

### Justification for Locating the Project in Forest Land.

Transmission line projects are always site specific, irrespective of the land and area classification. The Construction of 765 kV D/C Hexa Khandawa - Duhle Transmission line of Khargone transmission limited covers diversion of 39.437 Hectare forest land. The exploration conducted so far has proved substantially lower area confined to forest. There is no non-forest area in the retained region.

Three alternative route corridors were identified largely by maximizing linear sighting opportunities, such as Minimum Forest area, avoiding existing National highways, Aerodromes and Power line corridors, Negotiation with Rivers, Railway crossings, and Telephone line crossing. All efforts have been made to provide minimum numbers of angle points and utmost care have been taken on the ground with minimum possible angle of deviation for safest and reliable Transmission Power.

The above forest land is minimum requirement for the construction of proposed line as this intended Interstate transmission line is meant for System Strengthening in Western Region for National Grid which is supposed to evacuate 1320 MW of power from NTPC-Khargone TPP. The said transmission line will connect the generation project with three substations. This project will improve power supply and grid reliability to the electricity consumers in domestic, commercial, agricultural and industrial segments in Madhya Pradesh and Maharashtra.

The line passes through the state of Madhya Pradesh, through the Districts of Khandwa, Khargone, Barwani districts of Madhya Pradesh and Dhule district of Maharashtra. An average of 1000 to 1500 people will be benefitted fully, partially during the construction activities and once the project reaches its operations phase a total population of say 1 lakh to 1.5 lakh people and 1000 small & medium scale industries will be benefitted through the power which is to be transmitted in first 5 years of its operations across the states of Madhya Pradesh and Maharashtra. Every effort has been made to minimize the utilization of forest land. The proposed line for construction is of 189.049 km, which is near to the BEE-line, alternative -2 is of 192.934 km and alternative -3 is of 190.758 km.

The alignment with minimum forest area and having minimum line length has been selected as the proposed route for construction. After detailed analysis, it is observed that the proposed line (Alternative-1) witnessed minimum forest area, route length, minimum crossing in terms of Rail, Road and existing Power lines. Alternative -1 also is best in terms of safety and reliability grounds for construction as well as maintenance. Keeping the above points in consideration, we propose alternative 1 to be taken as the final proposed route alignment.

The proposed transmission line does not involve any National sanctuary, parks, Elephant corridors, reserved biospheres and Historical monuments. The proposed line does not witness any natural habitat of endangered, extinct flora & fauna, species.

In conclusion we would like to inform you that utmost care is been taken to minimize forest area, but it is not possible to completely avoid it. We will be in need of your continuous support for the successful installation of this Nation's project.

DATE : 14.11.2016  
PLACE : KHARGONE

SIGN:-

NAME : SHRISHAIL SHIRUR  
DEGN : PROJECT HEAD



## 765 KV D/C HEXA KHANDWA - DHULE TRANSMISSION LINE

### Comparative Statement for 3 Alternative Routes

SL. No.	Description	Alt-I (Proposed)	Alt-II	Alt-III
1	<b>Bee Line Length</b>	<b>178.558 Kms.</b>	<b>178.558 Kms.</b>	<b>178.558 Kms.</b>
2	a) Plain	189.049 Kms.	192.934 Kms.	190.758 Kms.
3	b) Hilly/Undulated	85%	70%	90%
4	a) Angle Points (Incl. Start & End Points)	15%	30%	20%
5	Wind Zone	60	74	82
6	River Crossing	ZONE 2-Khandwa S/S-Dhule S/S	ZONE 2-Khandwa S/S-Dhule S/S	ZONE 2-Khandwa S/S-Dhule S/S
7	Forest Area	Tapi River	Tapi River	Tapi River
8	Power Line crossings (132 kV and Above)	5.886 Kms.	18.168 Kms.	13.168 Kms.
9	Railway crossings	13	13	14
10	River crossings	1	1	1
11	National Highway	1	1	1
12	State Highway	1	1	3
13	Marshy Areas	5	5	4
14	Transportation & Maintenance	NIL	NIL	NIL
15	Defense Area (Military Area)	Available	Available	Available
16	Wild Life Sanctuaries / National Parks	NIL	NIL	NIL
17	Communication Line Crossing	NIL	NIL	NIL
18	Tree Compensation	NIL	NIL	NIL
19	Places of historical / cultural / religious / tourist importance	Low	Low	Low
20	Social Issues	NIL	NIL	NIL
21	Power Line crossings (132KV & Above)	AP1-AP2 (132 KV D/C BADWAH-DESHGAON MPEB) AP3-AP4 (220 KV D/C BADWAH-DESHGAON MPEB) AP4-AP5 (400 KV D/C INDORE-KHANDWA PGCIL TN 196-197) AP6-AP7 (400 KV D/C PRITAM PURA-MUNDI TN- 216-217) AP8-AP9 (220 KV D/C AURANGA PURA-OMKARESHWAR TN 291-292) AP10-AP11 (400 KV D/C KNW-RGH TN 191-192) AP12-AP13 (400 KV D/C LULO LINE PRAPOSED SGPL) AP18-AP19 (220 KV D/C TN 252-253 MPEB) AP22-AP23 (400 KV D/C TN 296-297 MPEB) AP24-AP25 (RAIL POLL 132 KV TN 158-159 MPEB) AP51-AP52 (132 KV D/C S/C U/C LINE) AP58-AP59 (765 KV S/C DHULE-VADODARA TN 3-4) AP58-AP59 (765 KV S/C DHULE-AURANGABAD TN 3-4)	AP1-AP2 (132 KV D/C BADWAH-DESHGAON MPEB) AP3-AP4 (220 KV D/C BADWAH-DESHGAON MPEB) AP5-AP6 (400 KV D/C INDORE-KHANDWA PGCIL) AP7-AP8 (400 KV D/C PRITAM PURA-MUNDI) AP13-AP14 (220 KV D/C AURANGA PURA-OMKARESHWAR) AP15-AP16 (400 KV D/C KNW-RGH) AP17-AP18 (400 KV D/C LULO LINE PRAPOSED SGPL) AP25-AP26 (220 KV D/C MPEB) AP30-AP31 (400 KV D/C MPEB) AP32-AP33 (RAIL POLL 132 KV MPEB) AP66-AP67 (132 KV D/C S/C U/C LINE) AP73-AP74 (765 KV S/C DHULE-VADODARA TN 3-4) AP73-AP74 (765 KV S/C DHULE-AURANGABAD TN 3-4)	AP1-AP2 (132 KV D/C BADWAH-DESHGAON MPEB) AP3-AP4 (220 KV D/C BADWAH-DESHGAON MPEB) AP5-AP6 (400 KV D/C PRITAM PURA-MUNDI) AP6-AP7 (400 KV D/C INDORE-KHANDWA PGCIL) AP8-AP9 (220 KV D/C AURANGA PURA-OMKARESHWAR) AP10-AP11 (400 KV D/C KNW-RGH) AP14-AP15 (400 KV D/C LULO LINE PRAPOSED SGPL) AP26-AP27 (220 KV D/C MPEB) AP29-AP30 (400 KV D/C MPEB) AP31-AP32 (RAIL POLL 132 KV MPEB) AP65-AP66 (132 KV D/C S/C U/C LINE) AP72-AP73 (132 KV S/C LINE) AP81-AP82 (765 KV S/C DHULE-VADODARA TN 3-4) AP81-AP82 (765 KV S/C DHULE-AURANGABAD TN 3-4)
22	River crossings	AP52-AP53 Tapi River	AP68-AP69 Tapi River	AP68-AP69 Tapi River
23	Airports	NIL	NIL	NIL
24	NH Crossings	AP43-AP44 (NH-3) Mumbai To Agra	AP54-AP55 (NH-3) Mumbai To Agra	AP57-AP58 (NH-3) Mumbai To Agra AP62-AP63 (NH-3) Mumbai To Agra AP77-AP78 (NH-3) Mumbai To Agra
25	SH Crossings	AP17-AP18 (SH-31) Khargone To Kasrawad AP24-AP25 (SH-26) Khargone To Julwania AP46-AP47 (SH-1) Sangvi To Boradi AP48-AP49 (SH-4) Shirpur To Varul AP56-AP57 (SH-6) Amalner To Sindkheda	AP23-AP24 (SH-31) Khargone To Kasrawad AP33-AP34 (SH-26) Khargone To Julwania AP60-AP61 (SH-1) Sangvi To Boradi AP65-AP66 (SH-4) Shirpur To Varul AP68-AP69 (SH-6) Amalner To Sindkheda	AP25-AP26 (SH-31) Khargone To Kasrawad AP32-AP33 (SH-26) Khargone To Julwania AP55-AP56 (SH-1) Sangvi To Amba AP75-AP76 (SH-6) Walkheda To Sindkheda



26	Railway crossings	AP55-AP56 (RAILWAY LINE DOUBLE TRACK ELECTRIFIED BROAD GUAGE NARADANA STATION- HOL STATION)	AP69-AP70 (RAILWAY LINE DOUBLE TRACK ELECTRIFIED BROAD GUAGE HOL STATION- SINDKHEDA STATION)	AP74-AP75 (RAILWAY LINE DOUBLE TRACK ELECTRIFIED BROAD GUAGE NARADANA STATION-BETAWAD STATION)
27	Forest Detail	AP12-13 (1771 Mtr.)	AP18-20 (4524 Mtr.)	AP12-13 (3075 Mtr.)
		AP29-30 (455 Mtr.)	AP21-24 (4353 Mtr.)	AP13-14 (200 Mtr.)
		AP30-31 (1499 Mtr.)	AP24-25 (2557 Mtr.)	AP16-18 (1295 Mtr.)
		AP40-41 (2161 Mtr.)	AP40-41 (1143 Mtr.)	AP20-21 (2891 Mtr.)
			AP41-43 (3035 Mtr.)	AP21-23 (1360 Mtr.)
			AP43-44 (395 Mtr.)	AP38-39 (418 Mtr.)
			AP51-52 (2161 Mtr.)	AP39-40 (847 Mtr.)
				AP40-41 (1942 Mtr.)
				AP49-50 (1140 Mtr.)

Date : 14.11.2016  
Place : Khargone

Signature:   
Name in Block Letter: S.S. SHIRUR  
Designation: Project Head  
Office Seal:

