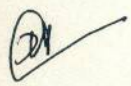
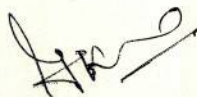


## PARAMETERS FOR EVALUATION OF LOSS OF FORESTS

S.NO	PARAMETERS	LOSS	REMARKS
1	Loss of value of timber, fuelwood and minor forest produce on an annual basis including loss of man-hour per annum of people which derived livelihood and wages from the harvest of these commodities.	Rs 18,428.00 per year	Considering no.of trees to be felled-215 (approximataly)and average cost of each tree Rs.3000.00 only total cost comes to Rs.6,45,000 ,assume life of transmission line is 35 years ,hence loss per annum= $\text{Rs.}645000/35 = \text{Rs } 18,428.00$
2	Loss of animal husbandry productivity including loss fodder.	Nil	No fodder is produced on the proposed land of forest.
3	Cost of human resettlement	Nil	No people is being displaced.
4	Loss of public facilities and administrative infrastructure (roads buildings school,dispensaries electrics lines.railway etc.) on forest land or which would require forest land if these facilities were diverted due to the project.	Nil	No public facilities is being displaced .
5	Environmental loss:( soil erosion,effect of hydrological cycle,wildlife habitate microclimate upsetting of ecological balance)	Nil	Only tower foundation at a distance of about 300-400 meter distance will be placed on the ground which will be compacted properly after the foundation work and revetment wall will be provided wherever required.Hence there will be no soil erosion After construction ,dwarf trees may be planted.Hence there will be no adverse effect on hydrological cycle,wildlifehabitat etc.
6	Suffering of oustees.	Nil	No people is being displaced.

  
 दीपक कृष्णन / Deepak Krishnan  
 वरिष्ठ अभियंता / Sr. Engineer  
 पावरग्रिड, पटना / POWERGRID, PATNA

  
 जी. के. वर्मा / G. K. VERMA  
 मुख्य प्रबंधक (टी.एल. निर्माण) / Chief Manager (TLC)  
 पावरग्रिड, पटना / POWERGRID, PATNA



**PARAMETERS FOR EVALUATION OF BENEFIT ,NOTWITHSTANDING LOSS OF FORESTS**

S. No	PARAMETERS	BENEFIT	REMARKS
1	Increase in productivity attributable to the specific project	Rs 6490.1088 Million/year	Please see annex.A1
2	Benefit to economy	On construction of line power to the tune of 1000 MW will be transmitted from generation project in Nabinagar to connect with 400/220 kV, Gaurichak, Patna Substation of Power Grid, Bihar which is connected to national grid. This huge power ,will be utilised for industries and domestic areas. This will bring industrial groth in the country thereby benefitting our economy.Due to supply of power in domestic areas,the living standard of people will be improved.	
3	No of population benifitted	125 million approximately	Considering per capita power consumption as 632 unit and net energy transfer of 7726.32 million unit /year total population to be benifitted = $7726.32 * 1000000 / 632 = 12225189.87$ . However due to industrial growth 125 million people are likely to be indirectly benifitted.
4	Employment potential	10000nos. Approximately.	
5	Cost of acqusition of facility on non forest land wherever feasible	Nil	No land is acquired for transmission line project as per electricity rule.Hence acqution cost is nil
6	Loss of (a)agriculture &(b)animal husbandary production due to diversion of forest land.	Nil	There will be no effect on agriculture animal husbandary production as dwarf trees hrbes may be planted below the transmission line
7	Cost of rehabilitating the displaced persons as different from compensatory amounts given for displacement	Nil	No people is being displaced.
8	cost of supply of free fuel-wood toworkers residing in or near forest area during the period of construction	Nil	No free fuel wood will be utilised during construction of line.


दीपक  
वरिष्ठ अभियंता / Sr. Engineer  
पावरग्रिड, पटना / POWERGRID, PATNA

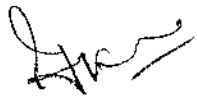
जी. के. वर्मा / G. K. VERMA  
मुख्य प्रबंधक (टी.एन. डिपार्टमेंट) / Chief Manager (TL)  
पावरग्रिड, पटना / POWERGRID, PATNA

ANNEXURE:-A

Maximum capacity of power transform	: 1000 MW
Utilization Factor	: 90 %( 900 MW)
Energy Transfer (Annually) Unit/year	: $900 \times 24 \times 365 \times 1000$ Million
Transmission Loss	: 02%
Net Energy Transfer	: 7726.32 Million Unit/year
Power Tariff i.e. Rs4.00/unit (Average)	: ₹ 30905.28 Million/year
Share of transmission charge	: 5% of Sale value
Transmission Component	: ₹ 1545.264 Million/year
Generation profit (20% of tariff)	: ₹ 6181.056 Million/year
Transmission profit component (20% of transmission component)	: ₹ 309.0528 Million/year
Total profit	: ₹ 6490.1088 Million/year

All the above figure shown sale/profit of one year only.

  
दीपक / Jeepak Krishnan  
वरिष्ठ अभियंता / Sr. Engineer  
पावरग्रिड, पटना / POWERGRID, PATNA

  
जी. के. वर्मा / G. K. VERMA  
मुख्य प्रबंधक (टी.एल. निर्माण) / Chief Manager (TL)  
पावरग्रिड, पटना / POWERGRID, PATNA