

GUJARAT ENERGY TRANSMISSION CORPORATION LTD.

Regd. Office: Sardar Patel Vidyut Bhavan, Race Course, VADODARA -07

Phone : (0265) 23230583-86 Fax No. (0265) 23380238 233823-5

Executive Engineer (Const) Construction Division Office, Navsari,
Kabilpore - 396424

Telephone No. (02637) 239943 Fax No. (02637) 236104

Corporate Identity No (CIN): U40100GJ1999SGC036018

Web: www.getcogujarat.com Email:

eeconstnavsari.getco@gebmail.com

Out.No. GETCO/CDNS/TECH/FCA-Kaprada/66KV line/42BC/3471 Dt. 22/7/2019

To,
The Deputy Conservator of Forest (South),
Jilla seva Sadan-2, 3rd Floor,
Tithal Road,
Valsad.

Sub:- Submission of **21.636 Hac.** Forest land proposal for Diversion for Forest Land proposal for forest clearance for 66KV LILO line for 66kv Jirval sub-station - **2.1690 Hec.** & 66KV LILO line for 66KV Nandgam sub-station-**7.137Hec.** and 66Kv Astol-Ghanveri line-**12.330Hec** with Dog conductor on D/C Panther Tower line to feed 66kv Jirval, Nandgam and Ghanveri sub-station under TASP scheme

Ref:- ON Line Registration no :- FP/GJ/TRANS/33806/2018 DT.25.05.2018

Respected Sir,

The Government of Gujarat has planned for establishment of various sub-station under 13th five year plan for this GETCO has planned to established 66 KV sub-station at village :-Jirval, Nandgam and Ghanveri Ta-Kaprada, District-Valsad during the year 2019-20 and also planned accordingly for erection of 66KV Dog line on D/C Panther Tower to feed proposed 66KV Jirval, Nandgam and Ghanveri sub-station for supply of uninterrupted and good quality power with better voltage regulation in surrounding area during preliminary survey carried out through alignment of proposed route, it is learnt that some of the line portions are felt in reserved forest under your jurisdiction to identify this PF-RF area required for further process to obtain approval from competent authority, the forest clearance proposal in prescribe proforma and Three Alternatatives Route in village map and we recommend final route no-One(1) For Saving Trees and Forest Land and approach and annexure is hereby submitted to you.

This is submitted for need full action for approval in the matter please.

Enclose:- As above in seven set

(P.N.PATEL)

Executive Engineer(Const.)
GETCO, Navsari

C.F.W.Cs. to

(1) S.E (TR) C.O GETCO, Navsari.

Copy to,

(1) D.E (E&M) GETCO, Vapi. For Follow up with forest department in this matter pl.

CHECK LIST FOR PROPOSALS FOR THE DIVERSION OF FOREST LANDS FOR NON-FOREST USE UNDER FOREST {CONSERVATION} ACT, 1980

Sr. No.	Name of the Document	To be provided by The User Agency (GETCO) / Forest Dept.	Page No
1.	Online registration number print out		1
2	Demand letter of the Project Authority	Provided.	2
3.	Main application form from part-I to V as prescribed in the rules under the Forest (Conservation) Act, 1980 (FCA) with all its columns duly filled up and signed by the competent authority with date, place and official seal. All the information in Part-I of form-A including item wise Breakup of the Forest area required must be given in the form itself by expanding the Columns.	Provided.	4
4.	Detail note on the project it must include the information regarding the number of villages and number of persons to be benefited from the project including employments generation.	Provided.	6
5.	Cost benefit analysis	Provided.	8
6	Gazette notification of the forest area concerned.		
7.	Statement showing the details of forest area involved i.e Survey no/Coupe no/Compartment no.etc and item wise break up of forest area proposed for diversion duly signed DCF (in the prescribe format).	Provided.	12
8.	Statement showing the details of non-forest area involved in the proposal.	Provided.	14
9.	Justification for locating the project in forest area to be submitted by user agency and countersigned by DCF.	Provided.	15
10.	Certificate for the minimum use of forest land to be submitted by the user agency giving details of area and trees involved alternatives examined and reasons for their rejection duly countersigned by DCF (in the prescribe format.)	Provided.	16
11.	Undertaking by user Agency to bear the cost of Compensatory afforestation duly counter signed by the DCF (in the prescribe format.)	Provided..	17
12.	Undertaking by user Agency to pay the net present Value (NPV) of the forest land	Provided.	18

	Involved duly countersigned by DCF(in the prescribe format.)		
13.	Undertaking of the user Agency to abide by any additional condition stipulated by the central /State government for the protection/conservation/development of forest & wildlife.	Provided.	19
14.	Status of environment & CRZ clearance under Environmental (Protection) Act. 1986 where ever required.	N.A.	20
15.	Resolution of gramsabha(other than linear project)and certified English translation and certificate of collector regarding FRA 2006 in the prescribed perform(As per Gol letter F.No-11-9/98-FC(pt.) Date.05.07.2013.	Provided.	21
16.	Species wise and Girth class wise enumeration list and abstract of tree(abstract to be given at the end of the list)standing on the forest area in question neatly typed or computerized and duly signed by DCF.		
17.	Site inspection report of the forest area involved in the project proposal by the DCF concerned or higher level forest officer in prescribed format (in the prescribed format).		
18.	Details of non-forest land /degraded forest area identified for compensatory afforestation Viz..Survey no/Compartment No/Khasra No/Khatoni No, Village ,Tehsil,District etc.along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours and GPS readings.	Provided.	22
19.	Details scheme for compensatory afforestation on identified non-forest area/degraded forest area. At prevalent wage rates duly signed by DCF and counter signed by the CCF/CF concerned The CA scheme must include all the technical details' of work schedule & total financial outlay.		
20.	Certificate from the DCF,that non forest land selected for compensatory afforestation is in a compact blocks and contiguous to forest areas or in closed proximity of forest areas and suitable from the management and protection point of view.		

21.	Suitability Certificate from Divisional Forests officer that the land identified for compensatory afforestation is suitable for raising plantation(in the prescribed format)..		
22.	Detail s of the work if any already completed without prior permission from Government of India(i.e Violation of Forest(Conservation) Act/guidelines.)		
23.	In case of Violation of Forest(Conservation) Act,1980 and/or guidelines, the details of the persons responsible for violation.	Provided.	33
24.	Certificate of Deputy conservator of Forest showing distance regarding Historic place/Archeological importance.		
25.	Certificate of Deputy conservator of Forest showing distance between forest area demanded for diversion and nearest Wild Life protected area in KM.(National park/Sanctuary/Conservation reserved/Community Reserved).		
26.	Certificate of User Agency and DCF regarding Court case.	Provided.	34
27.	Certificate of DCF. About over lapping.		
28.	Map of the project site/forest area demanded clearly showing forest boundaries and adjoining areas with their land use in district colours in 1:50000 or any suitable scale on original survey of India topo sheet or cadastral map.	Provided.	35
29.	Index map showing forest boundaries and a location map on a larger scale with land use of the area required duly signed by DCF/CF concerned.	Provided.	36
30.	Index map showing both forest area for diversion and area selected for compensatory afforestation	Provided.	37
31.	Cross section map showing present width/earlier diverted width(if any) and proposed expansion in case on linear diversion like road etc.	Provided.	
32.	DGPS map of forest area demanded for diversion (in case of linier diversion give few latlong. reading including starting and end points. In case of block diversion give lat long of polygon)	Provided.	38
33.	Lay out plan of project site approved by competent authority (for non linear projects)	N.A	
34.	Geo referenced digital map in shape file(For non linear diversion)	N.A	

35	Map showing alternate routes with different colours and justification of selection the proposed route (In case of Linear diversion).	Provided.	39
36	Information about No of tower to be erected within forest land and width of right of way for transmission line.	Provided.	40
37	Undertaking of user agency with countersign of DCF regarding tree cutting.	Provided.	41

For Gujarat Energy Transmission Corp. Ltd.

P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Check list No-3
(Online-FORM-A, PART-I-B1)

FORM-A
Form for seeking prior approval under section-2 of the proposals and by the
State Government and other authorities.

PART-I

(To be filled up by the user agency)

Sr. No	Project Details	
1	(i) Short narrative of the proposal and project/scheme for which the forest land is required.	<p>Erection of 66KV Line with Dog conductor on D/C Panther Tower line to 66kv Jirval,Nandgam and Ghanveri sub-station</p> <p>Of <u>village- of 66KV Jirval line</u> are Kajli, Vard Talat, Bhandarkatchh and Jirval</p> <p><u>Village of 66Kv Nandgam line</u> are Dabkhal and Nandgam</p> <p><u>Village of 66Kv Ghanveri line</u> are Astol ,Pendhardevi ,Eklera, Bamanwad , Terichikhali, Ghanveri</p> <p>All villages of Ta-Kaprada, Dist- Valsad</p>
	(ii) Map showing the required forest land boundary of adjoining forest on a 1:50,000 scale map	Refer Annexures 4&5.
	(iii) Cost of the project	<p>Jirval-650 Lacs Nandgam-715 Lacs Ghanveri-925 Lacs. Total -2290 Lacs.</p>
	(iv) Justification for locating the project in forest area	The final route has been selected so as to technically it is unique feasible shortest route.
	(v) Cost benefits analysis (to be enclosed)	Refer annexure 12A, 12B, 12C
	(vi) Employment likely to generated.	Basically this line is meant to line shall boost up all sector of society by eliminating power cut/load shedding and solve low voltage problem.

2	Purpose wise breakup of the total land required.	<p>Transmission route cover the reserved forest land is approximately as Under</p> <p>(1) In Jirval line - 1205 Meter length we required right of way 18 Meter (18 X 1205) = 21690 sq.meters i.e-2.169 Hac</p> <p>(2) In Nandgam line - 3965 Meter length we required right of way 18 Meter (18 X 3965) = 71370 sq.meters i.e-7.137 Hac</p> <p>(3) In Ghanveri line - 6850 Meter length we required right of way 18 Meter (18 X 6850) = 123300 sq.meters i.e-12.330 Hac</p> <p>Total land Required- 21.636 Hac.</p> <p>in 66KV Dog line We proposed diversion of forest land for 66KV Transmission line which will be laid above ground as per IE rules requirement to ensure safety</p>
3.	Details of displacement of people due to project id any.	
	(1) Number of families.	None
	(2) Number of schedule cast & schedule tribe families.	No
	(3) Rehabilitation plan (to be enclosed)	N/A
4.	Whether clearance under environment protection Act 1986 required (Yes/No)	N/A
5.	Undertaking to bear the cost of raising and maintenance of Compensatory a forestation 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)	Annexure 8B
6.	Details of certificates/documents enclosed as required under the instruction	

For Gujarat Energy Transmission Corp. Ltd.

P.N.PATEL

Executive Engineer (Const.)

GETCO, Navsari

Check list No-4

(Online-FORM-A ,PART-I D(i))

DETAIL NOTE ON ROJECT FOR JUSTIFICATION FOR AREA SELECTION

In consideration of the requirements of environment parameter, construction methodologies to be adopted for different terrain encountered en-route, design & engineering factor, availability of logistic support during construction, operation & maintenance of line, various feasible route were identified by M/s. Gujarat Energy Transmission Corporation Ltd. based on system study, desk review, topographic –map, Forest map, existing publication materials, walkover survey augmented by GPS. During route alignment all possible efforts are made to avoid the forest area involvement completely or to keep it to the barest minimum. Moreover, in Protected / Reserved forest area trees are felled only in below each conductor to facilitate stringing. On completion of construction only one such strips is maintained for O & M purpose. And direct or indirect approximaly 35 villages approximately 4.5 lacs people can get benefit from the project. The Details of 21.636 Hac. Forest land proposal for Diversion for Forest Land proposal for forest clearance for 66KV LILO line for 66kv Jirval sub-station - 2.1690 Hec, & 66KV LILO line for 66KV Nandgam sub-station-7.137Hec. and 66Kv Astol-Ghanveri line-12.330Hec with Dog conductor on D/C Panther Tower line to fed 66kv Jirval,Nandgam and Ghanveri sub-station under TASP scheme

Factors considered

- i) The route of the proposed transmission line does not infringe any human habitation.
- ii) Any monument of cultural or historical importance is not affected by the route of the transmission line.
- iii) The proposed route of transmission line does not create any threat to the survival of any community with special reference to Tribal Community.
- iv) The proposed route of transmission line does not affect any public utility services like playgrounds, schools, other establishments etc.
- v) The line route does not pass through any sanctuaries, National Park etc.
- vi) The line route does not infringe with area of natural resources.

Sensitive areas and settlements at execution stage

- 1 As a rule, alignments are generally kept 10-15 kM away from major towns, whenever possible, making a provision for future urban expansion.
- 2 Similarly, forests are avoided to the extent possible, and when it is unavoidable, a route is selected in consultation with the local Divisional Forest Officer, that causes minimum damage to existing forest resources.
- 3 Selected Alignments do not infringe wetlands and unstable areas for both financial and environmental reasons. Additional care has to be taken to avoid National parks and sanctuaries and any other forest area inhabited by wild life.

Keeping above factors in mind three alternative routes are proposed. As such , different alternatives were studied with the help of Govt. published data like Forest atlas, Survey

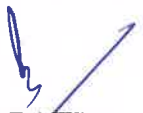
of India topo maps, satellite imageries etc. to arrive at most optimum route which can be taken up for detailed survey and assessment of environmental and social impacts for their proper management.

The details of final approved route

Sr. no.	Description	Final Route
1	Line length	5.665+6.425+12.495 Km.= 24.585KM
2	Class of Forest (R.F. / P.F.)	R.F.: - 21.636 Hectors P.F.: - Nil
3	Transportation & Maintenance	100 %
4	Hilly Terrain Area	Partially Hilly
5	Power line Crossing	Nil,
6	Railway Line Crossing	Nil
7	Minor River Crossing	Total : - 08 River Crossing
8	Plain Terrain	35 %
9	Undulated Land	NIL
10	Creek Area	NIL
11	Marshy Area	NIL
12	Special Tower (FDN)	NIL
13	Population	Avoided
14	Major Cities	Avoided
15	Densely Populated Area	NIL
16	Air Port	NIL
17	Sanctuary Area	NIL
18	Defense Area (Military Areas)	NIL
19	Major Road Crossing	Nil
20	Major Canal crossing	Nil

The final route selected & approved by GETCO is ideal, feasible & shortest.


For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Annexure-12-A**Check list No -5****CATEGORY OF PROPOSAL FOR WHICH COST BENEFIT ANALYSIS APPLICABLE**

Sr No.	Nature of Proposal	Applicable/not applicable	Remarks
1.	All categories of proposals involving forest land up to 7.5726 hectares in plains and up to 14.0634 hectares in hills.	Applicable	
2.	Proposal for defense installation purposes and oil prospecting (prospecting only)	Not applicable	
3.	Habitation, establishment of industrial units, tourist lodges/complex and other building construction	Not applicable	
4.	All other proposals involving forest land more than 7.5726 hectares in plains and more than 14.0634 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydel projects mining activity, railway lines, location specific installations like micro-wave stations, auto repeater canters, T.V. towers etc.	Not applicable	
a).	A map on scale showing forest areas / forest boundaries.	Refer Annexure Drawings.	
b).	Proposed forest land required for non forest purpose.	Land cost will be paid for involved forest land of 21.636 Hectors.	
c).	Land for the road already constructed	N/A	
d).	Total length of the road passing though the forest out of the length given under (c) above.	N/A	
e).	Was an alternative land avoiding the forestland explored?	Refer Annxeure-9	
f).	Similar details may be given for new railway line	N/A	

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
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GETCO, Navsari

ANNEXURE-12-B**PARAMETER FOR EVALUATION LOSS OF FORESTS NATURE OF PROPOSAL**

Sr. No	Parameters	Roads Tr. Lines & Railway lines	Minor irrigation projects, quarrying of stones/ metals	Medium & major irrigation, hydro electric, large mining & other misc. projects.
1.	Loss of value of timber, fuel wood and minor forest produce on an annual basis, including loss of man-hours per annum of people who derived livelihood and wages from the harvest of these commodities.	To be determined by forest department		To be determined by forest department
2.	Loss of animal husbandry productivity, including loss of fodder	N.A.		N.A.
3.	Cost of human resettlement	N.A.		N.A.
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways etc.) on forest land, or which would require forest land if these facilities were diverted due to the project.	N.A.		N.A.
5.	Environmental losses: (soil erosion, effect on hydrological cycle, wildlife habitat, microclimate upsetting of ecological balance).	N.A / To be Determined by Forest Department		N.A / To be Determined by Forest Department
6.	Suffering to outsets.	N.A.		N.A.

For Gujarat Energy Transmission Corp. Ltd.

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ANNEXURE-12-C
COST BENEFITS ANALYSIS – FINANCIAL & SOCIAL BENEFITS

Electricity is basic human need. It is a critical infrastructure on which socio economic development of country depends. Recognizing that electricity is one of the key-drivers for rapid economic growth, the Central Government has notified 'The National Electricity Policy' with smart objective '**Power for all**' by year 2012. It ensures the accelerated development of power sector, reliable & quality power at reasonable rates to consumers.

In order to meet the objectives, set above, comprehensive plan for addition in power generating capacity along with associated transmission network has been formulated by GOG. As a part of this comprehensive plan, GOG has decided to established more and more sub station in tribal area for this 66KV Jirval , Nandgam ,and Ghanveri sub-station is planned to established during the year 2019-20. With its associated line from existing 66KV Line and sub station to proposed 66KV Jirval, Nandgam and Ghanveri sub-station having total line length are 5.665KM Jirval)+6.425KM (Nandgam)+12.495KM (Ghanveri) so total 24.585 Km.


This Project will considerably transform the socio-economic status of the people, as there is potential for direct employment generation to the extent of 1000 persons. Over & above, this additional generation shall fulfill the power requirement of different projects being set up by private industrial groups particularly in south Gujarat tribal area. Hence there will tremendous chances of indirect employment generation. This in turn will act as stimulus & boost up our economic growth. Ultimately, all sectors of society including Central & state government shall be benefited either directly or indirectly.

Sr.No	Parameters	
1.	Increase in productivity attributive to Specific project.	Erection of 66KV Line with Dog conductor on D/C Panther Tower line to 66kv Jirval, Nandgam and Ghanveri sub-station
2.	Benefit to economy	Industrial growth due to infrastructure development, export Promotion, foreign exchange earnings, direct & Indirect employment generation, agricultural Sector development through enhanced Irrigation facilities.
3	No. of population benefited	South Gujarat, various projects, GIDC industrial Pockets, agricultural sector of Gujarat state.

For

4.	Employment potential	Direct 1000, indirect tremendous potential, difficult to quantify
5.	Cost of acquisition facilities on Non-Forest Land whether feasible.	Not feasible.
6.	Loss of Agriculture & Animals Husbandry Production due to Diversion of Forest land	NIL
7.	Cost of rehabilitation of the Displaced Persons as different from compensatory Amounts given for displacement	No displacement and consequent rehabilitation
8.	Cost of supply of free wood to workers Residing in or near forest area during the period of construction.	N/A

Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

ANNEXURE: - 2 B

(1) BREAK – UP OF RESERVED FOREST LAND FOR 66KV LILO FROM 66KV KAKADKOPAR -KAPRADA LINE FOR 66KV JIRVAL SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectare)
Valsad	Kaprada	Kajli	147			125	18	2250	0.225
Valsad	Kaprada	Varoli Talat	-			-	-	-	-
Valsad	Kaprada	Bhandarkatchh	273			495	18	8910	0.891
Valsad	Kaprada	Jirval	437			585	18	10530	1.053
								Total	2.169

(2) BREAK – UP OF RESERVED FOREST LAND FOR 66KV LILO FROM 66KV KAPRADA-SAHUDA LINE FOR 66KV NANDGAM SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectare)
Valsad	Kaprada	Dabkhal	395			2245	18	40410	4.041
Valsad	Kaprada	Nandgam	340			1720	18	30960	3.096
								Total	7.137

(3) BREAK – UP OF RESERVED FOREST LAND FOR 66KV ASTOL-GHANVERI LINE FOR 66KV GHANVERI SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectare)
Valsad	Kaprada	Astol	265			330	18	5940	0.594
			236			625	18	11250	1.125

			247			95	18	1710	0.171
			33			345	18	6210	0.621
Valsad	Kaprada	Pendhardevi	127			1955	18	35190	3.519
Valsad	Kaprada	Eklera	104			1290	18	23220	2.322
Valsad	Kaprada	Bamanwad	84			295	18	5310	0.531
			137			630	18	11340	1.134
Valsad	Kaprada	Terichikhali	212			710	18	12780	1.278
			175			95	18	1710	0.171
			207			150	18	2700	0.27
			208			250	18	4500	0.45
Valsad	Kaprada	Ghanveri	75			45	18	810	0.081
			91			35	18	630	0.063
								Total	12.330

**TOTAL RESERVED FOREST AREA: - (1) 66KV Line for Jirval- 2.169 Hector
(2) 66KV Line for Nandgam- 7.137 Hector
(3) 66KV Line for Ghanveri- 12.330 Hector**

Total =2.169+7.137+12.330 = 21.636 Hectors.

For Gujarat Energy Transmission Corp. Ltd.

P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Statement giving details of non-forest area involved.

Not applicable

For Gujarat Energy Transmission Corp. Ltd.



P.N.PATEL
Executive Engineer (Const.)

GETCO, Navsari

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST LAND

In consideration of the requirements of environment parameter, construction methodologies to be adopted for different terrain encountered en-route, design & engineering factor, availability of logistic support during construction, operation & maintenance of line, various feasible route were identified by M/s. Gujarat Energy Transmission Corporation Ltd. based on system study, desk review, topographic – map, Forest map, existing publication materials, walkover survey augmented by GPS. During route alignment all possible efforts are made to avoid the forest area involvement completely or to keep it to the barest minimum. Moreover, in Protected / Reserved forest area trees are felled only in below each conductor to facilitate stringing. On completion of construction only one such strips is maintained for O & M purpose. 66KV Jirval, Nandgam and Ghanveri sub-station for supply uninterrupted and good quality power with better voltage regulation in surrounding area

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

**Certificate for the minimum use of forest land and justification for
locating the project on forest land.**

Keeping in view of technical aspects this is to certify that there is no any alternate land available to installation of For Erection of 66KV LILO line for Jirval, Nandgam, and 66KV Astol-Ghanveri Dog Line on D/C Tower line for 66KV Jirval, Nandgam and Ghanveri Sub-Station. at village-Jirval, Nandgam and Ghanveri - Ta- Kaprada Dist-Valsad , almost care was taken to minimize the impact on the natural environment including forest.

For Gujarat Energy Transmission Corp. Ltd.

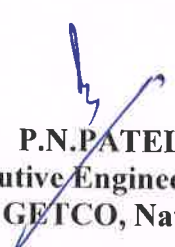

P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

**UNDERTAKING TO PAY COST OF COMPENSATORY
AFFORSTATION**

Certified that the Gujarat Energy Transmission Corporation Limited agrees to make the payments of forest land cost involves for non forest purpose as per prevailing forest rules & regulation.

The applicant is also willing to pay the expenditure to forest department for trimming / felling of trees & transportation of same to the nearest sale depot.

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Check list No-12

Undertaking for payment of NPV for Government / Public welfare Project

The Government of India has vide their number 5-1/98-FC (Pt-II) dated 19th December, 2005 directed that Government project like hospitals, non-commercial government ventures like, school, rain water have sting, tankes, sewer lines, village roads, which are meant for public welfare may be allowed after taking an Undertaking from the user agency that in case it is finally decided by the Supreme Court such projects are not exempt from payment of NPV, the user agency will pay the amount of NPV as determined & ordered by the supreme court.

Accordingly, we hereby undertaking to pay the amount of NPV as determined & ordered by the Supreme Court in case it is finally decided by the Supreme Court such projects are not exempt from payment of NPV.

Signed in the Presence of


Dy. Conservator of Forest
Valsad (North).


P.N. PATEL
Executive Engineer (Const.)
GETCO Navsari

UNDERTAKING TO PAY NPV

This is to certify that Gujarat Energy Transmission Corp. Ltd. Hereby agree to abide by all the conditions regarding payment of NPV of the **21.636** Hector. Forest land diverted for non forest purpose as per the Supreme Court order dated. 30.12.02 & also gives undertaking that in case of upward revision of rates of NPV as per the order of the Hon'ble Supreme Court and / or as per the order of the Government, the same will be paid by us.


For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

UNDERTAKING TO ABIDE BY ANY ADDITIONAL CONDITION

Certified that the Gujarat Energy Transmission Corporation Limited agrees to abide by any additional condition stipulated by the central /state government for the protection/conservation/development of forests and wildlife.


For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Certificate from the Chief Secretary regarding non availability of non-forest land for compensatory a forestation (Wherever required)

Not Applicable

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Check list No-22

Details of the works, if any already completed without prior permission from government of India (i.e. violation of forest (Conservation) Act/Guidelines).

No work has been done by the user agency

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

Check list No-23

In case of violation of forest conservation Act 1980 and/or guidelines, the details of the persons responsible for the violation.

Not Applicable

For Gujarat Energy Transmission Corp. Ltd.



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Executive Engineer (Const.)
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Check List No-26

CERTIFICATE

It hereby certify that no court case is pending regarding propos diversion of **21.636 Hac.** Forest land in favour of Gujarat Energy Transmission Corporation Limited for installation of Erection of 66KV Dog Line on D/C Panther Tower line for 66KV Jirval, Nandgam and Ghanveri Sub-Station. at village-Jirval, nandgam and Ghanveri Taluka-Kaprada, District – Valsad.

For Gujarat Energy Transmission Corp. Ltd.


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Check List No-36

NOS OF TOWER AND RIGHT OF WAY

(1) BREAK – UP OF RESERVED FOREST LAND FOR 66KV LILO FROM 66KV KAKADKOPAR -KAPRADA LINE FOR 66KV JIRVAL SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectai e)
Valsad	Kaprada	Kajli	147			125	18	2250	0.225
Valsad	Kaprada	Varoli Talat	-			-	-	-	-
Valsad	Kaprada	Bhandarkatchh	273			495	18	8910	0.891
Valsad	Kaprada	Jirval	437			585	18	10530	1.053
								Total	2.169

(2) BREAK – UP OF RESERVED FOREST LAND FOR 66KV LILO FROM 66KV KAPRADA-SAHUDA LINE FOR 66KV NANDGAM SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectai e)
Valsad	Kaprada	Dabkhal	395			2245	18	40410	4.041
Valsad	Kaprada	Nandgam	340			1720	18	30960	3.096
								Total	7.137

(3) BREAK – UP OF RESERVED FOREST LAND FOR 66KV ASTOL-GHANVERI LINE FOR 66KV GHANVERI SUB-STATION WITH DOG LINE.ON D/C PANTHER TOWER

District	Taluka	Village	Sur. No	F.S .No	Compt. No	Line Width Clearance (Mtr.)	Right of Way Clearanc e (Mtr.)	Total Area For Clearanc e (Sq. Mtr.)	Total Area of R.F. (Hectai e)
Valsad	Kaprada	Astol	265			330	18	5940	0.594
			236			625	18	11250	1.125
			247			95	18	1710	0.171

			33			345	18	6210	0.621
Valsad	Kaprada	Pendhardevi	127			1955	18	35190	3.519
Valsad	Kaprada	Eklara	104			1290	18	23220	2.322
Valsad	Kaprada	Bamanwad	84			295	18	5310	0.531
			137			630	18	11340	1.134
Valsad	Kaprada	Terichikhali	212			710	18	12780	1.278
			175			95	18	1710	0.171
			207			150	18	2700	0.27
			208			250	18	4500	0.45
Valsad	Kaprada	Ghanveri	75			45	18	810	0.081
			91			35	18	630	0.063
								Total	12.330

TOTAL RESERVED FOREST AREA:

SR.NO	NAME OF LINE	RESERVED FOREST AREA IN HEC.	LENGTH OF LINE IN FOREST LAND IN METERS	NOS OF TOWER IN FOREST LAND	TOTAL LENGTH OF LINE IN METERS
1	66KV Line for Jirval	2.169	1205	4	5665
2	66KV Line for Nandgam	7.137	3965	11	6425
3	66KV Line for Ghanveri	12.330	6850	25	12495
	TOTAL	21.636	12020	40	24585

TOTAL RESERVED FOREST AREA: - 21.636 Hector
TOTAL TOWER TO BE ERECTION IN FOREST LAND:- 40 NOS
TOTAL LENGTH OF LINE IN FOREST LAND :- 12.020 KM

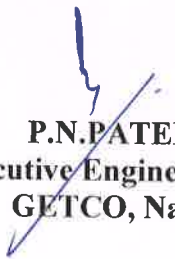
For Gujarat Energy Transmission Corp. Ltd.

P.N.PATEL
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GETCO, Navsari

UNDERTAKING FOR TREE CUTTING

The cutting of trees shall be limited to the forest area where towers are to be erected. No tree shall be cut, only branch cutting shall be resorted to where ever necessary, under the right of way. The marking list of trees has been prepared accordingly.

For Gujarat Energy Transmission Corp. Ltd.


P.N.PATEL
Executive Engineer (Const.)
GETCO, Navsari

(1) Comparative Statement of Alternatives. For FCA of 66KV LILO line for Jirval sub-station with Dog conductor on D/C Panther Tower line.

Village	Taluka	District		Total Hac(Forest+ Non forest)	Total Hac. Of Forest Land	Total Hac. Of Non- Forest Land	Area in Hectors.	Remarks
Kajli	Kaprada	Valsad	Route-1 (Final)	1.0620	0.2250	0.8370	1.0620	
			Route-2	1.2170	0.3500	0.8670	1.2170	
			Route-3	1.6462	0.4102	1.2360	1.6462	
			Route-4	1.9820	0.0000	1.9820	1.9820	
Varoli Talat	Kaprada	Valsad	Route-1 (Final)	3.3750	0.0000	3.3750	3.3750	
			Route-2	3.8650	0.0000	3.8650	3.8650	
			Route-3	4.1230	0.0000	4.1230	4.1230	
			Route-4	3.9865	0.0000	3.9865	3.9865	
Bhandarkatchh	Kaprada	Valsad	Route-1 (Final)	2.7450	0.8910	1.8540	2.7450	
			Route-2	2.2617	1.3260	0.9357	2.2617	
			Route-3	1.9320	0.9983	0.9337	1.9320	
			Route-4	2.8240	1.6890	1.1350	2.8240	
Jirval	Kaprada	Valsad	Route-1 (Final)	3.0150	1.0530	1.9620	3.0150	
			Route-2	3.2360	1.5980	1.6380	3.2360	
			Route-3	3.5480	1.6590	1.8890	3.5480	
			Route-4	2.9020	0.9370	1.9650	2.9020	
Total of Route No-1 (Final)				2.1690		8.0280	10.1970	66KV LILO for Jirval sub-station Dog conductor on D/C Panther Tower (Total Length-5.665KM) and Forest Length-1.205KM (with 04 Nos Tower)
Total of Route No-2				3.2740		7.3057	10.5797	
Total of Route No-3				3.0675		8.1817	11.2492	
Total of Route No-4				2.6260		9.0685	11.6945	

(2)Comparative Statement of Alternatives. For FCA of 66KV LILO line for Nandgam sub-station with Dog conductor on D/C Panther Tower line.								
Village	Taluka	District		Total Hac(Forest+ Non forest)	Total Hac. Of Forest Land	Total Hac. Of Non-Forest Land	Area in Hectors.	Remarks
Dabkhal	Kaprada	Valsad	Route-1 (Final)	6.4350	4.0410	2.3940	6.4350	
			Route-2	7.4560	4.8690	2.5870	7.4560	
			Route-3	7.3290	4.9680	2.3610	7.3290	
			Route-4	7.8730	4.9800	2.8930	7.8730	
Nandgam	Kaprada	Valsad	Route-1 (Final)	5.1300	3.0960	2.0340	5.1300	
			Route-2	6.3940	3.8560	2.5380	6.3940	
			Route-3	6.6816	3.9879	2.6937	6.6816	
			Route-4	7.0120	3.8890	3.1230	7.0120	
Total of Route No-1 (Final)					7.1370	4.4280	11.5650	66KV LILO for Nandgam sub-station Dog conductor on D/C Panther Tower (Total Length-6.425KM) and Forest Length-3.965KM (with 11 Nos Tower)
Total of Route No-2					8.7250	5.1250	13.8500	
Total of Route No-3					8.9559	5.0547	14.0106	
Total of Route No-4					8.8690	6.0160	14.8850	

(3)Comparative Statement of Alternatives. For FCA of 66KV Astol-Ghanveri line for 66KV Ghanveri sub-station with Dog conductor on D/C Panther Tower line.								
Village	Taluka	District		Total Hac(Forest+ Non forest)	Total Hac. Of Forest Land	Total Hac. Of Non- Forest Land	Area in Hectors.	Remarks
Astol	Kaprada	Valsad	Route-1 (Final)	4.5360	2.5110	2.0250	4.5360	
			Route-2	5.1840	2.8190	2.3650	5.1840	
			Route-3	5.2923	2.8800	2.4123	5.2923	
			Route-4	5.3570	2.7890	2.5680	5.3570	
Pendhardevi	Kaprada	Valsad	Route-1 (Final)	4.4730	3.5190	0.9540	4.4730	
			Route-2	5.1446	3.8236	1.3210	5.1446	
			Route-3	5.2995	3.9650	1.3345	5.2995	
			Route-4	5.4156	3.9806	1.4350	5.4156	
Eklera	Kaprada	Valsad	Route-1 (Final)	3.2490	2.3220	0.9270	3.2490	
			Route-2	3.9640	2.6350	1.3290	3.9640	
			Route-3	4.2840	2.8410	1.4430	4.2840	
			Route-4	4.3090	2.9360	1.3730	4.3090	
Bamanwada	Kaprada	Valsad	Route-1 (Final)	3.7620	1.6650	2.0970	3.7620	
			Route-2	4.1763	1.7890	2.3873	4.1763	
			Route-3	4.3928	1.8960	2.4968	4.3928	
			Route-4	4.6230	1.9650	2.6580	4.6230	
Terichikhali	Kaprada	Valsad	Route-1 (Final)	4.2030	2.1690	2.0340	4.2030	
			Route-2	5.1420	2.4890	2.6530	5.1420	
			Route-3	5.4050	2.5320	2.8730	5.4050	
			Route-4	5.6514	2.6950	2.9564	5.6514	
Ghanveri	Kaprada	Valsad	Route-1 (Final)	2.2680	0.1440	2.1240	2.2680	
			Route-2	3.0074	0.3624	2.6450	3.0074	
			Route-3	3.3485	0.4785	2.8700	3.3485	
			Route-4	2.9722	0.6592	2.3130	2.9722	

Total of Route No-1 (Final)	12.3300	10.1610	22.4910	66KV 66KV Astol-Ghanveri S/C Dog conductor on D/C Panther Tower (Total Length- 12.495KM) and Forest Length-6.850KM (with 25 Nos Tower)
Total of Route No-2	13.9180	12.7003	26.6183	
Total of Route No-3	14.5925	13.4296	28.0221	
Total of Route No-4	15.0248	13.3034	28.3282	

Comparative Statement of Alternatives. For FCA Total summary of FCA proposal for 66KV Jirval,Nandgam,Ghanveri Line -21.6360 Hec				
Route No	Total Hac. Of Forest Land	Total Hac. Of Non- Forest Land	Area in Hectors.	Remarks
Total of Route No-1 (Final)	21.6360	22.6170	44.2530	Remarks :- Route No-2,3,4 are has more trees and also technically not feasible for tower spotting and Electrically
Total of Route No-2	25.9170	25.1310	51.0480	ground clearances per
Total of Route No-3	26.6159	26.6660	53.2819	indian Electrical rules due to heavy uneven terrian and
Total of Route No-4	26.5198	28.3879	54.9077	not apporachable due to big Khin -kotar and residence.

Executive Engineer(Const)
Division office Kabilpore ,GETCO,
Navsari