

PART-II

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

State serial No. of proposal : JH-15/2020

7. Location of the project/Scheme: **JHARKHAND**

- i. State/Union Territory : **JHARKHAND**
- ii. District: **Hazaribagh**
- iii. Forest Division: **Hazaribag East**
- iv. Area of forest land proposed for diversion (in ha.) : **3.561**
- v. Legal Status of Forest

S. No.	Division	Forest Land(ha.)	Legal Status
1	Hazaribagh East	1.538	Protected Forest
2	Hazaribagh East	2.023	jungle-jhari land
Total		3.561	

vi. Density of vegetation

S. No.	Area(in ha.)	Density	Eco-Class
1	3.561	0.2	Eco 3
Total.	3.561		

- 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 meter & FRL-4 meter also to be enclosed. : **Attached as annexure-1**
- viii. Brief note on vulnerability of the forest area to erosion.
Almost the entire area had gentle slope with some portion being moderately sloping. At places, the soil erosion becomes severe with rill and gully erosion being easily seen.
- ix. Approximate distance of proposed site for diversion from boundary of forest. :
0.00 km
- x. Whether forms part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed) : **Yes (Attached as annexure-2)**
 1. The entire area is part of migratory route of wild elephants with the most recent migration being in January – February, 2022. This observation was further reiterated during the interaction with local villagers. As such, a site-specific

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wildlife management plan will be needed to address human-elephant interface issues.

2. In the said project, there is a habitat of small wild animals like Python, Barking Deer, Jackal, Peafowl/Peacock etc. There is strong likelihood of major adverse impact on them as per the nature of the project.

- xi. Whether any rare/endangered/unique species of flora and fauna found in the area-if so. Details thereof. **No**
- xii. Whether any protected archaeological/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. : **No**
8. Whether the requirement of forest land and 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**
9. Whether any work in violation of the Act has been carried out (Yes/No). If yes, details of same including period of work done, action taken on erring officials. Whether work in violation is still in progress. : **No**
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.

Patch Wise Details						
S.no	Patch No.	Area(ha.)	Name of PF/RF	Range	Compartment No	Uploaded KML file of patch
NIL						

- ii. Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries. : **No**
- iii. Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc. : **No**
- iv. Total financial outlay for compensatory afforestation scheme. : **No**
- v. Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests) : **No**.
11. Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7(xi, xii), 8 and 9 above. : **Attached as annexure-3**

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12. Division/District Profile:

- i. Geographical area of the district.: **599800.00 ha.**
- ii. Forest area of the district. : **208800 ha.**
- iii. Total forest area diverted since 1980 with number of cases. : **17 No.**
- iv. Total Compensatory afforestation stipulated in the district/division since 1980 on
 - (a) forest land including penal compensatory afforestation.: **Nil**
 - (b) non-forest land. : **Nil**
- v. Progress of compensatory afforestation as on (date) **17.05.2022** on
 - (a) forest land : **1236.20 ha.**
 - (b) non-forest land. : **Nil**

13. Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons. : **Attached as annexure-4**

Sourav Chandra
Signature
17-05-2022

Name: SOURAV CHANDRA, I.F.S


Date: -17.05.2022

Place: - Hazaribag

Official Seal
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For Hazaribagh Urban Water Supply Scheme											
Overall Summary of Trees at all projected sites under Environment Forest & Climate Control											
Department Hazaribagh (East) Division.											
Sl.No.	Name of the tree	Scientific Name	0-30 cm	31-60 cm	61-90 cm	91-120 cm	121-150 cm	Above 151 cm	Trees below 7 inches (17.5 cm)	Trees above 7 inches (17.5 cm)	Total Trees
1	Chatwan	<i>Alstonia scholaris</i>	1	16	7	0	0	0	0	24	24
2	Eucalyptus	<i>Eucalyptus globulus</i>	0	0	0	0	0	1	0	1	1
3	Karanj	<i>Millettia pinnata</i>	0	1	0	0	0	0	0	1	1
4	Mahua	<i>Madhucalonifolia</i>	0	0	0	1	1	11	0	13	13
5	Sagwan	<i>Tectona grandis</i>	3	7	0	0	0	0	1	9	10
6	Sakhua	<i>Shorea robusta</i>	0	0	0	0	0	4	0	4	4
7	Chukar	<i>Alectoris Chukar</i>	1	0	6	1	0	0	0	8	8
8	Bamboo jhari	<i>Bambusoideae</i>	1	0	0	0	0	0	1	0	1
9	Acacia	<i>Acacia Auriculiformis</i>	0	0	1	0	0	0	0	1	1
		Total=	6	24	14	2	1	16	2	61	63


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AMARENDRA KUMAR
 Project Director (Administration)
 Jharkhand Urban Infrastructure
 Development Company Limited
 Ranchi (Jharkhand)

WLW Report

(Proposal Name – Hazaribagh Urban Water Supply Scheme)

1. The entire area is part of migratory route of wild elephants with the most recent migration being in January – February, 2022. This observation was further reiterated during the interaction with local villagers. As such, a site-specific wildlife management plan will be needed to address human-elephant interface issues.
2. In the said project, there is a habitat of small wild animals like Python, Barking Deer, Jackal, Peafowl/Peacock etc. There is strong likelihood of major adverse impact on them as per the nature of the project.
3. The proposed project is located at a close distance from the populated area.


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Site Inspection Report

Date of Inspection – **04.09.2021 and 29.04.2022**

Name of Proposal – **Hazaribagh Urban Water Supply Scheme**

Presence – Forest officials

- (1) Sri Sourav Chandra, DFO, Hazaribagh East Forest Division .
- (2) Sri Bijay Kumar, RFO, Daru Range.
- (3) Sri Suresh Ram, RFO, Bagodar Range.
- (4) Sri Ramnandan Ram, BO, Canary East Beat.
- (5) Sri Bhuneshwar Mandal, I/C BO, Bishnugarh Beat.
- (6) Sri Sanjeet Kumar, I/C BO, Tatijharia Beat.
- (7) Sri Dinesh Kumar Pandey, SBO

User Agency officials

- (1) Sri Vinay Kumar, Project Manager, JUDCO
- (2) Sri Pranav Kumar, Assistant Manager, JUDCO

On the aforementioned date, the proposed forest land for diversion was visited. The total forest land proposed for diversion is 3.561 ha. which is meant for Hazaribagh Urban Water Supply Scheme by JUDCO. The details are given below: -

Sl. No.	Name of Village	Thana No.	Area (in ha.)	Type of land
1.	Banaso	Bishnugarh-203	0.607	Notified/demarcated forest land
2.	Chalanga	Bishnugarh-242	0.9308	Notified/demarcated forest land
3.	Manjhlikarbe	Sadar Hzb-174	2.023	Jungle Jhari

As stated by the U/A, the proposed forest land for diversion is part of Hazaribagh Urban water supply scheme. The details of purpose wise breakup is given as below:-

Sl. No.	Location	Components	Area (in ha.)
1	Banaso, Bishnugarh	Pre Settling Tan-1	0.607 ha.
2	Chalanga, Bishnugarh	Storage Tank-1	0.9308 ha.
3	Manjhali Karbe, Sadar Hazaribagh	Water Treatment Plant	2.023 ha.
Total:-			3.561 ha.

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The alternatives suggested by U/A pass through the densely populated raiyati areas. As such, it was not deemed fit for above-mentioned Proposal.

Thereafter, the trees in the enumeration list were checked on site inspection. The species and its girth were matched. It was found to be correct.

The total proposed area has the presence of a variety of trees. It consisted of mainly *Eucalyptus* with Karanj, Mahua, Sagwan, Sal, Bamboo, Acacia etc. At places, the undergrowth of *Clerodendron* sp. and *Cassia tora* were also seen. The crop density was observed as 0.2 at Banaso while it was 0.1 at Chalanga and Manjhlikarbe. The important observation was about the heavy infestation of *Lantana camara* in the proposed area as well as surrounding forest areas at many places.

Almost the entire area had gentle slope with some portion being moderately sloping. At places, the soil erosion becomes severe with eroded topography rill and gully erosion was being easily seen.

The entire area is part of migratory route of wild elephants with almost regular visits of the proposed area. The most recent migration of wild elephants was witnessed in the month of January-February 2022 only. This observation was further reiterated during the interaction with local villagers. As such, a site-specific wildlife management plan will be needed to address human-elephant interface issues.

Although no rare/endangered/unique species of flora and fauna was observed, the commonly found fauna are as following: -

Sl. No.	Hindi or Local Name	English Name	Scientific Name	Schedule according to Wild life Protection Act- 1972
1	2	3	4	5
1.	Ajgara	Python	<i>Python sp</i>	Sch-I Part II
2.	Siyar	Jackal	<i>Canis aureus</i>	Sch-I
3.	Mayur/Mor	Peafowl/Peacock	<i>Pavo Cristatus</i>	Sch-I
4.	Kotra	Barking deer	<i>Muntiacus sp.</i>	Sch-III Section II

The nature of the project is such that there is going to be habitat fragmentation. As such, suitable mitigation measures will be prominently needed to address the same.

Apart from the above, the forest area did not have any archeological/heritage site/defense establishment etc.

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Overall, the proposal is mainly concerned with Hazaribagh Urban Water Supply Scheme. This proposal will provide the basic needed potable water for the residents of Hazaribagh district. Considering the above details, it was found that the forest land proposed for diversion was unavoidable and barest minimum of the project.

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7-05-2022
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Recommendation

(Proposal Name – Hazaribagh Urban Water Supply Scheme)

1. The area proposed for diversion is part of Hazaribagh Urban drinking Water Supply Scheme for Hazaribagh district. Hence, the issues emerging out of the present proposal does have significant impact on the local flora and wildlife.

It is noteworthy to mention that the areas proposed for diversion has seen the frequent movement of wild elephant int past. During these movement, there are several instances of damage caused to the life and property.

Therefore, for avoiding any negative human-wild animal interface a detailed wildlife management plan with adequate mitigation measures has to be included.

2. At various places, *Lantana camara* infestation was noticed during the site visit. Hence, a *Lantana* removal scheme need to be included for 10 years to check further infestation of this invasive species
3. It was noticed that the forest area has gentle to moderate slope. Therefore, a soil and moisture conservation plan have to be necessarily included to check incidental soil erosion caused by the proposed activities.
4. Furthermore, an avenue plantation scheme needs to be included for loss of flora in the area.

Overall, considering the high importance of the project, the proposal is hereby recommended for acceptance subject to the addressal of the above observations.


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