

PART – II

(To be filled by concerned Deputy Conservator of Forest)

State Serial No. of the Proposal: **-138/2021****7. Location of the Project/Scheme:**

(i) State/Union Territory	Bihar
(ii) District	Nalanda
(iii) Forest Division	Nalanda Forest Division, Biharsharif
(iv) Area of Forest Land Proposed for Diversion (in ha.)	2.1666 ha.
(v) Legal Status of Forest	

The Proposed pipe line (project area) is passing through notified protected forest i.e. Ekangarsarai- Islampur-Rajgir-Giriyak-Parwatipur Road, Rajgir to Viraytan Road, Rajgir to vanganga/Rajgir-Hisua-Gaya road, Rajgir-Biharsharif road, Swarn Bhandar road, in Nalanda District is notified as Protected Forest by Environment and Forest Department, Government of Bihar through vide S.O. No. 1647 E, dated 20.12.1994, the alignment passing through Rajgir PF is notified as Protected Forest by Environment and Forest Department, Government of Bihar through vide notification C/F-7068/3438-R.O. No. CF-17069/55-3966 dated 19.12.1955 as well as Rajgir Wildlife Sanctuary vide vide S.O. No. 727 dated 25.05.1978 and the alignment passing through Jethian PF is notified as Protected Forest by Environment and Forest Department, Government of Bihar through vide notification C/PF-10148/52-25R dated 02.01.1953 in which the present proposal for total about 2.1666 ha (as per field verification) is proposed for diversion. **(Notification annexed in Annexure 1 of Part II)**. The legal status of the proposed forest land is as follows:-

Sl No	Purpose	Status of Forest Land		(Area In Ha)
		Type	Status	Forest land
1	Laying of pipeline	Linear	Notified As PF- Road	1.8059
2	Laying of pipeline	Linear	Rajgir wildlife sanctuary and Rajgir PF	0.2247
3	Construction of ESR & Sump	Block	Rajgir wildlife sanctuary and Rajgir PF	0.0900
4	Laying of pipeline	Linear	Notified As Jethian PF (Natural Forest)	0.0060
5	Construction of GLSR	Block	Notified As Jethian PF (Natural Forest)	0.0400
Total Area (in Ha.) =				2.1666

(vi) Density of Vegetation Density of Vegetation is approximately 0.2 for the purpose of NPV calculation. Many stretches in the proposed area is devoid of major trees with canopy formation.

(vii) Species-wise (Scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation/hydel projects enumeration at FRL-1, FRL-2 meter & FRL-4 meter also to be enclosed.)

The area of diversion of 2.1666 ha user agency requires forest land does not proposed for felling of any tree species presence. The user agency attached the certificate regarding no tree felling involvement in this proposal. Since the user agency proposed for underground pipe line no need to utilize other than road side flank area and forest road side area to complete the project and does not require any felling and pruning etc. No endangered and rare tree/ species found in the proposed area. Density of Vegetation is approximately 0.2 for the purpose of NPV calculation. Bamboo, Beal, Chakundi, Gulmohar, Khair, sal, and karanda are commonly found. In all places the weeds and grass of grazing height also person present. Liner Iron Gabion Plantation also found near by the proposed alignment.

- The major forest type of the surrounding proposed area is 5/DS1 Dry Deciduous Scrub Forests, 5B/C2 Northern Dry Mixed Deciduous Forests and 5B/C1 Dry Peninsular Sal Forest.

(viii) Brief note on vulnerability of the forest area to erosion Generally the project area vulnerable to medium soil erosion due to intrinsic geological features of the substrate during rainy season.

(ix) Approximate distance of proposed site for diversion from boundary of forest The present proposal is for the developing drinking water system in Rajgir and surrounding and as well as which also consist of construction of ESR for Forest Department's Rajgir Zoo Safari and Nature Safari, and its associated pipelines in Forest land. The pipeline alignment has been taken along the ROW of different forest notified Road and forest area, as there is no viable alternate route available for

	this purpose. The proposed area is notified protected forest areas of road side, Natural Forest and sanctuary area. The proposed diversion of land in road side is situated approximately 0.1 km to 5 km. from the boundary of Rajgir and Ghora Katora PF. The proposed area also falls within Eco-sensitive Zone of Rajgir Wildlife sanctuary as well as Rajgir Wildlife Sanctuary area. Rajgir PF which is natural forest is part of Rajgir Wildlife Sanctuary falls all along the proposed area.
(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.	The proposed project area has involved Rajgir Protected Forest which is part of RWLS as well as Eco Sensitive Zone, Rajgir Wildlife Sanctuary and not forms part of any National Park, Biosphere Reserve, Tiger Reserve, Elephant Corridor etc. As per the final notification of the Eco sensitive Zone (S.O. 71(E) [10.01.2017] Final Notification declaring Eco Sensitive Zone around Rajgir Wildlife Sanctuary, Bihar) an area up to 3 km in all villages and up to 100 m in Nagar Panchayat, Rajgir, from the boundary of the protected area of the Rajgir WLS, Rajgir has been notified as an Eco-sensitive Zone.
(xi) Whether any rare/endorsed/unique species of flora and fauna found in the area. If so, the details thereof.	The undersigned is of opinion that the instant proposed project will no way affect the distribution or movement of any wild animal found in the areas where it is found. So far no such any cases of wildlife death reported in the in the proposed alignment area. The crop raiding Nilgai is also present adjoining areas of the proposed road. Surveys carried out by TERI (2015) indicated that the Sanctuary is endowed with a diversity and abundance of wildlife characteristic of the area. There are 28 species of larger mammals, over 183 species of birds, 39 species of reptiles, 11 species of amphibians, 13 species of fishes, 51 species of butterflies and 6 species of scorpions. Wild Boar (<i>Sus scrofa</i>), Neelgai (<i>Boselaphus tragocamelus</i>), Cheetal (<i>Axis axis</i>), Jungle fowl (<i>Gallus gallus murghi</i>), porcupine (<i>Hystrix indica</i>), Hare (<i>Lepus nigricollis</i>), Langur (<i>Semnopithecus entellus</i>), Monkey (<i>Macaca mulatta</i>), Jackal (<i>Canis aureus</i>) are the species of vital importance in Rajgir Wildlife Sanctuary.
(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.	As per my knowledge and as per field inspection Maniyar Math, Swarn Bhandar, Kita Maidan, Rajgir, Ajata Shatru's Kila, Jarasant akhara etc. are the important protected archaeological/ monument etc. located nearby area of the proposed project.
8. Whether the requirement of forest lands as proposed by the user agency in Col. No. 2 of Part-1 is unavoidable and barest minimum of the Project. If no, recommended area item-wise with details of alternatives examined.	The requirement of forest land as proposed by the user agency in Col. No. 2 of Part – I is unavoidable and barest minimum of the project. The user agency has proposed 1.7753 ha forest Land for diversion. During the field verification it was assessed as per the requirement and the proposed location in which water has to be supplied, it was found that actual area required in the project will be 2.1666 ha. The user agency does not have the other alternative to shift the location since, it requires more forest/Sanctuary area. The proposed alignment has passing through different roads in which 2.1666 ha out of requires forest clearance. Remaining area is not of forest land. The user agency may require separate Wild life Clearance for use of 0.3147 ha sanctuary land as well as for the Eco Sensitive Zone around Rajgir Wildlife Sanctuary.

b

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.	The User Agency has not violated the prescribed provisions of the Act. Agency has not started any work in violation of the Act in the proposed site.		
10. Details of compensatory afforestation Scheme : (i) Details of non-forest area/degraded forest area identified for compensation.	The area of diversion is 2.1666 ha. in the Nalanda Forest Division. The compensatory afforestation will be implemented in Ghora Katora PF of Nalanda Forest Division. The details Scheme as GPS Reading attached with proposal.		
(ii) Map showing Non-Forest/degraded Forest area identified for compensation.	Model scheme for compensatory afforestation along with map Attached- Annexure-II & III respectively. The proposed afforestation will be implemented by Nalanda Forest Division		
(iii) Detailed compensatory afforestation scheme including species to be planted, implementing agency. Time schedule, cost structure etc.	Model scheme for compensatory afforestation scheme is attached as Annexure-II . The time schedule depends on the final approval (stage II) of this project. The period of work details are mentioned in the scheme. The species to be planted will be guided by the local soil factor. The native species like neem, khair, bamboo, amala etc. will be planted.		
(iv) Total Financial outlay for compensatory afforestation scheme.	Total Financial outlay for Compensatory Afforestation (CA) scheme: Rs 2075581/- (Rs. Twenty Lacs Seventy Five Thousand Five Hundred & Eighty One only).		
(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).	The Land Suitability Certificate Annexed as Annexure-IV		
11. Site Inspection report of DCF specifically highlighting facts asked in Col. Nos. 7 (xi, xii), 8 & 9 above.	Attached- annexure-V		
12. Division/District Profile : (i) Geographical area of the district.	2367 Sq.K.m.		
(ii) Forest area of the district	46.30 Sq.km		
(iii) Total Forest area diverted since 1980 with number of cases	279.515 ha in 34 proposals		
(iv) Total compensatory afforestation stipulated in the district/division since 1980 on: (a) Forest land including penal compensatory afforestation.			
Year	Status of land	Area of plantation (Ha/KM)	No. of Plants
2011-12	PF- Block plantation	10 Ha.	10000
2013-14	PF- Road side linear plantation	39.5 Km.	8000
2016-17	PF- Block plantation	1 Ha.	1250
2017-18	-	-	-
2018-19	PF- Block Plantation	1 ha	2500
2019-20	PF-Block plantation	24 ha	17000
2020-2021	Block plantation	4.785 ha	4785

2020-2021	Linear plantation	0.5km	50 gabion
(b) Non-Forest land	Linear Plantation - 342 Iron Gabion 2019-20- Non PF- Linear Plantation-0.5 km-50 iron gabion) 2020-21- Linear plantation -440 (Non Forest land) 2021-22- Linear plantation -100 (Completion work) 2021-22- Linear plantation -100 (Advance-cum-Completion work)		
(v) Progress of afforestation as on (01.8.2021)	Maintenance work of previous year plantations are going on 24 ha -17000 plants 1250 plants 2018-19 - Maintenance work is completed. 1250-plants 2016-17- Maintenance work completed. 1250 plants- (other sources) - 2018-19 - Maintenance is completed. 4835 plants maintenance work is going on.		
(a) Forest land			
(b) Non-Forest land	Compensatory afforestation works were completed - 342 Iron Gabion plantations (work completed). 2018-19 - 1900 Iron Gabion plantation- Maintenance (work completed). 50- Iron gabion of 2019-20 Maintenance is going on. 440 iron gabion Maintenance work is going on. 2021-22- Linear plantation -100 (Completion work is going on) 2021-22- Linear plantation -100 (Advance-cum-Completion work is going on)		

13. Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons.

Water Resource Department has to use of Forest land for laying of pipeline under Ganga Water Lift Project Phase-I for Rajgir water distribution system under Forest (Conservation) Act 1980 for 2.1666 ha of Protected Forest land which is inclusive of 0.3147 ha. Sanctuary land for non-forestry purpose. Sufficient alternate arrangements has been tried during the inspection to lay pipeline to avoid acquisition of forest land located along pipe line alignment. However, some forest area falls in the project which is unavoidable as the project facilitate drinking water supply to the water deprived Zoo Safari and Nature Safari which are Forest areas. The requirement of forest land as proposed is unavoidable due to non-availability of any alternate land and is barest minimum required for the project.

This is the bare minimum forest land required for the project. The amount realized from the user agency in the form of NPV shall be utilized for conservation, protection, and management of forest in this division. The proposed area involves diversion of 2.1666 ha which is the barest minimum of forest land required for the instant project and has no other alternative to bye-pass. Diversion of these forest land areas for this project (non-forestry activity) may not much affect the local flora of the area. The User Agency has not violated the prescribed provisions of the Act.

As per the alignment shown, during inspection it was found that no trees are required to be cut/translocate in the proposed alignment. For utilization of Forest area in sanctuary, the user Agency has to apply for Wildlife clearance also.

In the light of the above mentioned facts and keeping the fact that Nalanda District is fall under the rural area and as per the prescribed provisions I recommend positively for the approval of this instant proposal with provisions of the Act. Nalanda Forest Division in general, Rajgir forest in particular facing acute water scarcity during the peak period of summer. The user agency has entrusted provide drinking water supply to the forest department establishments like Nature safari, Zoo safari, Venuvan, Jayaprakas Udyan and forest buildings etc.

Therefore this instant proposal for diversion of forest land may be approved with necessary conditions and directions.

Date: 30.11.2021
Place: Bihar Sharif

Signature
Name: - Dr. Nesamani. K.
Deputy Conservator of Forest
Nalanda Forest Division, Bihar Sharif

