

Proposal

Under the provision of forest (Conservation) Act, 1980

For
Use of Forest Land
For non-forest purpose

ALIBAUG FOREST DIVISION

Diversion of Forest Land for the Project of Panvel - Karjat Suburban corridor (Doubling Railway Line) In Raigad Dist.

Required Forest Area 9.13.21 ha.

- Proposal submitted by -

DEPUTY CHIEF PROJECT MANAGER-I,

Mumbai Railway Vikas Corporation,
2nd Floor, Churchgate Station Bldg., Churchgate, Mumbai – 400020.

Dist: - Raigad.

**Name of the Proposal: - Diversion of Forest Land for the Project of Panvel - Karjat
Suburban corridor (Double Railway Line) In Raigad Dist.**

Check list for preparing proposals of Maharashtra State for diverting forest land for non-forest use under provisions of Forest (Conservation) Act, 1980 for irrigation road/Transmission line/ wind mill/OFC/water supply scheme & other development project.

Sr. No	Details of Check list	Compliance
1.	Information of proposal from item of form 1(I) regarding short description of the proposal / project which should invariably include.	Page No. 1+11
	a) cost of outlay	
	b) Justification for locating the project in forest area giving alternative those were examined and reasons for the rejection.	
	c) Financial and social benefits	
	d) Total population benefited.	
	e) Employment generated.	
2.a	The Geo digital map in 1:10,000 or any suitable scale with geo-reference boundary in shape file prepared by using total stations or differential GPS and also indicate forest land, non-forest land & adjoining land to the proposed for diversion, in different colors must be duly signed by the Deputy Conservator of Forests concerned and Project Authority, as per the GOI letter No.F.no.11-9/98-FC,dt.8/7/2011. Compartment boundary on the map should clearly be marked. Satellite imageries to be used to show the density of forest cover to be enclosed.	Page No. 173+180
b	Index Map in 1:50000 scale with Project location: Latitude/ Longitude to be enclosed.	189
	1. Proposed area up to 1.00 ha	• Only one co-ordinate to be given
	2. Proposed area up to 1.00 to 5.00 ha	<input checked="" type="checkbox"/> Two co-ordinate diagonally to be given
	3. Proposed area above 5.00 ha.	<input type="checkbox"/> Four co-ordinates at four corners to be given.
	B 4. Village Map	Page No. 181+188
c	Map of compensatory Afforestation of forest / Non forest area in 1:50000 scale with location of Latitude & Longitude.	Not Applicable
	1. Proposed area up to 1.00 ha	• Only one co-ordinate to be given
	2. Proposed area up to 1.00 to 5.00 ha	<input checked="" type="checkbox"/> Two co-ordinate diagonally to be given
	3. Proposed area above	<input type="checkbox"/> Four co-ordinates at four corners to

	5.00 ha.	be given.	
d	A comprehensive land use plan of the area required should be attached if land is required for more than one purpose the building plan and estimate should invariably be attached if the area is required for construction purpose.		-
e	The following information must be complied in the construction of State Highway /National Highway / Road/ Winding /Exploitation Purpose / Canal / Transmission line & all other linear Project as per GOI guideline vide No.6-MPB-071/2011-BHO-736, Dt.30/04/2012.		-
i	Map of the alternative alignments or route map examined by Dy.CF/ Project Authority to be enclosed.		Not Applicable
ii	Show proposed diversion of forest / non forest area in the Original, colored or legible topo-sheet and to be enclosed.		Page No. 189
iii	To give the Latitude & Longitude of the proposed area at starting, ending turning point and breaking of the forest area Which should be identifiable.		Page No. 181 to 188
iv	To show the existing Water body / Water channel or road Which should be identifiable?		Not Applicable
v	To show the newly proposed bridge /culvert / underground pass / tunnel etc. to be identify clearly.		Project Note Page No. 21 to 23
vi	To enclose the cross section Plan / Map indicating dimension of (Length / Width / Height /depth etc) clearly.		-
vii	To show the additional impacted area clearly this may be impacted temporarily by the proposed construction.		Not Applicable
viii	To show the diversity of the ecology this is to be impacted by the proposed construction.		Not Applicable
f	Map of Eco-Sensitive Zone, in 1:2, 50,000 or 1" = 4 mile scale by showing the distance of "Protected Area" from proposed forest areas under diversion, in kilometer.		-
g	Map of Wind Mill and Wind mast to be enclosed by showing the 10.00 Km radius area from the wind mast site on 1:50,000 or 1:25000 scale topo sheet.		Not Applicable
	Certificate by Dy. CF/ Chief Conservator of Forest and their authenticated documents.		-
3	Documents verification Certificate by the Deputy Conservator of Forest		Certificate No.1 Page No. 30
4	Certificate of Dy. Conservator of Forest for absences of alternative about the Project and minimum demand of forest area.		Certificate No.2 Page No. 31
5	Certificate by the Deputy Conservator of Forests that no violation done of the FCA-1980 and their guideline.		Certificate No.3 Page No. 32
a	If violated, circumstances leading to violation date of commencement of work /quantity of work done and the amount spent Certificate to be furnished by the concerned inspection of the site of violation.		Not Applicable
b	If work started in forest land when and how much amount spent on		Not Applicable

	the project and the works done in the forest land.	
c	Detailed report of the disciplinary action or proposed to be taken against the concerned staff for violation of the provisions of the Act.	Not Applicable
d	Details of clarification for violation, if administrative and technical sanction accorded to the project by project authority / user agency after the promulgation of the Forest (Conservation) Act, 1980.	Not Applicable
6	Suitability certificate by the Deputy Conservator of Forests that forest and non forest land is suitable for raising trees species.	Certificate No.4 Page No. 33
A	The Compensatory Afforestation certificate must be geo-tagged photos of the areas proposed for Compensatory Afforestation.	Page No. 34
7	Certificate of Identified Forest and Acquired Forest for Compensatory Afforestation Area by Dy. Conservator of Forests	Certificate No.5& 6 (Page No. 34 to 35)
8	Certificate of Identified Forest and Acquired Forest for Non Forest area under the project by Dy. Conservator of Forests.	Certificate No.7 Page No. 36
9	Certificate by the Dy.CF Whether the proposed project likely to affect any monument site of cultural, historical, religious, archeological or recreational importance including wild life sanctuaries and national parks to be enclosed	Certificate No.8 Page No. 37
10	Wild life Certificate by the Dy.C.F.	Certificate No.9 Page No. 38
11	Net Present Value Certificate must be marked with eco-class /category of Forest as per the GOI letter F.No.5-3/2007/-FC, Dt.05/02/2009 to be enclosed.	Certificate No.10 Page No. 39
12	No cutting and felling of trees Certificate of by the Dy. Conservator of Forests to be enclosed	Certificate No.11 Page No. 40
13	Certificate about distance of Project from Protected area by Deputy Conservator of Forest.	Certificate No.12 Page No. 41
14	Certificate of Dy. Conservator of Forests regarding alternative examined for liner project (Certificate No-27)	Certificate No.13 Page No. 42
15	Certificate by the Dy. CF Whether, the required Annexure and the particulars to the proposal furnished in English? If any Govt. orders are in Marathi, English as required by the Government of India to be enclosed.	Certificate No.14 Page No. 43
16	Zudpi Jungle land offered certificate by the Dy. CF for the compensatory afforestation is in a compact patch and is contingencies of the forest area and is suitable for the management point of view.	Certificate No.15 Page No. 44
17	Site inspection report form Deputy Conservator of Forests if forest area involves is less than 10 ha and by Conservator of Forests if forest area involved is more than 10 ha in regard to sensitivity and potential value of the forest area in regard to forest types in catchments and submergence area.	Certificate No.16 Page No. 27 to 29
18	Certificate of the Dy.CF regarding the proposal of the Eco-Tourism Scrutinized vide GOM order No.WLP-1002/c.r.53/F-1/dated	-

	20.2.2008 to be enclosed.	
19	Compensatory Afforestation scheme prepared by Dy.CF.	Page No.
20	Medicinal plantation / road side/ canal side plantation scheme prepared by PA /Dy.cf whether the proposed area is diverted for wind power/ transmission line and other linear proposals to be enclosed.	Not Applicable
21	Cost benefits analysis. Whether the area is more than 20.00 ha.	Certificate No.17 Page No. 45
22	Item wise break up of forest and non forest area required category wise (Damseat, submergence, quarry, roads, colony, canals etc.) area statement to be enclosed	Page No. 12 to 20
23	List of the Identified forest form the Deputy Conservator of Forest	Certificate No.18 Page No. 46
24	List of tree, species wise/girth wise, with local and scientific name to be given. If felling of trees is essential? The estimate of tree felling to be enclosed. As per GOI letter no. 7-1/89/(For)/Part-VIII/2012-BHO/848, dt.18/05/2012.	-.
	Certificate by Chief Conservator of Forest and their authenticated documents.	
25	Net Present Value Certificate must be counter signed by Chief Conservator of Forest / with eco-class /category to be shown in the certificate of Forest as as per the GOI letter F.No.5-3/2007/-FC, Dt.05/02/2009 to be enclosed	Certificate No.18 A Page No. 47
	Certificate by Project Agency and their authenticated documents:-	
26	Chronological of Events	Page No.2
27	Attempts made to find out Non forest land for the proposal/ reasons for its rejection of the same and minimum demand of forest area.	Certificate No.19 Page No. 48
28	Unqualified commitment from the project authority to bear cost of exploitation of felling of trees and their allied works under project.	Certificate No.20 Page No. 49
29	Certificate by Project Authority for the cost of Compensatory Afforestation. (Certificate No.6)	Certificate No.21 Page No. 50
30	Certificate by the project authority that no violation done of the FCA-1980 and their guideline.	Certificate No.22 Page No. 51
31	Certificate by the Project Authority to furnish the Net Present Value as per the ordered by Government of India.	Certificate No.23 Page No. 52
32	Certificate of project authority (Providing i.e. water supply facilities to)	Certificate No.24 Page No. 53
33	Certificate of the Project Authority to get the Environmental clearance as per the Environmental Act. 2006 (whenever necessary)	Certificate No.25 Page No. 54
34	Certificate of Non Indemnity to forest Department (by Project Authority)	Certificate No.26 Page No. 55
35	Certificate or Noc from the private owner if the area under private forest act, (Acquisition) Act.1975 to be enclosed. (By villagers)	Certificate No.27 Page No. 56
36	Certificate of the Projects Authority to take up catchments area treatment plan as per the guideline of Government of India	Certificate No.28 Page No.57
37	Catchment area treatment plan.	Not Applicable

38	Command area development plan.	Not Applicable
39	Certificate by Project Authority Whether stipulation is made that 5 % of area under command of the project is made available to the Forest Department for planting trees and other vegetation for which necessary irrigation should be provided free of cost by the project authority / user agency. If the forest area involved is less than 2. 00 ha and there is no felling to tree growth; it is to be dealt with as per simplified procedure.	Not Applicable
40	Project note by the project authority. With salient features.	Page No. 21 to 23
	a) Total catchment area	
	b) Total command area	
	c) Full reservoir level	
	d) High flood level	
	e) Minimum drawal level	
	f) Total catchment area of the dam (in Ha) and its breakup forest land, cultivated land, Pasture, Human cultivation and others.	
	g) Details as per item (f) above for the area coming under submergence.	
	h) Total No. of families and population affected, scheduled caste and scheduled tribe families to be displaced should be separately indicated.	
	i) Proposal for the rehabilitation of affected persons (Rehabilitation Plan)	
	j) Comprehensive land use plan for the area required outside the submergence i.e. building roads and other ancillary facilities outside submergence i.e. building roads and other ancillary facilities.	
41	It has been observed that water hardly stands the ear around even upto FRL. Trees can definitely stand in water for one to three months and therefore submergence should be calculated 2 M below FRL for this following should be given for forest areas involved.	Not Applicable
	i) Area of submergence at H.F.L. (High flood level)	
	ii) Area of submergence at F.R.L. (Full Reservoir level)	
	iii) Area of submergence at 2 Meter below F.R.L.	
	iv) Area of submergence at 4 Meter below F.R.L.	
42	List of trees 2 Meter, 4 Meter below F.R.L. in submergence area species wise.	Not Applicable
43	Administrative/Technical approval from the competent authority to be enclosed.	Page No. 24 to 26
44	Certificate/ undertaking by the project authority regarding the wind power project as per the GOI letter Dated 14/05/2004 to be enclosed.	Not Applicable
	Certificate by Other Department:-	
45	In case of proposal related to stone quarries, the recommendation of	Not Applicable

	the Director, Geological and Mines is required.	
46	If any Protected/Archeological/Heritage site and other Important Monument is located in the area. The Certificate by Archeological Department to be enclosed	Certificate No. Page No. 29 58
47	Certificate about the distance of Project from Protected area by the Dy.CF Wildlife Department. Whether the Project area within 10.00 Km. should be clearly shown and marked.	Certificate No.30 Page No. 59
48	No Objection Certificate of M.D., F.D.C.M. for involvement of their area.	Not Applicable
49	Relevant Notification/7/12 Extract/ restoration order/Rights of record etc. of the proposed forest land to be enclosed.	Page No.
	Certificate by Collector:-	
50	Certificate from the Collector that no alternative suitable non-forest land is available for the project. (In A Form itself)	-
51	Certificate of Collector under the FRA-2006 with resolution of Gram Sabha/Gram Panchayat as per GOI letter dated 3/8/2009 to be enclosed.	Application Submitted Page No. 71
52	Certificate of Compensatory Afforestation land made available by Collector.	Not Applicable
53	Certificate of non-availability of non-forest area for Compensatory Afforestation by the Collector/Commissioner.	-
54	The agency has not given alternative land to the forest Department. If non forest land for C.A. scheme is not available in the entire state the certificate from the Chief Secretary of the State to be enclosed.vide GOI letter dt 13/2/12	-
55	As the project, area is within the 10.00 km from the boundary of PA area therefore, the information regarding 16 points check list provided by Principle Chief Conservator of Forest (W.L.) Nagpur which is enclosed herewith to be furnished	-
56.	All the certificate and documents must have name of the signatory, designation, station, & date under the signature as per the GOM letter vide, dtd.01 December 2010.	Certificate No.31 Page No. 60
57.	Resolution of the Gram Sabha may not be required in cases of projects like transmission line, roads, canals, laying of pipeline/optical fibers where linear diversion of forest land in several villages are involved, unless recognized rights of PTG/ PAC are being affected as per Government of India F.No.11-9/98-FC(pt.) dated 05/02/2013	Certificate No.32 Page No. 61

Chronology of Events

Date	From	To	No & date
01/02/2018	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 01/02/2018
08/03/2018	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, Mumbai	Date 08/03/2018
07/04/2018	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 07/04/2018
02/05/2018	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, Mumbai	Date 02/05/2019
05/07/2018	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 05/07/2018
30/07/2018	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, Mumbai	date 30/07/2018
06/12/2018	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, Mumbai	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 06/12/2018
21/01/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, Mumbai	Date 21/01/2019
09/2/2019	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 09/02/2019
15/02/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Date 15/2/2019
07/03/2019	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 07/03/2019, 24/04/2019 and 25/05/2019
13/03/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Date 13/03/2019
28/05/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	The Chief Conservator of Forests Thane	A/20/Land/320/2019-20 Alibag dated 28/05/2019

04/07/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Date 04/07/2019 and 30/07/2019
17/09/2019	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date 17/09/2019
03/10/2019	Deputy Conservator of Forests, Alibag Forest Division, Raigad	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Date 03/10/2019
15/11/2019	Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation,	Deputy Conservator of Forests, Alibag Forest Division, Raigad	MRVC/W/150/Forest Land Date - 15/11/2019


Deputy Chief Project Manager-I,
Mumbai Railway Vikas Corporation,
Mumbai.

उप मुख्य परियोजना प्रबंधक-I
 मुंबई रेलवे विकास कॉर्पोरेशन लि.
 Dy. Chief Project Manager-I
 Mumbai Rly. Vikas Corp. Ltd.

Information in From-A Part- I

Filled up by
The Project Authority

DEPUTY CHIEF PROJECT MANAGER-I,
Mumbai Railway Vikas Corporation,
Mumbai.



मुंबई रेलवे विकास कॉर्पोरेशन लि.

(भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम)

MUMBAI RAILWAY VIKAS CORPORATION LTD.

(A PSU of Govt. of India, Ministry of Railways)

No. MRVC/W/150/Forest Land

Date 24/01/2019

AUTHORISATION

Shri. Mukesh Kumar, Deputy Chief Project Manager-I, Mumbai Railway Vikas Corporation, is hereby nominated as Nodal Officer for obtaining clearance of Forest Department for Diversion of Forest Land for the Project of Panvel - Karjat Suburban corridor (Doubling Railway Line) project of MRVC. Shri. Mukesh Kumar, Deputy Chief Project Manager-I, is hereby authorized to sign all relevant document as may be required to fulfil the prerequisites of the Forest Clearance Proposal. The Name, address and other details of the Officer are given below.

Mukesh Kumar,
Deputy Chief Project Manager-I,
Mumbai Railway Vikas Corporation,
2nd Floor, Churchgate Station Bldg., Churchgate,
Mumbai - 400020.
Telephone No. 022 - 22626166
Mobile No. 8433952500



(Kanhaiya Jha)

Chief Project Manager-I

Mumbai Railway Vikas Corporation,

पुनर्गठन मंडल, चर्चगाट स्टेशन भवन, मुंबई - 400 020

2nd Floor, Churchgate Station Bldg. Mumbai 400 020

Tel: 022 22195398 / 399 • Fax: 022 2209 6872 • Website: www.mrvco.indianrailways.gov.in

CIN: U45203MH1999GO1120765

APPENDIX
(Sec Rule 6)
FORM – 'A'

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

PART – 1

(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 acquired

The Mumbai suburban railway network on the Central Railway has two corridors – i) Main line and ii) Harbour line. The Main line corridor connects Chhatrapati Shivaji Terminus (CSTM) with Kalyan. The Harbour line corridor starts at CSTM and terminates at Panvel.

The Navi Mumbai area, especially around Panvel, has witnessed significant urbanization and population growth in recent years. The area between Panvel and Karjat is also developing rapidly and hence there is increasing demand for extending the suburban train services to Karjat. Currently, a single line 29.60 km track connects Panvel with Karjat. It caters only to goods and a few long distance passenger trains. Mumbai Rail Vikas Corporation (MRVC) plans to increase network capacity and improve customer services on this corridor. MRVC has therefore commissioned the services of Omega Analytics to undertake a feasibility study for constructing an additional line between Panvel to Karjat. In view of this, about 913.21 Hectore of Forest land is required to be diverted for Doubling Railway Line of this railway having length of 29.60 Km. Which passes through 8 forest villages Belavali, Bhingar, Barvai, Bherale

Information in From-A Part- I

Filled up by
The Project Authority

**DEPUTY CHIEF PROJECT MANAGER-I,
Mumbai Railway Vikas Corporation,
Mumbai.**

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Tal. Panvel, Lodhivali, Vavarle, Tal Khalapur and Kiravali, Vanjale, Tal Karjat, Raigad District.

- | | | |
|-------|---|---|
| (ii) | Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map | Essential map attached on Page No. |
| (iii) | Cost of the project | Total Cost of the Project Rs. 2339.00Crores |
| (iv) | Justification for locating the project in forest area | The other all possible alternatives were examined by us the railway alignment is designed keeping the views of topography. The Project alignment Cross the forest land, there is no alternative non forest land available for this purpose.
So we have decided to take necessary permission Under the provision of forest (conservation) Act 1980, Hence this proposal is submitted for necessary clearance. |
| (v) | Cost-benefit analysis | Applicable - enclosed on page No. |
| (vi) | Employment likely to be generated | During Construction approximately 300 construction personals will work at site |
| 2 | Purpose-wise break-up of the total land required | Total forest land required = 9.13.21 ha |
| 3 | Details of displacement of people due to the project, if any | There is no displacement of the people due to this project in forest area. |
| (i) | Number of Families | Not Applicable |
| (ii) | Number of Scheduled caste Tribe families | Not Applicable |
| (iii) | Rehabilitation Plan (To be enclosed) | Not Applicable |
| 4 | Whether clearance from Environment (Protection) Act, 1986 required? (yes/No) | Not Applicable |
| 5 | Undertaking to bear the cost of raising and maintenance of compensatory forestation and/or penal compensatory | Undertaking to bear the cost of compensatory afforestation is enclosed on page No. |

forestation as well as cost for protection and regeneration of Safely Zone etc as per the scheme prepared by the State Government (undertaking to be enclosed)

- 6 Details of Certificates / (1) Project Note
documents enclosed as (2) Village map
required under the (3) Location Geo - Digital map
instructions (4) Topo Sheet
(5) 7/12 extract
(6) Necessary Certificates and undertaking

Date: - 15 / 11 / 2019

Place:-


Deputy Chief Project Manager-I,
Mumbai Railway Vikas Corporation,
Mumbai.

उप मुख्य परियोजना प्रबंधक-1
मुंबई रेलवे विकास कॉर्पोरेशन लि.
Dy. Chief Project Manager-I
Mumbai Rly. Vikas Corp. Ltd.

PART-II
(To be filled by the concerned Deputy Conservator of Forests)
State serial No. of proposal _____

7. Location of the project/Scheme:

i	<u>State/Union Territory</u>	MAHARASHTRA STATE
ii	Forest Division	Alibag Forest Division, Alibag
iii	District	Raigad
iv	Area of forest land proposed for diversion (in ha.)	9.1321 ha. Private forest of village Belavali, Bhinghar, Bherle, Lodhival, Tal. Panvel and village Vavarle, Tal. Khalapur and village Kiravali, Vanjale, Tal. Karjat in Raigad District, Maharashtra.
v	Legal status of forest	Private Forest, Acquired Forest and Reserve forest
vi	Density of Vegetation	The density is 0.1
vii	Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation / hydel projects enumeration at FRL, FRL-2 meter & FRL-4 meter also to be enclosed.)	The species of Tectona grandis, Terminalia tomentosa, Acacia catechu, Bombax ceiba
viii	Brief note on vulnerability of the forest area to erosion	The project area is not vulnerable to erosion.
ix	Approx. distance of proposed site for diversion from boundary of forest	Proposed site passing through Reserved, Protected and Private forest
X	Whether forms part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed).	The forest area doesn't form part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor. It is Passes through Matheran Eco-sensitive Zone. There is no adverse effect on the wildlife and birds in the sanctuary or Eco-Sensitive Zone.
xi	Whether any rare/endangered/ unique species of flora and fauna found in the area if so detail thereof.	No.
xii	Whether any protected archaeological/heritage site/ defense establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required	There is no protected archaeological/heritage site/defense establishment or any other important monument is located in the project area.

8	Whether the requirement of forest land as proposed by the user agency in col. 2 of Part-I is unavoidable and barest minimum for the project. If no, recommended area item-wise with details of alternatives examined	Yes. Requirement of forestland is barest minimum and unavoidable.
9	Whether any work in violation of the Act has been carried out (Yes/No). If yes, details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.	Violation is not notice in the forest area.
10	Details of compensatory afforestation scheme	--
i	Details of non forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch	Compensatory afforestation is proposed on double degraded forest land in Reserved forest land comptt. No. 647 at village Aptavne, Tal-Sudhagad, District-Raigad, in Alibag Forest Division.
ii	Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries	Map attached on Pg. No. 191
iii	Details Compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	Compensatory afforestation scheme attached on page No. 63 to 70B
iv	Total financial outlay for compensatory afforestation scheme	Total financial outlay for compensatory afforestation with fencing is Rs. 6612730/-
v	Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests).	Certificate is attached on page No. 62
11	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.	Site inspection report of DCF is attachment on page No. 42 to 45B
12	Division/District profile:	District - Raigad Division – Alibag Forest Division

i	Geographical area of the district	Raigad Dist. – 7152 Sq. KM.
ii	Forest area of the district.	Raigad Dist, - 1647.68 Sq. KM.
iii	Total forest area diverted since 1980 with number of cases in the Division	No. 89 cases – Area diverted 1222.4483 Ha.
iv	Total compensatory afforestation stipulated in the district/division since 1980 on a) forest land including penal compensatory afforestation, b) non-forest land	2113.0954 Ha, On forest land. <u>367.4640 Ha.</u> On non-forest land 2479.5594 Ha.
v	Progress of compensatory afforestation as on 31/03/2018 (a) forest land (b) non-forest land.	2066.0954 Ha. on forest land. <u>367.4640 Ha.</u> On non-forest land 2433.5594 Ha.
13	Specific recommendations of the Deputy Conservator of Forest for acceptance or otherwise of the proposal with reasons	The proposal is recommended as it is public infrastructure facility and essential for convenient fast & safe travel. It is development project and proposal of national interest undertaken by Govt. of India. Project proponent is ready to bear all the Government levies hence the proposal is being recommended for approval for diverting the required forest land under Forest (Conservation) Act, 1980.

Place:- Alibag
Date: /11/2019.

(Maneesh Kumar)
Deputy Conservator of Forests,
Alibag.
Alibag

PART – III

(To be filled up by the concerned Chief Conservator of Forests)

- 1 Whether site, where the forestland involved is located has been inspected by concerned Chief Conservator of Forests (Yes / No) If yes, the date of inspection and observations made in form of inspection note to be enclosed.
- 2 Whether the Chief Conservator of Forests agree with the information given in Part-II and the recommendations of the Deputy Conservator of Forests.
- 3 Specific recommendations of the concerned Chief Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.

**Chief Conservator of Forests,
Thane**

PART-IV

**(To be filled up by the Nodal Officer or Principal Chief Conservator of Forests or
Head of the Forest Department)**

**Detailed opinion and specific recommendations of the State Forest Department for
acceptance or otherwise of the proposal with detailed reasons.**

Signature : _____

Name : _____

Date: _____

Designation: _____

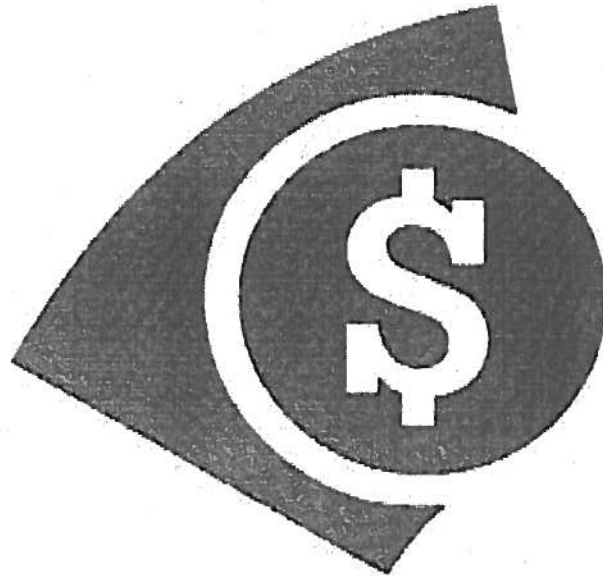
Place: Nagpur

Official Seal: _____

PART – V

(To be filled in by the Secretary in charge of the Forest Department or any other authorized officer of the State Government not below the rank of Under Secretary)

1 Recommendations of the State Government



AREA STATEMENT

Item-wise Breakup of the Land
ALIBAG FOREST DIVISION
(Under Forest Conservation Act, 1980)

1/2

Abstract of Item-wise Breakup of the Land
Details area statement of Required Forest Land

SR NO.	VILLAGE NAME	TALUKA NAME	OLD SURVEY NO.	NEW SURVEY NO.	COMPART MENT NO.	CHAINAGE	SHAPE OF LAND	AREA		STATUS OF FOREST
								SQ. MTR.	HA.	
1	BELAVLI	PANVEL	86	136	-	5320 TO 5340, 5408 TO 5470	IRREGULAR SHAPE	1525.27	0.15.25	RESERVE FOREST (SEC 4)
2	BHINGAR	PANVEL	-	26	-	8070 TO 8150	IRREGULAR SHAPE	533.16	0.05.33	RESERVE FOREST (SEC 4)
3	BARVAI	PANVEL	74	58	-	12450 TO 13090	IRREGULAR SHAPE	9136.37	0.91.36	RESERVE FOREST (SEC 4)
4			-	36	-	11564 TO 11700		672.64	0.06.72	PRIVATE FOREST
5			-	35	-	11500 TO 11564		344.15	0.03.44	
6			-	27	-	11130 TO 11200		586.903	0.05.86	
7			-	37	-	11370 TO 11500		622.03	0.06.22	
8	BHERLE	PANVEL	-	41	-	8565 TO 8630	IRREGULAR SHAPE	115	0.01.15	PRIVATE FOREST
9			-	42/1A	-	8565 TO 8630	IRREGULAR SHAPE	787	0.07.87	PRIVATE FOREST (SEC. 35)
10			-	42/2A	-	8565 TO 8630	IRREGULAR SHAPE	1172	0.11.72	PRIVATE FOREST (SEC. 35)
11			-	FOREST	-	8565 TO 8630	IRREGULAR SHAPE	2700.0	0.27.00	RESERVE FOREST
12	LODHIVALI	KHALAPUR	-	17	-	13820 TO 13863	IRREGULAR SHAPE	1306.87	0.13.06	ACQUIRED PRIVATE FOREST
13	VAVRLE	KHALAPUR	3/7, 3/1	153	-	23100 TO 23257	IRREGULAR SHAPE	3893.16	0.38.93	PRIVATE FOREST (SEC. 35)
14			3/5A	156	-	23332 TO 23360		103.14	0.01.03	RESERVE FOREST
15			15/12A	189	-	23725 TO 23872		3577.95	0.35.77	PRIVATE FOREST (SEC. 35)

16			36/3A	201	-	23932 TO 24055	3233.09	0.32.33	RESERVE FOREST
17			3/4	157	-	23257 TO 23332	2896.18	0.28.96	PRIVATE FOREST (SEC. 35)
18			38/2	207	-	24233 TO 24276	999.92	0.09.99	
19			38/3a/1	208	-	24276 TO 24300	400.74	0.04.00	
20			38/1	205	-	24194 TO 24233	1241.33	0.12.41	RESERVE FOREST
21			15/A/16	194	-	23702 TO 23725	63.84	0.00.63	PRIVATE FOREST (SEC. 35)
22			38/4	210	-	24335 TO 24380	1035.84	0.10.35	RESERVE FOREST
23			36/5,15/A/10	188	-	24300 TO 24335	874	0.08.74	PRIVATE FOREST (SEC. 35)
24			38/3A/2	209	-	23932 TO 23972	833	0.08.33	
25			3/3	158/A		23332 TO 23360	928	0.09.28	
26			36/3	200	-	-	5	0.00.05	
27			-	166	-	24380 TO 24800	10196.55	1.01.96	RESERVE FOREST
28			100	26	-	24800 TO 25243	16337.7	1.63.37	RESERVE FOREST
29			99	25	-	25243 TO 25330	3137.96	0.31.37	
30	KIRAVALI	KARJAT	92	18	-	25330 TO 25600	11331.95	1.13.31	(SEC 4) RESERVE FOREST
31			114	40	-	25853 TO 25935	3842.65	0.38.42	
32	VANJALE	KARJAT	65/0	170	-	27100 TO 27270	6887.169	0.68.87	RESERVE FOREST (SEC 4)
TOTAL							91321	9.13.21	

Deputy Conservator of Forest
Alibag

Deputy Chief Project Manager-I,
Mumbai Railway Vikas Corporation,

Mumbai.

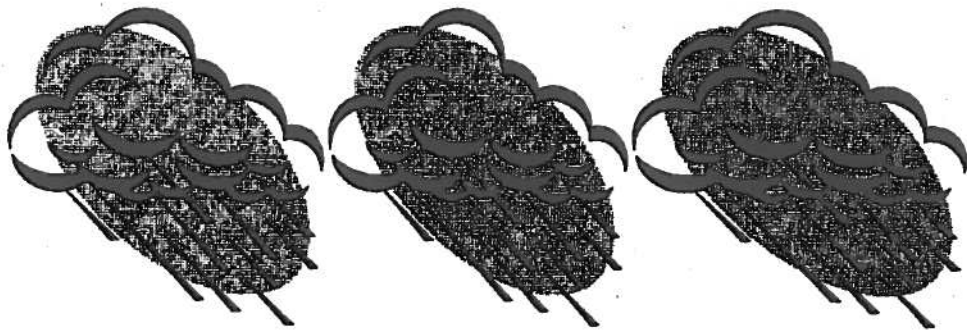
(Mukesh Kumar)

(Signature)
15/11/19

उप मुख्य परियोजना प्रबंधक-1

मुंबई रेलवे विकास कॉर्पोरेशन लि.

Dv Chief Project Manager-I



Compensatory Afforestation Scheme

Ready Reckoner for amount to be Deposited for Compensatory afforestation for 2013-14 to 2022-23

Model No. Structure No. 5

[illegible][illegible]



Project Note.

PROJECT NOTE

By the Project Authority

Name of the Project: Diversion of Forest Land for the Project of Panvel - Karjat Suburban corridor (Doubling Railway Line) In Raigad Dist.

1.0 GENERAL

The Total length from Panvel to Karjat is 29.600 km. Panvel – Karjat is an important section of Central Railway.

A Central Railway committee report has said the traffic on CR has been rising at 4% a year where as it is falling by 1% in the western railway annually due to the real estate boom in the central suburbs. The pressure on CST-Panvel section is more than that of CST-Kalyan line.

The committee of railway officers, civic administrators and public representatives has highlighted the need for the acquisition of 150 new trains, increasing the frequency of trains, and stabling lines (parking places for trains) at Panvel, Thane and Kalyan. It particularly stressed on the need for the induction of ten new rakes in trans-harbor section, since no addition has been made during the last ten years.

The proposed alignment crosses a number of major rivers which are as follows:

- | | | |
|------|-----------------|------------|
| (i) | Kaalundri River | km 628.947 |
| (ii) | Dhavri River | km 18000 |

There are total of 5 existing stations between Panvel and Karjat which are as follows:

Sr.No.	Name of Station	Chainage From CST	Chainage From PNVL
1.	Panvel	Km 68/128	Km 0/000
2.	Chikhale	km 71/14-15	Km 3/380
3.	Mohape	km 77/24-26	Km 9/622
4.	Chowk	km 85/9-10	Km 17/240

5.	Karjat	km 99/28-30	Km 27/930
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There are total 3 tunnels has been proposed.

Sr. No.	Tunnel No	Chainage	Length in Km
1.	Tunnel 1	22+900 to 25+500	2.6
2.	Tunnel 2	14+756 to 14+975	0.219
3.	Tunnel 3	26+125 to 26+425	0.3

Sr. No.	Description	
1.	Route length	29.600 Km Starting point Panvel Meeting point Karjat
2.	Ruling gradient	1 in 200 (c),
3	Ruling gradient In Yard	1in 1200, in exceptional case 1 in 400
4.	Standard of Construction	Group "C" suitable for operation of 25T axle load trains
	- Gauge	1676 mm
	- Rails	60 kg/90 UTS new rails in Mainline, 52 Kg S/H rails loop lines and sidings.
	- Sleeper	60 kg PSC sleepers of existing design 1660 sleepers per km in main line and 1540 sleepers per km in loop line.
	- Ballast	Mainline 350mm , Loop lines 250mm
	- Speed Potential	160 kmph (passenger) & 100 kmph (goods)
5.	Curves	
	- Maximum degree of curvature	020 exceptional case 040
	- Total number of curves	29
	- Total length of curved track	UP-12.817 km DN-12.259 km
	- % Age of curved track	UP-43.3% DN-41.42%
6.	Bridges	
	- Total nos. of bridges	64+2

	- Total nos. of minor bridges	35+2(FOB's)
	- Total nos. of major bridges	6
	- Total nos. of important bridge	Nil
	- Length of longest major bridge	About 79.3m (86/1)
7.	No. of Stations	5 (Panvel,Chikhale,Mohape, Chowk and karjat)
8.	No. of ROB	5
9.	No. of RUB	16
10.	No. of level crossings	Nil

Financial Details

- The capital cost of the project

2339 Crores

Date: 15 / 11 /2019

Place:


Deputy Chief Project Manager-I,
Mumbai Railway Vikas Corporation,
Mumbai.

उप मुख्य परियोजना प्रबंधक-I
मुंबई रेलवे विकास कॉर्पोरेशन लि.
Dy. Chief Project Manager-I
Mumbai Rly. Vikas Corp. Ltd.