list the floral species found are viz <i>Tectona grandis</i>, <i>Gmelina arborea</i>, <i>Shorea robusta</i>, <i>Mangifera indica</i>, <i>Terminalia tomentosa</i>, <i>Syzygium cumini</i>, <i>Bridelia retusa</i>, <i>Diospyros melanoxylon</i> & Misc Species are exist in the applied forest land.</p> <p>The Eco Value Class has been treated as “Eco Value Class - I” based on the forest type 3C/C2e(iii) Moist Peninsular Valley Sal. The canopy density of the prevailing forest growth varies from 0.2 to 0.8. Pure patches of Sal along with miscellaneous Sal associates occurs in Sidhamath & Thakurani Reserved Forest. The prevalence of pole crop to middle aged Sal crop in this area indicates the shifting cultivation in the past and the crop can therefore be considered to be secondary origin. The average canopy density of the instant forest area to be diverted is found to be 0.5.</p>						
10	Position of Wildlife	Sidhamath & Thakurani Reserved Forest is the dwelling habitat for Elephant, Leopard, Bear, Barking Deer, Hyena, Porcupine and etc. wild elephants, often, visit Sidhamath & Thakurani Reserved Forest and the adjoining Forest Blocks.						
11	Whether the applied area involves any Eco-Sensitive Zone / National Park / Sanctuary.	The applied area does not involve any Eco-Sensitive Zone / National Park / Sanctuary.						
12	No. of trees to be felled and its impact on the eco-system.	There are 214 Nos. of sound trees and 17 Nos. of unsound trees (total Nos. 231) standing in the forest land proposed for diversion of 3.96 ha. There are 92 Nos. of sound trees and 10 Nos. of unsound trees (total Nos. 102) standing in the non-forest land over 5.136 ha. The species wise and diameter class wise abstract of total enumerated trees is enclosed as Annexure- 12 & 13 respectively.						
13	Details of broken up land and reclamation done if any.	The proposed water pipeline project is envisaged to be aligned along the existing road within the forest land connecting the water pipeline from Kandara to Nuagaon Iron Ore Mines of M/s JSW Utkal Steel Ltd in Keonjhar District, Odisha. However, the User Agency is required to make good the land after use and make good any loss to forest/environment.						
14	Position of displacement of people and adequacy of rehabilitation, if any.	Not applicable						

15	Position of rare and endangered species available and importance of the applied area from archeological point of view.	No rare or endangered species is available in the applied diversion area, but elephant movement is often noticed in the area. The proposed structure will not have any significant impact on wildlife being underground pipeline and temporary breaking of land for the same. There is no archaeologically important monument situated in the area.
16	Non-forest land selected for Compensatory afforestation has been included in the D.L.C. report or not.	Not applicable
17	Suitability of the identified non-forest land/ degraded Forestland for Compensatory afforestation.	Not applicable
18	Violation of Forest (Conservation) Act, 1980 if any and action taken thereon.	No violation has been observed in respect of the forest land proposed for diversion under FC Act, 1980 for laying of water pipeline from Kandara to Nuagaon Iron Ore Mines of M/s JSW Utkal Steel Ltd.

Date:
Place: Keonjhar


Divisional Forest Officer,
Keonjhar Division