

Gujarat Government Gazette Notification

The following documents are attached herewith

- |     |  |    |     |
|-----|--|----|-----|
| (1) | GR quoted  | -- | NIL |
| (2) | Order to carry out the work                      | -- | NIL |
| (3) | Certified English copy of the Gujarati documents | -- | NIL |



Deputy Executive Engineer  
Gulf of Khambhat Development Project (W.R)  
Project Implementation Unit-2  
Vadodara



Executive Engineer  
Gulf of Khambhat Development Project (W.R)  
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Vadodara

## Statement Showing the Details of Approach Road Passes through Forest Area

1	Authority	Kalpasar Department, N.W.R.W.S. and K. department, Block No. 8/7, New Sachivalaya, Gandhinagar.
2	Name of Project	Construction of Barrage, Approach Road and Flood Protection works across river Narmada, Near Village Bhadbhut, District Bharuch. Brief note of project is enclosed as Annexure-4.
3	Road embankment Particulars	A six lane road embankment for the Approach roads of Bhadbhut Barrage for connecting barrage to Hansot- on the left bank and 25 km from Dahej on Bharuch- Dahej road on right bank
4	Forest land requirement	
	Forest area/Alia Bet Ta: Vagara Survey No. 1	A road alignment passes through the barran / water logged forest area. The area required for six lane road construction is 60 m width in 2.51 km length. i.e. 15.10 ha and Area coming under FPE and Submergence is 36.80 ha. Thus, Total 51.90 ha.
	Survey No. 379 Utaraj Village, Ta: Hansot	The area required for FPE construction and Submergence is 135.06 ha.
	Total Forest area requirement	186.96 ha. Say 187.00 ha. (Out of total 4788.9490 ha. Forest Land in this region.)
	No. of villages affected	NIL
5	Project cost including land acquisition	Rs. 4336.944 Crore (Annexure 7B)
6	Program for completion	2020-21



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# Annexure-7A

## Total Forest Land in this Area as per Revenue Record

District	Taluka	Village	Account No.	Survey No.	Area in Ha	Type of Land
Bharuch	Vagra	Aliabet	1	1	4653.8890	Forest
				<b>SubTotal</b>	<b>4653.8890</b>	
Bharuch	Hansot	Utaraj	379	379	135.0600	Forest
				<b>SubTotal</b>	<b>135.0600</b>	
				<b>Total</b>	<b>4788.9490</b>	



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## Annexure-7B

### Project Cost including Land acquisition

Sr. No.	Particular	Cost Rs. in Crores
1	Barrage with top bridge	2516.284
2	Road embankment with structure, Flood Protection Embankment (Both Banks) 24 km	1557.88
3	Channel Remolding work, Land acquisition (2011 Jantri Rate) Land payment, mangroves etc.	262.78
	Total	4336.944



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## Statement Showing the Details of the Non-Forest Area Involved

Non Forest Area: 2131.6965 ha (as below statement)

## (A) APPROACH ROAD

LEFT SIDE ROAD ALIGNMENT						
Sr No	Village	Survey No.	Area of Survey nos Ha.Sq.m.	Land to be Acquired in Ha.	Type of Land	Remark
<b>(A) Private Land</b>						
1	Utraj	16/A/1/1	4.79.04	1.0024	Private	
2	Utraj	17	0.90.00	0.2020	Private	
3	Utraj	22/A	3.35.00	0.6440	Private	
			<b>Total</b>	<b>1.8484 Ha.</b>		
<b>(B) Government Land</b>						
1	Utraj	274/B	10.98.00	0.3195	Waste Land	
2	Utraj	274/A	4.38.00	1.2259	Waste Land	
3	Utraj	272/B	5.63.00	1.4641	Waste Land	
4	Utraj	271/A	10.52.00	1.4917	Waste Land	
5	Utraj	268	11.38.00	1.5669	Waste Land	
6	Utraj	267	7.15.00	0.7045	Waste Land	
7	Hasot	106/5	14.49.79	0.7849	Waste Land	
8	Hasot	106/4	12.64.30	1.5426	Waste Land	
9	Hasot	106/3	8.44.30	1.3203	Waste Land	
10	Hasot	106/2	7.49.68	0.1392	Waste Land	
11	Utraj	Bin Numbari Gam Tal & 16/A/1/2	1.01.00	0.2315	Govt. Land	
12	Hasot	101	97.02.38	30.0000	Waste Land	Required for construction activity and administration offices.
13	Hansot	Road	--	0.9583	Govt. Land	

14	Hansot	Vanki Khadi	--	1.8828	Govt. Land	
15	Hansot	100	59.4041	1.2371	Govt. Land	
16	Hansot	102	355.9651	12.0966	Govt. Land	
17	Hansot	104/A/1/1/A/1/A/1	53.0649	1.0836	Govt. Land	
			<b>Total</b>	<b>58.0495 Ha.</b>		
<b>RIGHT SIDE ROAD ALIGNMENT</b>						
1	PCPIR area	On right bank, the road alignment passes through the PCPIR area. The area required for six lane road construction is 60m width in 6.48 km length. i.e. 31.7886 ha and the acquisition for this area will be carried out by PCPIR authorities				
<b>Abstract</b>						
		Waste Land (L.S.)	58.0495			
		PRIVATE (L.S.)	1.8484			
		PCPIR Land (R.S.)	31.7886			
		<b>TOTAL (A)</b>	<b>91.6865 Ha.</b>			

**(B) FLOOD PROTECTION EMBANKMENT**

1	Left Bank	Govt. Land	983.4835		
		Private Land	881.2316		
2	Right Bank	Govt. Land	57.9209		
		Private Land	117.3740		
		<b>TOTAL (B)</b>	<b>2040.0100 Ha.</b>		
		<b>GRAND TOTAL(A+B)</b>	<b>2131.6965 Ha.</b>		



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### Justification for Road Alignment Selection

In consideration of the requirement of Environmental parameters/ construction methodologies to be adopted for different terrain encountered en-route, design and engineering factors, availability of logistic support during construction, operation and maintenance of road, various feasible routes were identified ,based on desk study of relevant topographic maps of Survey of India.

The study was subsequently supplemented with field reconnaissance and data collection along the feasible routes finally the optimum route was arrived at after analyzing the various data and conducting in depth study of topographic maps based on field data.

#### Methodology of selection of alignment

Relevant topographic maps along the various alternative alignment routes were identified. After conducting a detailed desktop study of the alternative routes on the topographic sheet the feasible routes were identified. This was subsequently supplemented with route reconnaissance data collection along the feasible route for arriving at the optimum route.

#### Factors considered.

While identifying the various alternatives for selection of the optimum route following factors were considered.

1. Road alignment has been finalized in such a way that minimum forest land will be utilized as well as tree cutting will be avoided.
2. Compliance with environmental regulation.
3. Safety of people and property.
4. Shortest possible length.
5. Minimum number of curves.
6. Favorable ground profile for road embankment.

7. Accessibility to road route during construction maintenance and operation.
8. Avoidance of mining protected and reserved forest archaeological and other sensitive areas.
9. Avoidance of unstable ground feature.
10. Minimizing rail, pipe line, rivers, and flood prone areas.
11. Avoidance of rocky stretches.
12. Flexibility for future expansion.

Considering the above parameters, suggested following three alternative alignments:

#### Alternate – 1

The alignment is just 2.0 km downstream of Bhadbhut village.

#### Alternate - 2

This alternate alignment is 3.650 km downstream of Bhadbhut village and 1.650 km downstream of Alignment No.1. The alignment is very close to village Kasva-Samni.

#### Alternate - 3

This alternate alignment is identified at 5.150 km downstream of Bhadbhut village, 3.150 km downstream of Alignment No.1 and 1.50 km D/S of Alignment No. 2.

#### Comparison of Identified Alignments

Sr No	Criteria considered	Alternate-1 Alignment	Alternate-2 Alignment	Alternate-3 Alignment
1.	Location Village	2.0 km d/s of Bhadbhut	3.65 km d/s of Bhadbhut (near to Kasva-Samni)	5.150 km d/s of Bhadbhut
2.	River gorge width available (Bank to Bank )	906.39 m.	1404.55 m	1708 m.
3.	Cross section details- Channel position Deepest bed level Average bed level	  (-) 7.00 m (-) 2.3 m	  (-) 3.10 m (-) 1.10 m	  (-) 3.95 m (-) 0.60 m



Sr No	Criteria considered	Alternate-1 Alignment	Alternate-2 Alignment	Alternate-3 Alignment
	Channel bed width	779 m	1050 m	1550 m
4.	Storage capacity of the reservoir	325.0 MCM	341.5 MCM	599.059 MCM
5.	Length of approach road embankment.(km)	11.713	12.366	14.620
5A	Left bank approach (km)	7.032	7.121	7.29
5B	Right bank approach (km)	4.681	5.245	6.48
6.	Land required for approach embankment	105 ha	111 ha	83 ha
	Left bank	63 ha	64 ha	44ha
	Right bank	42 ha	47 ha	39ha
7.	A.C. / T.C. Area	A.C. Private land T.C. in Govt. land	Govt. land	Govt. land
8.	Encroachment in forest area in m	1122	623	320
9.	Vicinity of villages and existing pipelines	Bhadbhut village 2.0 km in u/s. Various high pressure Gas pipe lines, i.e. VBPL Reliance, GSPL, BJPL & BPPL Pipeline, IOCL (AHPL), GIL Gas pipe lines are on u/s within 500 m.	Kasva - Samni village just 200 m in u/s. Gas stations of Reliance, GSPL & IPCL are in the vicinity area.	Kasva - Samni nearly 3 km in u/s i.e. far away of Alignment. No Gas pipe line or Gas station in the vicinity area.
10.	Villages benefited from fresh water	185	189	194
11.	Problems of siltation due to change in river regime	Heavy siltation	Moderate siltation	Less siltation compared to Alternate-1& 2
Common parameters				
1.	Design flood 1 in 100 return period	81717cumecs	81717cumecs	81717cumecs
2.	Waterway required	1663 m	1663 m	1663 m
3.	Sub soil strata available	Silty soil with clay and fine to medium grain sand	Silty soil with clay and fine to medium grain sand	Silty soil with clay and fine to medium grain sand


Sr No	Criteria considered	Alternate-1 Alignment	Alternate-2 Alignment	Alternate-3 Alignment
4.	Impact on fishing activities	Ships lock & fish ladder to be accommodated to safe guard the fishing activity.	Ships lock & fish-ladder to be accommodated to safe guard the fishing activity.	Ships lock & fish ladder to be accommodated to safe guard the fishing activity.
5.	Traffic survey assessment: Distance between Hansot-Dahej	46.5 km	43.9 km	41.3 km
6	Water availability	999 MCM	999 MCM	999 MCM

The alignment-3 is finalized by Expert Advisory Group (highest technical international expert group) on dated 18.07.2012 and which is also accepted by Kalpasar department, Government of Gujarat on dated 09.03.2016.

The Flood Protection Embankment is provided on both Left & Right Banks river of Narmada from barrage site to NH-8 Zadeshwar Bridge of length Left Bank – 27.30 km and Right Bank – 27.70 km. The work of design of Flood Protection Embankment is under progress.



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**Certificate for minimum use of forest land**

This is to certify that for the present proposal for Alignment of the Bhadbhut Barrage Project across river Narmada in District : Bharuch, was considered and the proposed area finally selected is found to be unavoidable and it requires bare minimum forest area.

Place : Vadodara

Date : 24/07/2017



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**Undertaking to Pay the Cost of Compensatory Afforestation**

Certified that the applicant i.e. Government of Gujarat, Kalpasar Department under the jurisdiction of its Gujarat area, agrees to make payment of cost towards compensatory afforestation on the degraded area admeasuring the area of forest proposed to be used as per letter of Forest & Environment Department, Govt of Gujarat, Gandhinagar's No. FCA/1074/1578/K. dated 20th October, 1994.

The applicant i.e. Government of Gujarat, Kalpasar Department is also willing to pay the compensations to the Forest Department for the expenditure to be incurred by the Forest Department for plantation for compensatory afforestation.



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**Undertaking for Payment of Net Present Value**

This is to certify that Government of Gujarat, Kalpasar Department has assured to pay net present value (NPV) of the Forest land diverted for non forest purposes, for permission to construct road embankment as per Supreme Court order dated 12-11-2012.



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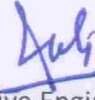


**Undertaking for to abide by any additional condition stipulated by the central/state government for the protection/conservation/development of forests & wildlife.**

Certified that the applicant i.e. Government of Gujarat, Kalpasar Department under the jurisdiction of its Gujarat area, agrees to abide by any additional condition stipulated by the central/state government for the protection/conservation/development of forests & wildlife.



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**Status of Environment and CRZ clearance**

The proposal for Environment Clearance for the proposed Bhadbhut Barrage Project is submitted to State level Environment Appraisal Committee (SEAC) of Government of Gujarat along with the Environmental Impact and Risk Assessment report prepared by National Environmental Engineering Research Institute (NEERI). The SEAC has discussed ToR and report submitted. On notification from GPCB, this office has completed Public Hearing and SEAC has made discussion on Dtd. 31.07.2014 issued raised during Public Hearing and the compliances is made by NEERI. The SEIAA (State Level Environment Impact Assessment Authority) Gujarat vide his letter dtd.08.03.2016 informed that the proposed activity does not fall under the purview of EIA Notification 2006 and does not require environment clearance.

In context of provisions in Coastal Regulatory Zone Act-2011, a proposal for CRZ clearance to the proposed project prepared by the Department. The proposal for CRZ clearance for the proposed Bhadbhut Barrage Project was discussed by Gujarat Coastal Zone Management Authority (GCZMA) on 11.06.2013 and they have recommended to Grant the CRZ Clearance. An online CRZ clearance application has been filed on dated 14.07.2017.



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**Annexure -15**

Resolution of Gram Sabha (other then linear projects) and certified English translation and certificate of collector regarding FRA 2006, in the prescribed proforma (As per Gol letter F. No. 11-9/98-FC (pt.), Date 5/7/2013).

Attached herewith as Annexure-15 A



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**ANNEXURE-1**  
**FORM-1 (For Linear Projects)**  
**Government of Gujarat**  
**Office of the District Collector Bharuch**

No.FOR/Ws/7803

Dated. 21/ 7 /2016

**TO WHOMSOEVER IT MAY CONCERN**

In compliance of the Ministry Of Environment and Forest(MoEF) Government of India's letter No.11-9/98-FC(pt.) dated 3<sup>rd</sup> August 2009 Wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled 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 purposes react with MOEF's letter. dated 5<sup>th</sup> February 2013 wherein MoEF issued certain relaxation in respect of linear projects, it is certified that **187.00** hectares of forest land proposed to be diverted in favour of behalf of Government of Gujarat, Kalpasar Department (N.M.R.W.S & K Department) through Executive Engineer Gulf of Khambhat Development Project (W.R), Project Implementation Unit-2 Vadodara for the construction of Bhadbhut Barrage, approach road and Flood Protection works across the river Narmada, Near Village - Aliabet, Taluka Vagra and Utraj village, Taluka Hansot Dist. Bharuch falls within Jurisdiction Vagra and Hansot Taluka.

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 **187.00** hectares of forest area proposed for diversion. A copy of records of all consultants and meetings of the Forest Rights Committee(s), gram Sabha(s) Sub-Division Level Committee(s) and the District Level Committee are enclosed as annexure... to annexure
- b. The diversion of Forest land for facilities managed by the Government is required under section 3(2) of the FRA have been completed and the Gram Sabha have given their consent to it;
- c. The proposal does not involve recognized rights of Primitive Tribal Groups and Preagricultural communities. as certified by the District Administration, Bharuch.

} not applicable



  
(Sandip J Sagale)  
Collector Bharuch