

APPENDIX (See Rule 6)

FORM - A

Form for seeking prior approval under section 2 of the proposals by the
State Governments and authorities

PART-I

(To be filled up by user agency)

1	Project details: (i) Short narrative of the proposal and project/scheme for which the forest land is required.	Ministry of Power, Govt. of India has initiated a scheme for establishment of Transmission System for "Immediate Evacuation for North Karanpura (3X660MW) generation project of M/s NTPC North Karanpura. As a part of the said project a SPV is formed to develop the proposed project.																		
	(ii) Map showing the required forest land, boundary of adjoining forest on a 1: 50,000 scale map.	Enclosed as Annexure-1																		
	(iii) Cost of the project.	Estimated cost of the Project (Rupees in lacs) : 10400																		
	(iv) Justification for locating the project in forest area.	Enclosed as Annexure-2																		
	(v) Cost-benefit analysis (to be enclosed).	Enclosed as Annexure-3																		
	(vi) Employment likely to be generated.	Employment(Number of person-days): 385000																		
2	Purpose-wise break-up of the total land required:	Purpose-wise break-up of the total land required:-																		
		<table border="1"> <thead> <tr> <th>S.no</th> <th>Division</th> <th>Forest Area Ha.</th> <th>Non Forest Area Ha.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chatra South</td> <td>27.8413</td> <td>15.9897</td> </tr> <tr> <td>2</td> <td>Latehar</td> <td>28.4841</td> <td>102.7977</td> </tr> <tr> <td></td> <td>Total</td> <td>56.3254</td> <td>118.7874</td> </tr> </tbody> </table>			S.no	Division	Forest Area Ha.	Non Forest Area Ha.	1	Chatra South	27.8413	15.9897	2	Latehar	28.4841	102.7977		Total	56.3254	118.7874
S.no	Division	Forest Area Ha.	Non Forest Area Ha.																	
1	Chatra South	27.8413	15.9897																	
2	Latehar	28.4841	102.7977																	
	Total	56.3254	118.7874																	
		Area Statement of Chatra South Division Enclosed as Annexure-4																		
		Area Statement of Latehar Division Enclosed as Annexure-5																		

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Karanpura, Jharkhand
Ranchi

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3	Details of displacement of people due to the project, if any:	No
	(i) Number of families.	Nil
	(ii) Number of Scheduled Castes/Scheduled Tribe families	Nil
	(iii) Rehabilitation plan (to be enclosed)	Not required
4	Whether clearance under Environment (Protection) Act, 1986 required? (Yes/ No).	No
5	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed).	i) Undertaking for Compensatory Afforestation enclosed as Annexure-6 ii) Undertaking for Net Present Value(NPV) enclosed as -Annexure-7
6	Details of Certificates/documents enclosed as required under the instructions.	i) FRA Certificate from DC Chatra enclosed as Annexure-8 ii) FRA Certificate from DC Latehar enclosed as Annexure-9 iii) Abstract of Tree enumeration list- Latehar Division enclosed as Annexure-10 iv) Abstract of Tree enumeration list- Chatra Division enclosed as Annexure-11

Place: Ranchi
Date : 20.07.2021

Name: Chandra Shekhar Singh

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Office Seal & Signature:
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Designation: Assistant Manager
Mob. No.: +91-7808958161

State Serial No. of proposal: JH-056/2019

(To be filled up by the Nodal Officer with date of receipt)

C/O Adani Power Jharkhand Ltd.
3rd Floor, Lake View Tower, Opposite Canara Bank,
Doranda , Ranchi-834002
Email id:northkaranpuratransco@gmail.com

MAP SHOWING DOPS SURVEYED
 CO-ORDINATES AND BOUNDARY
 OF POST LAND PROPOSED
 TO BE DIVERTED FOR 400 KV DIC
 IN CHANDIA TA.



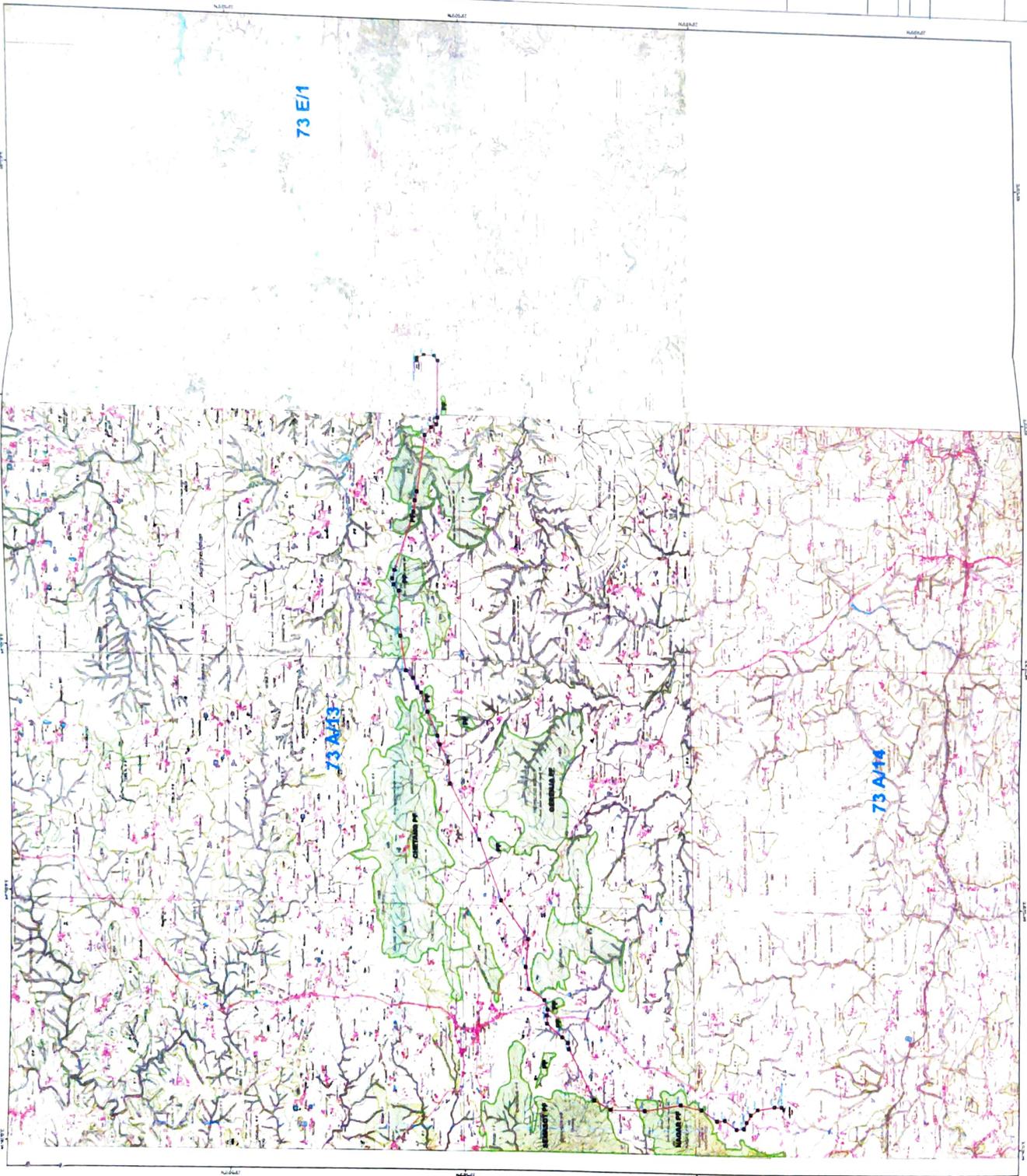
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ANNEXURE - I

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Legend PROPOSED ROUTE TOWER LOCATION POST LAND	ROUTE LENGTH (KM)
	PROPOSED ROUTE LENGTH - SUBURBAN
USER AGENCY - NORTH KARANPURA TRANSOCO LTD.	
DESIGNED BY	SUBMITTED BY



Full Title of the Project : Construction 400 kV D/C North Karanpura to Chandwa transmission line
 File No. : FP/JH/TRANS/40694/2019
 Date of Proposal : 15/06/2019

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST LAND

Name of Company: North Karanpura Transco Limited

Name of Project: 400 KV D/C (Quad Moose) North Karanpura to Chandwa Transmission Line

The introduction of Electricity act 2003, competition was brought into power sector and its sub sectors. Power generation business was de-licensed which led to huge capacity addition by the private sector and this warranted transmission network to be reinforced so that all the power generated could be supplied to the end users. The provision for independent transmission licenses were created for private sector to get in to the business.

The Government of India, Ministry of Power, vide Gazette Notification dated July 08, 2014 has notified REC Transmission Project Company Ltd. to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Transmission System for "Immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC along with creation of 400/220kV Substation at Dhanbad (ERSS-XIX)" through tariff based competitive bidding process. As part of said project the Special Purpose Vehicle (SPV) "North Karanpura Transco Ltd" formed to develop the proposed project.

The objective to plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, substations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of regional and national grid system, execution of turn-key jobs for other utilities/organizations and wheeling of power in accordance with the policies, guidelines and objectives laid down by the Central Government from time to time.

In this context, the Central Electricity Authority (CEA), Ministry of Power, Government of India has issued the administrative approval under Section 14, 68(1) & 164 of Electricity Act, 2003 in favour of the North Karanpur Transco Limited to establish "Immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC along with creation of 400/220kV Substation at Dhanbad (ERSS-XIX)".

North Karanpura to Chandwa 400 kV D/C Transmission line with bee line distance between the two

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points is about 29.789 kms. All the efforts were made to find a most feasible route which may involves minimum / least forest land through various alternative routes.

Central Coalfields limited (CCL) and Ministry of Coal (MOC) has issued NOC for construction of the project through route-1 considering the minimum coal blockage. Hence, Route-1 is the only option for the project.

For selection of optimum routes following points are taken into consideration:

- ✓ Minimum route length
- ✓ The transmission line is away from the major settlement areas
- ✓ No wildlife sanctuary / Biosphere/ Protected Areas / Aetiological sites.
- ✓ Least forest involvement
- ✓ No involvement of Defence & Airport authority of India sites
- ✓ Higher density tree patches avoided
- ✓ No involvement of temples/ Cultural Habitats/ Schools & colleges.
- ✓ Road connectivity to project sites to avoide construction of temp roads
- ✓ No involvement of Industrial corridor

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Annexure - I

COMPARATIVE STATEMENT OF ALTERNATIVE ROUTES

Sl. No.	DESCRIPTION	Route-I	Route-II	Route-III
1	Route Particulars			
	(i) Bee Line (KM)	29.789 KM	29.789 Km	29.789 Km
	(ii) Length (KM)	38.068 KM	36.449 Km	38.699 Km
	(iii) Angle Points	51 Nos	52 Nos	56 Nos
	(iv) Terrain	Plain Terrain- 95% Hilly / Undulation terrain- 5% Minimum	Plain Terrain- 90% Hilly / Undulation terrain- 10% Moderate	Plain Terrain- 85% Hilly / Undulation terrain- 15% Moderately High
2	Environmental Impact			
3	Houses within R.O.W.	No house falls within ROW corridor.	Few house falls within ROW corridor.	Few house falls within ROW corridor. But close to populated areas
4	Forest involvement	<ul style="list-style-type: none"> Most of the forest involved are of Protected forest & some parts of Revenue forest. No reserved forest, Archeological / Defence/ Aviation sites, wildlife Sanctuaries, national parks, Eco sensitive zone, Buffer Zone, Biosphere is involved in this alignment. Central Coalfields limited (CCL) and Ministry of Coal (MOC) has issued NOC for construction of project on route-1 considering minimum coal blockage Hence, Route-1 is the only option for the project 	<ul style="list-style-type: none"> Most of the forests involved are of Protected forest & Revenue forest. No reserved forest, Archeological / Industrial Defence/ Aviation sites, wildlife Sanctuaries, Eco sensitive zone, Buffer Zone, Biosphere is involved in this alignment As the most of the route-II length is passing through coal bearing area, hence, CCL and MoC has denied to issue NOC for construction of the project 	<ul style="list-style-type: none"> More forest area involved compared to route 1 & 2, most of the forests are of Protected forest & Revenue forest. No Reserved forest, Archeological / Industrial Defence/ Aviation sites, wildlife Sanctuaries, national parks, Eco sensitive zone, Buffer Zone, Biosphere is involved in this alignment As the most of the route-III length is passing through coal bearing area, hence, CCL and MoC has denied to issue NOC for construction of the project
	Details of Forest involved			

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Sl. No.	DESCRIPTION	Route-I	Route-II	Route-III
	State Involved	Jharkhand	Jharkhand	Jharkhand
	Length of forest area	12.092 Km	13.526 Km	14.561 Km
	Reserved Forest	Nil	Nil	Nil
	Protected Forest	34.0673Ha	37.6741 Ha	38.8369 Ha
	Revenue Forest	22.2581Ha	24.5455 Ha	28.1437 Ha
	Total Forest area	56.3254 Ha	62.2196 Ha	66.9806 Ha
	Flora	Sparse flora through most of the alignment commonly found species Like Palash, Sakua, Kendu, Ghamhar, Siddha , Mahua, Asan Etc., found	Dense and diverse flora in the alignment species like Like Palash, Sakua, Kendu, Ghamhar, Siddha Mahua, Asan Etc., found	Very Dense and diverse flora in the alignment species Like Palash, Sakua, Kendu, Ghamhar, Siddha , Mahua, Asan Etc., found
	Fauna	Chital, Nilgai, Sambar, Sloth Bear, Wild Boar Rabbit, Fox ,common monkey, Squirrel, etc.,	Chital, Nilgai, Sambar, Sloth Bear, Wild Boar Rabbit,	Fox ,common monkey, Squirrel, etc.,
5	Railway Crossing	1 No	3 Nos	1 No
6	Highway Crossing	2 Nos	2 Nos	2 Nos
7	Power Line Crossing:	3 Nos	3 Nos	3 Nos
8	Industrial Corridor	01 (Patches of industries)	01 (Patches of industries)	01 (Patches of industries)
9	Site Connectivity	Good	Moderately Good	Not Good

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Sl. No.	DESCRIPTION	Route-I	Route-II	Route-III
10	<p>This route length are comparable minimum crossings, well connected by road network which is convenient for construction /O&M. this route has no wildlife sanctuaries Biosphere, ESZs, Defence & Aviation zones, Industrial corridors. This route has less vegetation, away from settlements areas and least forest land involved Least no of trees will be impacted. Hence this route is more feasible economical, environment friendly and bearing recommended.</p> <p>Recommendations</p>	<p>This route is ruled out due to ecological reasons as forest land involved is more compared to Route I, The proposed corridor is passing through some of the settlements areas and no proper approach roads to project sites alternative route is uneconomical & unfeasible.</p>	<p>This route is ruled out due to longest route length compared to Route I & II Impact on ecology is expected to be high due to higher forest area, Involvement of Industrial corridor and involvement most of the area is not feasible in terms of constructability and approach roads.</p>	

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Email id: northkaranpuratransco@gmail.com

Full Title of the Project : Construction 400 kV D/C North Karanpura to Chandwa transmission line

File No. : FP/JH/TRANS/40694/2019

Date of Proposal : 15/06/2019

COST BENEFIT ANALYSIS

Cost Benefit analysis for 400 KV D/C North Karanpur to Chandwa Transmission Line of North Karanpur Transco Limited in Jharkhand State is estimated as per the Guidelines of Govt. of India, issues with letter no. 7-69/2011-FC(Pt.) dated 1st August, 2017, and given below:

Table-A: Estimation of cost of forest diversion:

Sl.	Parameters	Cost (Rs. Lakhs)
1.	Ecosystem services losses due to proposed forest diversion (Economic value of loss of eco-system services due to proposed forest diversion has been taken as the "net present value (NPV)" of the forest land being diverted as prescribed by the Central Government (MoEF&CC) NPV rates taken as Rs. 9.39 Lacs per Ha under Class II of Medium Density Forest born by the Project, works out to be Rs. 522.31 Lakhs for 56.3254 Ha Forest Land	528.90
2.	Loss of animal husbandry productivity (Taken at 10% of NPV)	52.89
3.	Cost of human resettlement (There is no human resettlement due to proposed forest diversion)	Nil
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project (No public facilities and administrative infrastructure are involved)	Nil
5.	Possession value of forest land diverted (Taken at 30% of NPV)	158.67
6.	Cost of suffering tooustees (There are no oustees due to proposed forest diversion)	Nil
7.	Habitat Fragmentation Cost (Taken at 50% of NPV)	264.45
8.	Compensatory afforestation and soil & moisture conservation cost (CA arrived at Rs. 2,50,000/- per Ha for 56.3254 Ha) .(Cost for double the area is Rs. 278.12 lakhs)	281.63

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Sl.	Parameters	Cost (Rs. Lakhs)
9.	Project Cost: Fixed assets, inclusive of investments, Current assets, Loans & Advances: Rs. 10400Lakhs Other Expenditures like preoperative expenses, interests during construction, etc. Rs. 1,000 Lakhs	11400
	TOTAL	12686.53

Table-B: Estimation of benefits of forest diversion:

Sl.	Parameters	Benefits (Rs. Lakhs)
1.	Increase in productivity attributed to the project (The project is part of immediate Evacuation for North Karanpura (3X660MW) generation project of NTPC. Hence productivity attributed cannot be quantified)	NA
2.	Benefits to the economy to the specific project (The project is part of Immediate Evacuation from North Karanpura generation project of NTPC to the load centre. There will be benefits to the economy in terms of developing robust grid infrastructure and associated economic benefits, which will be qualitative in nature)	NA
3.	No. of population benefitted due to specific project (The evacuation of power will help the power generation and distribution companies and which in turn will benefit large population, which again is in qualitative in nature)	NA
4.	Economic benefits due to of direct and indirect employment due to the project During Project Stage, the project will provide employment to 42 Permanent and 1100 Temporary Employment for a period of 14 months. The Economic Benefit is estimated at Rs. 5355 Lakhs (For Permanent Employment, Average Benefit of Rs. 15 Lakhs/Year per person and for Temporary Employment, Rs. 3.6 Lakhs /year perperson) During Operation Stage (calculated for 35 Years), the project will provide employment to 26 Direct and 50 Indirect Employment for a period of 35 Years. The Economic Benefit is estimated at Rs. 19950 Lakhs (For Direct Employment, Average Benefit of Rs. 15 Lakhs/Year per person and for Indirect Employment, 3.6 Lakhs /year perperson)	25305

Registered Office: Adani House, Nr. Mithakhali Six Roads, Navrangpura, Ahmedabad, Gujarat, India 380009
CIN: U40103GJ2015GOI094910

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Email id: northkaranpuratransco@gmail.com

Sl.	Parameters	Benefits (Rs. Lakhs)
5.	Economic benefits due to Compensatory afforestation (The NPV of the CA Land considered as prescribed by the Guidelines, 7-69/2011-FC(Pt.) dated 01.08.2017) NPV rates taken as Class III Medium Density Forest Rs. 8.03Lakhs/Ha for 56.3254 Ha.	452.29
6.	Revenue from the Project (Revenue from Transmission Line for 35 Years)	123535.52
	TOTAL	149292.81

Benefit and Cost Ratio (BC Ratio)

- I Cost of Project (including loss of Forest) = Rs. 12670.51Lakhs
- II Financial Benefits of the Project: Rs. 149287.18Lakhs

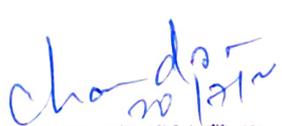
Benefit and Cost Ratio = Rs. 149292.81 Lakhs / Rs. 12686.53Lakhs = 11.77 : 1

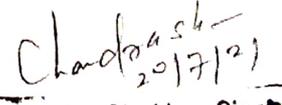
The Benefit and Cost Ratio (BC Ratio) of the Project is estimated at 11.77 : 1.

Place: Ranchi

Date : 20.07.2021

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No. 7-69/2011-FC(Pt.)
Government of India
Ministry of Environment, Forest & Climate Change
(Forest Conservation Division)

Indira Paryavaran Bhawan,
Jorbagh Road, Aliganj,
New Delhi-110003.
Dated: 01st August, 2017.

To

The Principal Secretary (Forests)
All States / Union Territories Governments.

Sub: **Guidelines for conducting Cost Benefit Analysis for projects involving diversion of forest land under the provisions of the Forest (Conservation) Act, 1980.**

Sir,

I am directed to inform that in supersession of all earlier orders / guidelines including that referred to at 2.6 of the Handbook of Forest (Conservation) Act, 1980 for conducting Cost Benefit Analysis of projects involving forest diversion, a revised set of guidelines has been prepared by the Ministry and shall be applicable for all projects involving diversion of forest land under the provisions of the Forest (Conservation) Act, 1980, which are required to be undertaken as per Table A of the new guidelines, from the date of issue of this letter. These guidelines will be applicable for all such projects which are yet to be recommended by the State Government on the date of issue of this guideline.

The guidelines for conducting Cost Benefit Analysis for projects involving forest diversion areas is enclosed herewith for further action.

This issues with the approval of competent authority.

Yours faithfully,

Encl: As above.

(Nisheeth Saxena)

Sr. Assistant Inspector General of Forests

Copy to:-

1. Prime Minister's Office (PMO)
2. Secretary, Ministry of Mines, Government of India
3. Secretary, Ministry of Coal, Government of India.
4. Secretary, Ministry of Steel, Government of India
5. Principal Chief Conservator of Forests, all States/UTs.

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6. Nodal Officer, the Forest (Conservation) Act, 1980, all States/UTs.
7. All Regional Offices, Ministry of Environment, Forest and Climate Change (MoEF&C)
8. Joint Secretary, In-charge, Impact Assessment Division, MoEF&CC
9. PS to the Hon'ble Minister of State (Independent Charge) for Environment, Forest and Climate Change.
10. Chairman, State Environment Impact Assessment Authority, all States/UTs.
11. Member-Secretary, State Environment Impact Assessment Authority, all States/UTs.
12. All Directors/Assistant Inspector General of Forests in Forest Conservation Division, MoEF&CC.
13. All Advisors/Directors/Dy. Directors in the Impact Assessment Division, MoEF&CC.
14. Director, Regional Office (Headquarters), MoEF&CC.
15. Sr. Director (Technical), NIC, MoEF&CC with a request to place a copy of this letter on website of this Ministry.
16. Sr. PPS to the Secretary, Ministry of Environment, Forest and Climate Change.
17. Sr. PPS to Director General of Forests and Special Secretary, Ministry of Environment, Forest and Climate Change.
18. Sr. PPS to Addl. Director General of Forests (Forest Conservation), Ministry of Environment, Forest and Climate Change.
19. PPS to IGF(FC), MoEF&CC.
20. Guard File.

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Cost Benefit Analysis Guidelines for forest land diversion -2017

Guidelines for conducting cost-benefit analysis for projects involving forest diversion

- (i) While considering proposal for diversion of forest land for non-forestry use, it is essential that ecological and environmental losses and eco-economic distress caused to the people who are displaced are weighted against economic and social gains.
- (ii) Whenever the forest land is involved in the development projects, the cost of ecosystem services and fragmentation of habitat of wildlife and economic distress caused to people dependent on forests and the cost of settlement of people dependent on forest should also be added as the cost of forest diversion in addition to the standard project cost which would have been incurred by the user agencies without involvement of forest land while conducting the cost benefit analysis of the project. Similarly the benefits from the project accruing due to diversion of forest land and used in the project should also be accounted for in the benefits component in addition to the standard benefits of the project which would have been accrued without involvement of forest land while conducting the cost benefit analysis and determining the benefit and cost ratio (BC ratio).
- (iii) The cost of compensatory afforestation and its maintenance in future and soil & moisture conservation at present discounted value and future benefits from such compensatory forestation accruing over next 50 years monetised and discounted to the present value should be included as cost and benefits respectively of compensatory afforestation while conducting the cost benefit analysis and determining the benefit and cost ratio (BC ratio).
- (iv) Table-A lists the details the types of projects involving forest land for which cost-benefit analysis will be required. Table-B lists the parameters according to which the cost aspect of forest land diverted for the development projects will be determined, while Table-C lists the parameters for assessing the benefits accruing to the project using of forest land.
- (v) A cost-benefit analysis as above should accompany the proposals sent to the Central Government for forest clearance under the Forest Conservation Act.

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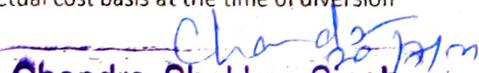
Cost Benefit Analysis Guidelines for forest land diversion -2017

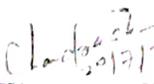
Table-A : Cases under which a cost-benefit analysis for forest diversion are required

No	Nature of proposal	Applicable/ not applicable	Remarks
1	All categories of proposals involving forest land upto 20 hectares in plains and upto 5 hectare in hills	Not applicable	These proposals may be considered on a case to case basis and value judgement
2	Proposal for defence installation purposes and oil prospecting (prospecting only)	Not applicable	In view of national Priority accorded to these sectors, the proposals would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	These activities being detrimental to protection and conservation of forest, as a matter of policy, such proposals would be rarely entertained.
4	All other proposals involving forestland more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydro projects, mining activity, railway lines, location specific installations like micro-wave stations, auto repeater centres, TV towers etc.	Applicable	These are cases where a cost-benefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest.

Table-B: Estimation of cost of forest diversion

SN	Parameters	Remarks
1	Ecosystem services losses due to proposed forest diversion	Economic value of loss of eco-system services due to diversion of forests shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF& CC). <i>Note: In case of National Parks the NPV shall be ten (10) times the normal NPV and in case of Wildlife Sanctuary the NPV shall be five (5) times the normal NPV or otherwise prescribed by the ministry or any other competent authority</i>
2	Loss of animal husbandry productivity, including loss of fodder	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum
3	Cost of human resettlement	To be quantified and expressed in monetary terms as per approved R&R plan
4	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion


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Cost Benefit Analysis Guidelines for forest land diversion -2017

5	possession value of forest land diverted	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forestland whichever is maximum
6	Cost of suffering to oustees	The social cost of rehabilitation of oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted.
8	Habitat Fragmentation Cost	While the relationship between fragmentation and forest goods and services is complex, for the sake of simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule.
	Compensatory afforestation and soil & moisture conservation cost	The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value

Table-C - Existing guidelines for estimating benefits of forest-diversion in CBA

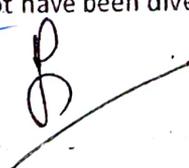
Sr. No.	Parameters	Remarks
1	Increase in productively attribute to the specific project	To be quantified & expressed in monetary terms avoiding double counting
2	Benefits to economy due to the specific project	The incremental economic benefit in monetary terms due to the activities attributed to the specific project
3	No. of population benefited due to specific project	As per the Detailed project report
4	Economic benefits due to of direct and indirect employment due to the project	As per the Detailed project report.
5	Economic benefits due to Compensatory afforestation	Benefits from such compensatory forestation accruing over next 50 years monetised and discounted to the present value should be included as benefits of compensatory afforestation. *For benefits of CA the guideline of the Ministry for NPV estimation may be consulted.

Note-1: Net Present value (NPV) of environment and ecosystem services loss:

The concept of Net Present value of the forest land diverted is a scientific method of calculating the environmental cost and other losses caused due to diversion of forest land for non-forestry purposes. The NPV represents the net value of various ecosystem services and other environmental services in monetary terms which the forest would have provided if the forest would not have been diverted.

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Cost Benefit Analysis Guidelines for forest land diversion -2017

Note-2: Possession value of forest land diverted:

The forest land diverted for the project such as irrigation, hydropower, railways, roads, wind, and transmission lines and mining etc are unlikely to be returned and remains in possession of the user agencies. Therefore 30% of the net present value (NPV) of forest land diverted or market rate of adjoining area in the district should be added as a cost component as "possession value of forest land" in addition to the environmental costs due to loss of forests.

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20/7/21
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Assistant Manager Projects
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Full Title of the Project

Annexure-4

File No.

: Construction 400 KV D/C North Karanpura to Chandwa transmission line

: FP/JH/TRANS/40694/2019

Date of Proposal

: 15/06/2019

Area Statement Chatra South Forest Division

SR. NO.	District	Division	Block/Range	VILLAGE NAME	THANA NUMBER	Khata No.	PLOT NO	Notified Forest Land Area Ha.	Jungle Jhari Area Ha.	Forest Land Area				Nature of Land
										Length (M)	Width (M)	Total Area in Sq. M.	Area in Ha.	
1	Chatra	Chatra South	Tandwa	Kamta	60	104	1090	0.0000	0.5376	235.05	22.87	5376	0.5376	GM
					60	104	797	0.0000	1.4779	344.48	42.90	14779	1.4779	GM
					60	104	934	0.0000	1.5624	364.66	42.85	15624	1.5624	GM
					60	104	938	0.0000	0.0310	26.02	11.91	310	0.0310	GM
					60	104	939	0.0000	0.0588	41.26	14.25	588	0.0588	GM
					60	104	945	0.0000	0.7210	233.71	30.85	7210	0.7210	GM
					Sub total		0.0000	4.3887	1245.18			4.3887		
2	Chatra	Chatra South	Tandwa	Raham	62	78	679	0.0000	0.6776	163.52	41.14	6776	0.6776	GM
					62	176	739	0.0000	0.0167	8.36	19.98	167	0.0167	GM
						Sub total		0.0000	0.6943	171.88		6943	0.6943	
3	Chatra	Chatra South	Tandwa	Masiliaing	61	1	274	0.0000	0.2883	96.53	29.87	2883	0.2883	GM
					61	1	311	1.1868	0.0000	385.73	30.77	11868	1.1868	PF
					61	1	312	0.6170	0.0000	186.97	33.00	6170	0.6170	PF
					61	1	PART 312	0.0000	1.0450	227.17	46.00	10450	1.0450	GM
					61	1	45	0.0000	0.1307	39.55	33.05	1307	0.1307	GM
					61	1	69	0.0000	1.1146	301.05	37.02	11146	1.1146	GM
					61	1	71	0.0000	0.0048	22.40	2.14	48	0.0048	GM
					61	1	76	0.0000	0.2971	75.58	39.31	2971	0.2971	GM
					61	1	80	0.0000	0.1786	48.38	36.92	1786	0.1786	GM
					Sub total		1.8038	3.0591	1383.36			4.8629		

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सुरेन्द्र प्रसाद शुभन
वन प्रमण्डल पदाधिकारी
घतरा दक्षिणी वन प्रमण्डल

27.7.2021

SR. NO.	District	Division	Block/Range	VILLAGE NAME	THANA NUMBER	Khata No.	PLOT NO	Notified Forest Land Area Ha.	Jungle Jhari Area Ha.	Forest Land Area				Nature of Land
										Length (M)	Width (M)	Total Area in Sq. M.	Area in Ha.	
4	Chatra	Chatra South	Tandwa	Saradhu	29	278	1706	3.4766	0.0000	755.78	46.00	34766	3.4766	PF
					29	278	448	0.0000	0.0020	12.50	1.60	20	0.0020	GM
					29	65	455	0.0000	0.0732	24.92	29.37	732	0.0732	GM
					29	278	457	0.0000	0.0001	1.09	0.92	1	0.0001	GM
					29	278	460	0.0000	0.1059	63.80	16.60	1059	0.1059	GM
					29	278	481	0.0672	0.0000	70.76	9.50	672	0.0672	PF
					29	278	484	1.9183	0.0000	417.02	46.00	19183	1.9183	PF
					29	278	485	2.3722	0.0000	515.70	46.00	23722	2.3722	PF
					29	278	PART 485	0.0000	0.9766	212.30	46.00	9766	0.9766	GM
					29	278	874	1.9495	0.0000	423.80	46.00	19495	1.9495	PF
					Sub total			9.7838	1.1578	2497.68		10.9416		
5	Chatra	Chatra South	Tandwa	Devalgara	28	27	120	0.0000	0.0069	16.16	4.27	69	0.0069	GM
										Sub total		0.0000	0.0069	16.16
6	Chatra	Chatra South	Tandwa	Kundi	27	37	1	1.2510	0.0000	271.96	46.00	12510	1.2510	PF
					27	37	PART 1	0.0000	1.4792	321.57	46.00	14792	1.4792	GM
					27	37	14	0.0000	1.3085	533.06	24.55	13085	1.3085	GM
										Sub total		1.2510	2.7877	1126.58
7	Chatra	Chatra South	Tandwa	Kurlonga	26	50	402	0.6945	0.0000	180.26	38.53	6945	0.6945	PF
					26	50	606	2.2137	0.0000	484.08	45.73	22137	2.2137	PF
										Sub total		2.9082	0.0000	664.34
					Total forest Land Ha.			15.7468	12.0945			27.8413		

सुरेन्द्र प्रसाद सुमन
वन प्रमण्डल पदाधिकारी
चतरा रक्षिण, वन प्रमण्डल

Name: Chandra Shekhar Singh
Office Seal & Signature:
Designation: Assistant Manager
Mob.No.: +91 7808958161

Chandra Shekhar Singh
Assistant Manager Projects
Noida Karanpura Transco Limited
Ranchi

Place: Ranchi
Date: 20.07.2021

North Karanpura Transco Limited

(Program Under Government of India)
Jayprabha Nagar, Behind Celebration Marriage Hall
Near Markham College Hazaribagh 825301
Email Id: northkaranpuratransco@gmail.com

Full Title of the Project : Construction 400 kV D/C North Karanpura to Chandwa transmission line

File No. : FP/JH/TRANS/40694/2019

Date of Proposal : 15/06/2019

UNDERTAKING FOR COMPENSATORY AFFORESTATION (CA)

UNDERTAKING / CERTIFICATE

TO BEAR THE COST OF COMPENSATORY AFFORESTATION

M/s. North Karanpura Transco Limited hereby undertakes to bear the cost of compensatory Afforestation as well as maintenance cost on degraded forest, double the area of forest land proposed for diversion, in lieu of CA Land for the forest land proposed to be diverted for "Construction 400 kV D/C North Karanpura to Chandwa transmission line" as per prevailing wage rates at the time of plantation or MoEF Guideline.

Place: Ranchi

Date : 07.07.2021

Name: Chandra Shekhar Singh

Chandra Shekhar Singh
Chandra Shekhar Singh
Assistant Manager Projects
North Karanpura Transco Limited
Ranchi

Office Seal & Signature:

Designation: Assistant Manager

Mob. No.: +91-7808958161

[Signature]
सुरेन्द्र प्रसाद सुमन
का प्रमण्डल पदाधिकारी
राज्य वन विभाग का प्रमण्डल

Counter signed by:-

Divisional Forest officer

.....Forest Division

Office Seal.....

North Karanpura Transco Limited

(Program Under Government of India)
Jayprabha Nagar , Behind Celebration Marriage Hall
Near Markham College Hazaribagh 825301
Email Id: northkaranpuratransco@gmail.com

Full Title of the Project : Construction 400 kV D/C North Karanpura to Chandwa transmission line

File No. : FP/JH/TRANS/40694/2019

Date of Proposal : 15/06/2019

UNDERTAKING / CERTIFICATE

CONSENT LETTER FOR NET PRESENT VALUE

Net present value (NPV) for the forest land of **56.3254 Ha** . required for the project of "Construction of **400 kV D/C North Karanpura to Chandwa Transmission Line**" passing through the area of following villages:

Name of Village	Tehsil	District
Tandwa, Raham, Kamta, Masilaung, Saradhu, Dewalgara, Kundi, Kurlonga,	Tandwa	Chatra
Phulbasiya (Amarwadih)	Bariyatu	Latehar
Ara, Chamatu, Chetar, Sheregara, Nagra, Pundurlawa, Jarri, Basya, Gerenja, Jogiyadih, Semarsot, Hempur, Murgaon, Chitarpur	Balumath	Latehar
Nagar, Angarha, Ambadohar, Chatro,	Chandwa	Latehar

We hereby agree to abide by conditions regarding payment of NPV as prevailing norms of State Government and MOEF& CC in respect of proposed forest land.

We hereby also agree to pay additional charges or revision of rates in NPV (if any), as per the order of hon'ble Supreme court and / or as per the order of the Govt. the differential amount of NPV shall be paid by the company.

Place: Ranchi

Date : 07.07.2021

सुरेन्द्र प्रसाद सुमन
वन प्रसाहल पदाधिकारी
वतरा दक्षिणी वन प्रसाहल

Name: Chandra Shekhar Singh

Chandra Shekhar Singh

Assistant Manager - Projects
North Karanpura Transco Limited

Office Seal & Signature:

Designation: Assistant Manager

Mob. No.: +91-7808958161

Counter signed by:-

Divisional Forest officer

.....Forest Division

Office Seal.....

FORM-I
(For linear projects)
Government of Jharkhand
Office of the District Collector, Chatra

No. 1964

Dated. 21.12.2020

TO WHOMSOEVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No.11-9/98FC(pt) dated 3rd August 2009 where in the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA', for short) on the Forest land proposed to be diverted for non-forest purpose read with MoEF's letter dated 5th February 2013 wherein MoEF issued certain relaxation in respect of linear projects, it is certified that 27.8413 hectares of forest land proposed to be diverted in favour of **North Karanpura Transco Limited** for **400 KV D/C Transmission line from North Karanpura To Chandwa** in Chatra district falls within jurisdiction of **Raham, Kamta, Masilong, Saradhu, Kudlonga, Kundi & Devalgadha Villages** in **Tandwa** tehsil.

It is further certified that

- (a) the complete process for identification and settlement of rights under the FRA has been carried out for the entire **27.8413 hectares** of forest area proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committees Sub Division level Committees and the District Level Committee are enclosed as annexure 01 to annexure 03
- (b) the diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed and the Grama-Sabhas have given their consent to it.
- (c) the proposal does not involve recognised rights of Primitive Tribal Groups and Pre-agricultural communities.

Encls.: As above.

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20/12/20
Chandra Shekhar Singh
Assistant Manager, Projects
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20/12/20
Chandra Shekhar Singh
Assistant Manager, Projects
North Karanpura Transco Limited
Ranchi

Divyanshu Jha
23/12/20
Divyanshu Jha
उपायुक्त
चतरा

North Karanpura Transco Limited

(Program Under Government of India)

Sunita Sadan, 1st Floor, Ashram Marg Bariatu, Near Military Firing Range,

Dist -Ranchi, Pin 834009 Jharkhand, Fax: 91-(79)-2555 7177

Email id: northkaranpuratransco@gmail.com

Full Title of the Project : Construction 400 kV D/C North Karanpura to Chandwa transmission line

File No. : FP/JH/TRANS/40694/2019

Date of Proposal : 15/06/2019

UNDERTAKING FOR TREE CUTTING

This is to undertake that the total number of trees falling in corridor of 46 meter is 7371 nos out of which 1145 numbers of trees are impacting tower base area and 1794 numbers of trees are impacted in corridor of transmission line, total 2939 tree which will be cut during construction of mentioned transmission line, trimming of 1612 numbers of trees will be done which are lying in corridor of transmission line during stringing work and rest 2820 numbers of tree will remain unharmed and shall continue standing in corridor as it is.

Place: Ranchi

Date: 20.07.2021

Name: Chandra Shekhar Singh

Chandra Shekhar Singh
Chandra Shekhar Singh
 Assistant Manager - Projects
 North Karanpura Transco Limited
 Ranchi

Office Seal & Signature:

Designation: Assistant Manager

Mob. No.: +91-7808958161

सुरेन्द्र प्रसाद सुजन
 27.7.2021
सुरेन्द्र प्रसाद सुजन
 वन प्रमण्डल पदाधिकारी
 चतरा दक्षिणी वन प्रमण्डल

**400 KV D/C North Karanpura to Chandwa Transmission Line
Abstract of Tree Enumeration Tandwa Range**

Sl. No	Name of Tree	Girth in mtrs						Total	Remarks
		0.00 m to 0.30 m	0.31 m to 0.60 m	0.61 m to 0.90 m	0.91 m to 1.20 m	1.21 m to 1.50 m	1.51 m to Above		
1	Aajan	1	1		1			2	
2	Aasan	2						2	
3	Bargat	1						1	
4	Behera	12	5					17	
5	Bele	6						6	
6	Bell	2	1					3	
7	Beri	6						6	
8	Chakondih	245	198	1			1	445	
9	Chamarberi	4						4	
10	Ginjan	16	3					19	
11	Ginjar	13	1					14	
12	Jamun	1			1			2	
13	Kahuwa	2						2	
14	Karhar	1						1	
15	Kasum						1	1	
16	Kendu	7	1		1			9	
17	Khair	65	20					85	
18	Liptus	105	57	3				165	
19	Mahua	105	228	63	5	8	15	424	
20	Mango						2	2	
21	Musond	1						1	
22	Neem	4	9		1		1	15	
23	Palas	11	35	3				49	
24	Piyar	9						9	
25	Phared	8	1					9	
26	Pipal		1					1	
27	Sagwan		7					7	
28	Sakhuwa	3692	2000	28	15	17	17	5769	
29	Salai	5						5	
30	Sale	4						4	
31	Sidha	251	20	4	1			276	
32	Shule	2					1	3	
33	Tendu	3						3	
34	Velwa	10						10	
Total		4594	2588	102	24	25	38	7371	

G. Total = 7371 nos.

27.7.2021
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Chandra Shekhar Singh
Assistant Manager-Projects
North Karanpura Transco Limited
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Kali Kinkar
I.F.S.
Divisional Forest Officer
Chatra South Forest Division

Ch
वन क्षेत्र पदाधिकारी
टण्डवा प्रखण्ड।

400 KV D/C NORTH KARANPURA TO CHANDWA T/L

TREE CUTTING LIST LOCATION WISE - Tower Base

Sr. No.	Loc. No.	Girth in mtrs							Total	Remarks
		0.00 to 0.30	0.31 to 0.60	0.61 to 0.90	0.91 to 1.20	1.21 to 1.50	1.51 to Above			
1	LOC. 8/3		30					33		
2	LOC. 8/4	44	68					112		
3	LOC. 9/0	288	112					401		
4	LOC. 10/0	76	49					125		
5	LOC. 11/1	28						30		
6	LOC. 11/5	1						20		
7	LOC. 12/0	109	53					162		
8	LOC. 13/0	169	35	6	1			213		
9	LOC. 14/0	45	4	6	2		1	49		
TOTAL		760	354	26	3		1	1145		

Chandra
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 Assistant Manager - Projects
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 Ranchi

CS
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CS
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 चतरा दक्षिणी वन प्रमण्डल

400 KV D/C NORTH KARANPURA TO CHANDWA T/L
TREE CUTTING LIST IN CORRIDOR

Sr. No.	Section No.	Girth in mtrs										Total	Remarks
		0.00 to 0.30	0.31 to 0.60	0.61 to 0.90	0.91 to 1.20	1.21 to 1.50	1.51 to Above						
1	LOC.8/0 TO LOC.8/3		13	6	2						2	25	
2	LOC.8/3 TO LOC.8/4	24	59									83	
3	LOC.8/4 TO LOC.9/0	427	389	1						1		818	
4	LOC.9/0 TO LOC.10/0	120	153								1	274	
5	LOC.10/0 TO LOC.11/1	94	111	4	7					1		213	
6	LOC.11/1 TO LOC.11/5	1	2		3					7	16	29	
7	LOC.11/5 TO LOC.12/0	21	64	14	1							100	
8	LOC.12/0 TO LOC.13/0	100	44									144	
9	LOC.13/0 TO LOC.14/0	59	38	3							2	102	
10	LOC.14/0 TO TANDWA RANGE END	5	1									6	
	TOTAL	851	874	28	8	11	22	1794					

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27-7-2021
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चतरा दक्षिणी वन प्रमण्डल

**400 KV D/C North Karanpura to Chandwa Transmission Line
Tree Trimming List in corridor**

Sr. No.	Section No.	Girth in mtrs										Total	Remarks
		0.00 to 0.30	0.31 to 0.60	0.61 to 0.90	0.91 to 1.20	1.21 to 1.50	1.51 to Above						
1	LOC. 8/0 TO LOC. 8/3		7	5								12	
2	LOC. 8/3 TO LOC. 8/4	5	59	1								65	
3	LOC. 8/4 TO LOC. 9/0	503	259									762	
4	LOC. 9/0 TO LOC. 10/0	193	59									252	
5	LOC. 10/0 TO LOC. 11/1	123	110									233	
6	LOC. 11/1 TO LOC. 11/5	1	2	10	5	7						25	
7	LOC. 11/5 TO LOC. 12/0	17	40	6								63	
8	LOC. 12/0 TO LOC. 13/0	108	23									131	
9	LOC. 13/0 TO LOC. 14/0	60	5									65	
10	LOC. 14/0 TO TANDWA RANGE END	4										4	
	Total	1014	564	22	5	7	0	0	0	0	0	1612	

वन क्षेत्र पदाधिकारी
टण्डवा प्रवेग

27.7.2021
सुरेन्द्र प्रसाद सुमन
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