

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (HEAD OF FOREST  
FORCE), MAHARASHTRA STATE, NAGPUR**

ADDITIONAL PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND NODAL OFFICER, MAHARASHTRA STATE, NAGPUR,  
First Floor, 'B' Wing, Van Bhavan, Civil Lines, Nagpur-440001.

Tel no. (0712) 2530166, 2556916, Fax no. (0712) 2550675 E-mail- [apccfnodal@mahaforest.gov.in](mailto:apccfnodal@mahaforest.gov.in)

**Sub:-** Diversion of 0.0728 ha. forest land for widening of existing  
Shri Krishna Nagar Bridge near Western Express Highway,  
Borivali (East) at Village- Kanheri, Taluka Borivali, District-  
Mumbai Suburban in the State of Maharashtra- regarding

No. Desk-17/FCA-S2/PID-155480/Thane/ 91 /2024-25

Nagpur – 440 001, Date :- 09/04/2025

To,

The Deputy Director General (Central)  
Ministry of Environment, Forests, and Climate Change,  
Regional Office, Ground Floor, East Wing,  
New Secretariat Building, Civil Lines,  
Nagpur- 440001.

Ref:- 1. Government of India, Ministry of Environment, Forests and Climate Change,  
Integrated Regional Office, Nagpur letter No. E.No. FC-1/MH-332/2023-  
NGP /12002, dated 08/08/2023.

2. The Additional Principal Chief Conservator of Forests, Wildlife West,  
Mumbai letter No. Desk-3/land/FCA/C.R.121/1020/24-25, dated 24/03/2025.

Sir,

The Government of India, Ministry of Environment, Forests and Climate Change,  
Regional Office, Nagpur conveyed the 'in-principle' approval for diversion of 0.0728 ha.  
forest land for widening of existing Shri Krishna Nagar Bridge near Western Express  
Highway, Borivali (East) at Village- Kanheri, Taluka Borivali, District- Mumbai Suburban in  
the State of Maharashtra subject to certain terms and conditions. Accordingly, the Additional  
Principal Chief Conservator of Forests, Wildlife West, Mumbai vide letter under reference  
no.2 has submitted compliance report for the same as follows:-

Sr.No.	Conditions	Compliance
i	Legal status of the forest land shall remain unchanged	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15/01/2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.1</b></p>

ii	<b>Compensatory afforestation</b>	
a)	<p>Compensatory afforestation shall be taken up by the Forest Department over 1.00 ha Degraded Forest Land in Survey No. 419, Compartment no. 1144 at VillagePanchpakhadi, Taluka- Thane, District- Thane at the cost of the User Agency. As far as possible, a mixture of local indigenous species along with 10% RET species of Thane District shall be planted and monoculture of any species may be avoided. Atleast one water body shall be constructed in the form of tank/ stop dams etc., if the same are not available in the area or in nearby vicinity. Further, if existing tank/ stop dams are available and needs desilting/ repair, same shall be carried out to meet the water requirement of wild animals throughout the year;</p>	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15/01/2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The Compensatory afforestation will be taken up by the Forest Department over 1.00 ha Degraded Forest Land in Survey No. 419, Compartment no. 1144 at VillagePanchpakhadi, Taluka- Thane, District- Thane</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.2</b></p>
iii	<p>The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars if required on the CA land shall be deposited in advance with the Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years;</p>	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has deposited Rs.8,04,884/- towards the cost of compensatory afforestation in CAMPA Account vide UTR No. BARBR52023102600982681. The copy of the same is enclosed herewith as <b>Annexure No.5</b></p>



iv	<b>NPV:</b>	
a)	<p>The State Government shall charge the Net Present Value (NPV) for the 0.0728 ha forest area to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA. No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt.II) dated 18/09/2003, letter No. 5-2/2006-FC dated 03/10/2006, letter No. 5-3/2007- FC dated 05/02/2009, letter No. 5-3/2011-FC(Vol-I) dated 06.01.2022 and letter No. 5-3/2011-FC(Vol-I) dated 22.03.2022 in this regard</p>	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has deposited Rs.81,310/- towards the cost of Net Present Value of forest land proposed for diversion in CAMPA Account vide UTR No. BARBR52023102600982681. The copy of the same is enclosed herewith as <b>Annexure No.5</b></p>
b)	<p>Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect;</p>	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.3</b></p>
v.	<p>User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department and the cost of felling of trees shall be deposited by the User Agency with the</p>	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an</p>

	State Forest Department;	undertaking attached herewith as <b>Annexure No.4</b> . The User Agency deposited the cost of felling of trees to the Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali vide demand draft No.050752.
vi.	All the funds received from the user agency under the project shall be transferred/ deposited to CAMPA fund only through e-portal ( <a href="https://parivesh.nic.in">https://parivesh.nic.in</a> );	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has deposited funds such as NPV, Compensatory Afforestation Cost etc., through E-Challan on PARIVESH in the CAMPA account. Payment Receipt of the same enclosed herewith as <b>Annexure No.5</b></p>
vii.	The State Government, Maharashtra/ Nodal Officer (FCA), Maharashtra shall ensure settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (No. 2 of 2007) before issuing an order for handing over of forest land to the User Agency as per Rule- 9 (6) (b) (ii) of Forest (Conservation) Rules, 2022 dated 28.06.2022	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>FRA certificate area 0.1664 ha. is attached as <b>Annexure No.6</b></p>
viii.	To improve the Forest/ Tree cover and to reduce pollution in the State, as mandated in National Forest Policy, 1988 and Environmental (Protection) Act, 1986 respectively, the User Agency with involvement of Joint Forest Management Committees	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an</p>



	(JFMC's) and in consultation with local DCF shall raise at least 500 seedlings of forestry species along with bamboo, fruit bearing, medicinal, ornamental and indigenous/local for 10 years. At least 50% of seedlings shall be planted in the vicinity of project area and remaining 50% of seedlings shall be distributed among villagers as per choice of villagers. The concerned JFMC's shall maintain record of plantation/ seedling distribution to villagers;	undertaking attached herewith as <b>Annexure No.7</b>
ix.	The trees having bird nests shall not be felled without written permission from the DCF concern both in forest as well as non--forest land;	The Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 & 24/03/2025 has submitted compliance report as follows:-  The User Agency has submitted an undertaking attached herewith as <b>Annexure No.8</b>
x.	Project specific Wildlife Management Plan with special emphasis on avian fauna dully approved by PCCF (Wildlife) shall be submitted along with Stage- I compliance report;	The Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 & 24/03/2025 has submitted compliance report as follows:-  The User Agency has submitted Wild life Conservation Plan which is enclosed as <b>Annexure No.9</b>
xi.	Speed regulating signage with wildlife protection will be erected at suitable places in consultation with park management;	The Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 & 24/03/2025 has submitted compliance report as follows:-

		The User Agency has submitted an undertaking attached herewith as <b>Annexure No.10</b>
xii.	As per recommendation of State Government, User Agency shall obtain prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP) before commencement of road work and copy of the same shall be submitted to Regional Office, MoEF&CC, Nagpur along with Stage- I compliance report;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has obtained prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP). Copy of the same is enclosed herewith as <b>(Annexure No.11)</b></p>
xiii.	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has mentioned in compliance letter dated 08/01/2025 that the proposed project is exempted from obtaining the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986.</p>
xiv	The layout plan of the proposal shall not be changed without prior approval of Central Government;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.12</b></p>
xv.	No labour camp shall be established on the forest land;	The Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West



		<p>Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.13</b></p>
xvi.	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.14</b></p>
xvii.	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.15</b></p>
xviii.	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.16</b></p>
xix.	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life,	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p>

	whichever is less;	The User Agency has submitted an undertaking attached herewith as <b>Annexure No.17</b>
xx.	The forest land shall not be used for any purpose other than that specified in the project proposal;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.18</b></p>
xxi.	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.19</b></p>
xxii.	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the MoEF&CC Guideline F. No. 11-42/2017- FC dt 29/01/2018;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an undertaking attached herewith as <b>Annexure No.20</b></p>
xxiii.	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife;	<p>The Chief Conservator of Forests &amp; Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 &amp; 24/03/2025 has submitted compliance report as follows:-</p> <p>The User Agency has submitted an</p>

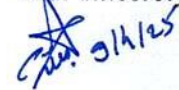


		undertaking attached herewith as <b>Annexure No.21</b>
xxiv	The compliance report shall be uploaded on e-portal ( <a href="https://parivesh.nic.in">https://parivesh.nic.in</a> );	The Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali and APCCF, Wildlife West Mumbai vide letter dated 15.01.2025 & 24/03/2025 has submitted compliance report as follows:-  The compliance is being submitted online on Parivesh Portal.

This is for your information and further needful action.

Encl : As above

Your sincerely



(Naresh Zurmure)

**Addl. Principal Chief Conservator of Forests  
& Nodal Officer**

Copy submitted to the Additional Chief Secretary (Forests), Revenue & Forest Department,  
Mantralaya Mumbai -32 for information.

Copy to the Additional Principal Chief Conservator of Forests, Wildlife West, Mumbai  
for information.

Copy to the Chief Conservator of Forests & Director, Sanjay Gandhi National Park, Borivali  
for information.

Copy to the Deputy Chief Engineer, Brihanmumbai Municipal Corporation for  
information.



☎:022-28692668/ 28692596  
apccfwlmumbai@mahaforest.gov.in



महाराष्ट्र शासन  
महसूल व वन विभाग  
अपर प्रधान मुख्य वनसंरक्षक  
वन्यजीव पश्चिम प्रदेश मुंबई  
जुनी एम.एच.बी. कॉलनी, एल.टी.रोड,  
बोरीवली (पश्चिम), मुंबई - 400091



जा.क्र.कक्ष-3/जमीन/FCA/प्र.क्र.121/1020 /2024-25

दिनांक - 24 /03/ 2025

पत्र/ईमेलव्दारे

प्रति,

अपर प्रधान मुख्य वनसंरक्षक व केंद्रस्थ अधिकारी,  
महाराष्ट्र राज्य, नागपूर

**विषय :** Diversion of 0.0728 ha. Forest land for widening of existing Shri. Krishna Nagar Bridge near Western Express Highway, Borivali East, in R/Central Ward, Municipal Corporation of Greater Mumbai.

**संदर्भ :** 1) Ministry of Environment, Forest & Climate Change, Regional Office, Nagpur's Letter no.FC-I/MH-332/2023-NGP/12002, दि.08/08/2023.  
2) मुख्य वनसंरक्षक व संचालक, संजय गांधी राष्ट्रीय उद्यान, बोरीवली यांचेकडील पत्र क्र.कक्ष-2/जमीन/754, दि.15/01/2025.

विषयांकित प्रस्तावास संदर्भ क्र.1 अन्वये 1 ते 24 अटींवर तत्वतः मंजूरी प्रदान करण्यात आली होती. आता मुख्य वनसंरक्षक व संचालक, संजय गांधी राष्ट्रीय उद्यान, बोरीवली यांनी मुद्दे निहाय पूर्तता अहवाल प्रकल्प यंत्रणेकडून प्राप्त करून घेऊन संदर्भीय पत्र क्र.2 अन्वये या कार्यालयास सादर केला आहे.

2.00 तरी मुख्य वनसंरक्षक व संचालक, संजय गांधी राष्ट्रीय उद्यान, बोरीवली यांचेकडील मुद्देनिहाय पूर्तता अहवाल पुढील कार्यवाहीसाठी व औपचारिक अनुमोदनासाठी आपलेकडे पाठविण्यात येत आहे.

सहपत्र : वरीलप्रमाणे.

*(Signature)*  
( डॉ. व्ही. क्लेमेंट बेन )

अपर प्रधान मुख्य वनसंरक्षक  
वन्यजीव पश्चिम प्रदेश  
मुंबई

प्रत : मुख्य वनसंरक्षक व संचालक, संजय गांधी राष्ट्रीय उद्यान, बोरीवली यांना माहिती व योग्य त्या कार्यवाहीसाठी.

प्रत : Deputy Chief Engineer, Brihanmumbai Municipal Corporation यांना माहिती व योग्य त्या कार्यवाहीसाठी.



OFFICE OF THE CHIEF CONSERVATOR OF FORESTS & DIRECTOR  
SANJAY GANDHI NATIONAL PARK, BORIVALI

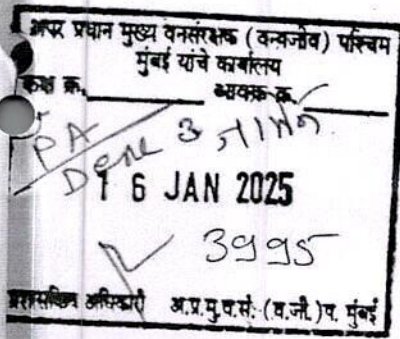
☎ 022-28850364, Email : ccfsnnp@mahaforest.gov.in

No. Desk-2/Land/754 /2024-25, dated 15 January, 2025

To, ✓  
Additional Principal Chief Conservator of Forests  
(Wildlife) West, Mumbai.

Sub: Diversion of 0.0728 Ha. forest land for widening of existing Shri Krishna Nagar Bridge near Western Express Highway, Borivali(East) at Village Kanheri, Taluka Borivali, District Mumbai Suburban in the State of Maharashtra-regarding.

- Ref: 1) Ministry of Environment, Forest & Climate Change, Regional Office, Nagpur's letter No. FC-I/MH-332/2023-NGP/12002, dt. 08.08.2023  
2) Deputy Chief Engineer (Bridges) Western Suburbs, Brihanmumbai Municipal Corporation's letter No. Dy.Ch.E./9804/Bridges/W.S., dated 31.10.2023  
3) This office letter No. Desk-2/Land/742/2023-24, dated 07.11.2023  
4) Deputy Chief Engineer (Bridges) Western Suburbs, Brihanmumbai Municipal Corporation's letter No. Dy.Ch.E./1874/Bridges/W.S., dated 03.01.2024  
5) This office letter No. Desk-2/Land/960/2023-24, dated 19.01.2024  
6) Assistant Engineer, Bridges, Brihanmumbai Municipal Corporation's letter No. Ch.E./16696/Bridges/ dated 08.01.2025



The Ministry of Environment, Forest and Climate Change (MoEF&CC), Integrated Regional Office, Nagpur, vide its letter referenced at Ref. 1, has accorded Stage-I approval to the proposal cited in the subject. Subsequently, the user agency, vide their letter under Ref. 2, submitted a compliance report addressing the conditions outlined in the Stage-I approval letter. Based on this submission, a condition-wise compliance report was submitted vide Ref. 3. Following this, the user agency, through their letter mentioned at Ref. 4, submitted a compliance report addressing the two queries raised by the Additional Principal Chief Conservator and Nodal Officer, Nagpur, in their letter dated 06.12.2023. Accordingly, this office, vide its letter referenced at Ref. 5, submitted the compliance report on these two queries.

Now, the user agency, through their communication referenced at Ref. 6, has submitted a compliance report covering all the conditions mentioned in the Stage-I approval letter. Based on this report, the condition-wise compliance status is provided below:

Sr. No.	Condition	Compliance
1	Legal status of the forest land shall remain unchanged.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-I</b> .



II	<b>Compensatory Afforestation</b> 150	
a	<p>Compensatory afforestation shall be taken up by the Forest Department over 1.00 ha Degraded Forest Land in Survey No. 419, Compartment no. 1144 at Village Panchpakhadi,</p> <p>Taluka- Thane, District- Thane at the cost of the User Agency. As far as possible, a mixture of local indigenous species along with 10% RET species of Thane District shall be planted and monoculture of any species may be avoided. At least one water body shall be constructed in the form of tank/ stop dams etc if the same are not available in the area or in nearby vicinity. Further, if existing tank/ stop dams are available and needs desilting/ repair, same shall be carried out to meet the water requirement of wild animals throughout the year.</p>	<p>The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-II</b>.</p>
III	<p>The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars if required on the CA land shall be deposited in advance with the Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.</p>	<p>The user agency has deposited Rs. 8,04,884/- towards the cost of compensatory afforestation in CAMPA Account.</p> <p>UTR No. <b>BARBR52023102600982681</b></p>
IV	<b>NPV</b>	
a	<p>a) The State Government shall charge the Net Present Value (NPV) for the 0.0728 ha forest area to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA. No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt.II)</p>	<p>The user agency has deposited Rs. 81,310/- towards the Net Present Value of forest land proposed for diversion in CAMPA Account.</p> <p>UTR No. <b>BARBR52023102600982681</b></p>



	dated 18/09/2003, letter No. 5-2/2006-FC dated 03/10/2006, letter No. 5-3/2007- FC dated 05/02/2009, letter No. 5-3/2011-FC(Vol-I) dated 06.01.2022 and letter No. 5-3/2011-FC(Vol-I) dated 22.03.2022 in this regard.	
b	Additional amount of the NPV of the divelled forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Coml of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.	Brihanmumbai Municipal Corporation (BMC) accepts the condition to pay additional amount of the NPV of the diverted forest land, if any, becoming due after Finalization of the same by the Hon'ble Supreme Court of India on receipt of the report From the Expert Committee. Undertaking of the same is attached as <b>Annexure-III</b> .
V	User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department and the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure IV</b> . The user agency has deposited the cost of felling of tress to this office vide <b>demand draft No.: 050752</b>
VI	All the funds received from the user agency under the project shall be transferred/deposited to CAMPA fund only through <i>e-portal</i> ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ).	The user agency has deposited funds such as NPV, Compensatory Afforestation Cost etc. through E-Challan on PARIVESH in the Campa account. Payment Receipt of the same is enclosed herewith as <b>Annexure-V</b> .
VII	The State Government, Maharashtra/ Nodal Officer (FCA), Maharashtra shall ensure settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (No. 2 of 2007) before issuing an order for handing over of forest land to the User Agency as per Rule-9 (6) (b) (ii) of Forest (Conservation) Rules, 2022 dated 28.06.2022.	FRA certificate is attached as <b>Annexure-VI</b> .
VIII	To improve the Forest/ Tree cover and to reduce pollution in the State, as mandated in National Forest Policy, 1988 and Environmental (Protection) Act, 1986 respectively, the User Agency with involvement	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-VII</b> .



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	of Joint Forest Management Committees (JFMC's) and in consultation with local DCF shall raise at least 500 seedlings of forestry species along with bamboo, fruit bearing, medicinal, ornamental and indigenous/local for 10 years. At least 50% of seedlings shall be planted in the vicinity of project area and remaining 50% of seedlings shall be distributed among villagers as per choice of villagers. The concerned JFMC's shall maintain record of plantation/ seedling distribution to villagers:	
IX	The trees having bird nests shall not be felled without written permission from the DCF concern both in forest as well as non-forest land.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-VIII</b> .
X	Project specific Wildlife Management Plan with special emphasis on avian fauna duly approved by PCCF (Wildlife) shall be submitted along with Stage- I compliance report.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure- IX</b> .
XI	Speed regulating signage with wildlife protection will be erected at suitable places in consultation with park management.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-X</b> .
XII	As per recommendation of State Government, User Agency shall obtain prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP) before commencement of road work and copy of the same shall be submitted to Regional Office, MoEF &CC, Nagpur along with Stage- I compliance report.	The user agency has obtained prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP). Copy of the same is attached here with as <b>Annexure- XI</b>
XIII	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable.	The user agency vide letter mentioned at Ref. 2 has informed that the Proposed Project is exempted from obtaining the Environment Clearance as per the provisions of the Environmental (Protection), Act, 1986.
XIV	The layout plan of the proposal shall not be changed without prior approval of Central Government.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is



		enclosed herewith as <b>Annexure-XII</b>
XV	No labour camp shall be established on the forest land.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XIII</b>
XVI	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XIV</b>
XVII	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XV</b>
XVIII	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XVI</b>
XIX	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XVII</b>
XX	The forest land shall not be used for any purpose other than that specified in the project proposal.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XVIII</b>
XXI	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XIX</b>
XXII	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the MoEF & CC Guideline F. No. 11-42/2017- FC dt 29/01/2018.	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XX</b>
XXIII	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is



	time in the interest of conservation, protection and development of forests & wildlife.	enclosed herewith as <b>Annexure-XXI</b> c e b
XXIV	The compliance report shall be uploaded on e-portal ( <a href="https://parivesh.nic.in">https://parivesh.nic.in</a> )	The user agency has accepted the condition and submitted an undertaking for the same. The undertaking is enclosed herewith as <b>Annexure-XXII</b>

Four sets of annexures are enclosed herewith. The user agency has complied with the conditions specified in the in-principle approval letter. It is, therefore, requested that the proposal be submitted to the competent authority for formal approval under the Forest (Conservation) Act, 1980.



(G. Mallikarjuna)

Encl : As above.

**Chief Conservator of Forests & Director,  
Sanjay Gandhi National Park, Borivali**

Copy forwarded with compliments to Deputy Chief Engineer, Brihanmumbai Municipal Corporation for information and necessary action.



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**BRIHANMUMBAI MUNICIPAL CORPORATION**  
**NO. Ch.E. /16646/ Bridges/ dated 08 / 01 /2025**

Office of the -  
Chief Engineer (Bridges)  
Engineering Hub Building,  
Zero floor, Dr. E. Moses  
Road, Worli,  
Mumbai-400 018.  
24958001, 24958101

To,  
The Conservator of Forests & Director  
Sanjay Gandhi National Park, Borivali East  
Mumbai-400066.

**Sub:** Diversion of 0.0728 ha. forest land for widening of existing Shri Krishna Nagar Bridge near Western Express Highway, Borivali (East) at Village- Kanheri, Taluka-Borivali, District- Mumbai Suburban in the State of Maharashtra.

**Ref:** (i) MoEF & CC letter F.No. FC-I/MH-332/2023-NGP /12002

With respect to the given reference of the proposal, the Central Government has accords 'in- principle' under Section - 2 of the Forest (Conservation) Act, 1980 for Diversion of 0.0728 ha. forest land for widening of existing Shri Krishna Nagar Bridge near Western Express Highway, Borivali (East) at Village- Kanheri, Taluka- Borivali, District- Mumbai Suburban in the State of Maharashtra subject to the fulfilment of the following conditions. Brihanmumbai Municipal Corporation hereby submit point wise compliance to the conditions in the above referred letter.

Sr. No.	Condition	Compliance
I	Legal status of the forest land shall remain unchanged.	Noted. Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-I</b> .
II	<b>Compensatory Afforestation</b>	
a	Compensatory afforestation shall be taken up by the Forest Department over 1.00 ha Degraded Forest Land in Survey No. 419, Compartment no. 1144 at Village Panchpakhadi, Taluka- Thane, District- Thane at the cost of the User Agency. As far as	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-II</b> .

	possible, a mixture of local indigenous species along with 10% RET species of Thane District shall be planted and monoculture of any species may be avoided. At least one water body shall be constructed in the form of tank/ stop dams etc if the same are not available in the area or in nearby vicinity. Further, if existing tank/ stop dams are available and needs desilting/ repair, same shall be carried out to meet the water requirement of wild animals throughout the year.	
III	The cost of compensatory afforestation at the prevailing wage rates as per compensatory afforestation scheme and the cost of survey, demarcation and erection of permanent pillars if required on the CA land shall be deposited in advance with the Forest Department by the project authority. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years.	Brihanmumbai Municipal Corporation (BMC) has already paid the cost towards Compensatory afforestation to MAHARASHTRA CAMPA over 1.00 ha. degraded forest land at Survey no. 4 in Village- Sarang, Taluka- Bhiwandi, District- Thane and cost of survey, demarcation and erection of permanent pillars if required on the CA land. UTR No. of the same is <b>BARBR52023102600982681</b>
IV	<b>NPV</b>	
a	a) The State Government shall charge the Net Present Value (NPV) for the 0.0728 ha forest area to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 30/10/2002, 01/08/2003, 28/03/2008, 24/04/2008 and 09/05/2008 in IA. No. 566 in WP (C) No. 202/1995 and as per the guidelines issued by the Ministry vide letters No. 5-1/1998-FC (Pt.II) dated 18/09/2003, letter No. 5-2/2006-FC dated 03/10/2006, letter No. 5-3/2007- FC dated 05/02/2009, letter	Brihanmumbai Municipal Corporation (BMC) has already paid the cost towards Net Present Value (NPV) for the 0.0728 ha. forest area to be diverted under this proposal. UTR No. of the same is <b>BARBR52023102600982681</b>



	No. 5-3/2011-FC(Vol-I) dated 06.01.2022 and letter No. 5-3/2011-FC(Vol-I) dated 22.03.2022 in this regard.	
b	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.	Brihanmumbai Municipal Corporation (BMC) accepts the condition to pay additional amount of the NPV of the diverted forest land, if any, becoming due after Finalization of the same by the Hon'ble Supreme Court of India on receipt of the report From the Expert Committee. Undertaking of the same is attached as <b>Annexure-III</b> .
V	User agency shall restrict the felling of trees to minimum number in the diverted forest land and the trees shall be felled under the strict supervision of the State Forest Department and the cost of felling of trees shall be deposited by the User Agency with the State Forest Department.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of which is attached in in <b>Annexure IV</b> . The cost of the felling of trees is already deposited to Director & conservator of forest, Sanjay Gandhi National Park by <b>demand draft No.: 050752</b>
VI	All the funds received from the user agency under the project shall be transferred/deposited to CAMPA fund only through <i>e-portal</i> ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ).	Brihanmumbai Municipal Corporation (BMC) has already submitted all the required funds such as NPV, Compensatory Afforestation Cost etc. through E-Challan on PARIVESH in the Campa account. Payment Receipt of the same is attached as <b>Annexure-V</b> .
VII	The State Government, Maharashtra/ Nodal Officer (FCA), Maharashtra shall ensure settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (No. 2 of 2007) before issuing an order for handing over of forest land to the User Agency as per Rule- 9 (6) (b) (ii) of Forest (Conservation) Rules, 2022 dated 28.06.2022.	FRA certificate is attached as <b>Annexure-VI</b> .
VIII	To improve the Forest/ Tree cover and to reduce pollution in the State, as mandated in National Forest Policy,	Brihanmumbai Municipal Corporation (BMC) accepts the condition and



	1988 and Environmental (Protection) Act, 1986 respectively, the User Agency with involvement of Joint Forest Management Committees (JFMC's) and in consultation with local DCF shall raise at least 500 seedlings of forestry species along with bamboo, fruit bearing, medicinal, ornamental and indigenous/local for 10 years. At least 50% of seedlings shall be planted in the vicinity of project area and remaining 50% of seedlings shall be distributed among villagers as per choice of villagers. The concerned JFMC's shall maintain record of plantation/ seedling distribution to villagers;	undertaking of the same is attached as <b>Annexure-VII.</b>
IX	The trees having bird nests shall not be felled without written permission from the DCF concern both in forest as well as non-forest land.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-VIII.</b>
X	Project specific Wildlife Management Plan with special emphasis on avian fauna dully approved by PCCF (Wildlife) shall be submitted along with Stage- I compliance report.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and specific Wildlife Management Plan is attached as <b>Annexure- IX.</b>
XI	Speed regulating signage with wildlife protection will be erected at suitable places in consultation with park management.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-X.</b>
XII	As per recommendation of State Government, User Agency shall obtain prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP) before commencement of road work and copy of the same shall be submitted to Regional Office, MoEF &CC, Nagpur along with Stage- I compliance report.	Brihanmumbai Municipal Corporation (BMC) has obtained prior permission of monitoring committee of ESZ of Sanjay Gandhi National Park (SGNP) and copy of the same is attached here with. <b>Annexure- XI</b>
XIII	User Agency shall obtain Environmental Clearance as per the	The Proposed Project is exempted for obtaining the Environment Clearance as



	provisions of the Environmental (Protection) Act, 1986, if applicable.	per the provisions of the Environmental (Protection), Act, 1986.
XIV	The layout plan of the proposal shall not be changed without prior approval of Central Government.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XII</b>
XV	No labour camp shall be established on the forest land.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XIII</b>
XVI	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XIV</b>
XVII	The boundary of the diverted forest land shall be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XV</b>
XVIII	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XVI</b>
XIX	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XVII</b>
XX	The forest land shall not be used for any purpose other than that specified in the project proposal.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XVIII</b>
XXI	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XIX</b>



XXII	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the MoEF & CC Guideline F. No. 11-42/2017- FC dt 29/01/2018.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XX</b>
XXIII	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife.	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XXI</b>
XXIV	The compliance report shall be uploaded on e-portal ( <a href="https://parivesh.nic.in">https://parivesh.nic.in</a> )	Brihanmumbai Municipal Corporation (BMC) accepts the condition and undertaking of the same is attached as <b>Annexure-XXII</b>

With above Compliance it is requested to grant the final Approval (Stage-2 Clearance) in accordance of the section 2 of the Forest (Conservation) Act, 1980 to initiate project work.

Thanking You

  
**(Sachin Sone)**  
**Asst Engineer, Bridges**  
**Brihanmumbai Municipal Corporation**

Enclosed; Undertakings and Annexures in 6 sets



**Undertaking**

For the Compliance of Condition No. I of Regional Office (WCZ) Nagpur MoEF & CC letter

FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake that Legal status of the diverted forest land will not be changed.



**(Sachin Sone)**

**Asst Engineer, Bridges**

**Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. II(a) of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake that Compensatory afforestation will be taken up by the Forest Department over 1.00 ha Degraded Forest Land in Survey No. 419, Compartment no. 1144 at Village Panchpakhadi, Taluka- Thane, District- Thane at the cost of the BMC. As far as possible, a mixture of local indigenous species along with 10% RET species of Thane District will be planted and monoculture of any species may be avoided. At least one water body will be constructed in the form of tank/ stop dams etc if the same are not available in the area or in nearby vicinity. Further, if existing tank/ stop dams are available and needs desilting/ repair, same shall be carried out to meet the water requirement of wild animals throughout the year.



(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. IV(b) of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake to pay additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report From the Expert Committee.

  
(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. V of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We, Brihanmumbai Municipal Corporation (BMC), hereby undertake that tree felling in diverted forest land will be limited to a minimum number of trees, that the trees will be felled under the strict supervision of the State Forest Department, and that the cost of tree felling will be deposited with the State Forest Department.



(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai



PARIVESH  
परिवेश

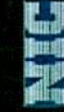
Ministry of Environment, Forest and Climate Change  
Government of India

"Pro Active and Responsive facilitation by Interactive, Virtuous and Environmental Singlewindow Hub"

My Account ▾ My Proposals Environment Clearance ▾ Only CRZ Clearance ▾ My Proposals Forest Clearance ▾ My Proposals Wildlife Clearance ▾ Help ▾

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Sno.	Proposal Detail	Application_No	Application No (New)	Date of IN- PRINCIPLE	Amount to be Paid/Amount Paid (In Rs.)				Payment Status	Payment Detail	Demand Letter
1	FP/MH/ROAD/155480/2022 Widening of existing Shri Krishna Nagar bridge	ROAD15548020227976	1155480797	08 Aug 2023	CA: 804884/-, PCA: 0/-, Safety Zone: 0/-, NPV: 81310/-, Other Charges1 : 0/- Other Charges2 : 0/- Other Charges3 : 0/- Total : 886194/-	Addl CA : 0/- CAT : 0/- Addl PA : 0/- Other Charges : 0/-		<div> Paid</div>	Fund Demand Verified by :13 Sep 2023 Nodal Officer On : Union Bank Of India Bank Name : NEFT/RTGS (Challan) Mode of Payment :13 Oct 2023 Challan Generated On :26 Oct 2023 Transaction Date	Demand Letter Generated Challan	



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27/12/2024

Annexure V

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Annexure VI

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**Office of the Collector, Mumbai Suburban District**Administrative Building, 10<sup>th</sup> Floor, Government Colony, Bandra (E), Mumbai-400 051

Office: 02269403333 Email: collector.mumbaisuburb@maharashtra.gov.in

No. C/Desk-21/FRA/WS-467/22

Date : 16/09/2024

**FORM-II****(For project other than linear projects)****Government of Maharashtra****Office of the District Collector Mumbai Suburban****TO WHOMSOEVER IT MAY CONCERN**

In compliance of the Ministry of Environment and Forest (MoEF) Government of India 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 right 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 purpose, it is certified that 0.1664 ha. of forest land proposed to be diverted in favor of **Deputy Chief Engineer (Bridges), Western Suburbs, Brihanmumbai Municipal Corporation for Widening of existing Shri Krishna Nagar Bridge** in Mumbai Suburban district falls within jurisdiction of Village **Kanheri** in **Borivali** tahsil.

It is further certified that :-

**Land detail**

Sr.No	Village	Taluka	S. NO.	CTS No.	Area in ha.
1.	Kanheri	Borivali	11pt.	-	0.1664
<b>Total</b>					<b>0.1664ha</b>

- The complete process for identification and settlement of right under the FRA has been carried out for the entire 0.1664ha of forest land proposed for diversion. A copy of records of all consultation and meeting of the Forest Right Committee (Ward Samittee) are enclosed as Annexure - 01
- The proposal for such diversion (with full details of the project and its implications, in vernacular / local language) have been placed before Ward Samittee where forest dwellers are not found.
- The each of concerned Ward Samittee has certified that all formalities /processes under the FRA have been carried out and that they have given their consent to the proposed diversion and the compensation and ameliorative measures, if any having understood the purpose and details of proposed diversion. A copy of certificate issued by the Ward Samittee. (are enclosed as Annexure 01)
- The discussion and decisions on such proposals had taken place only when there was a quorum of minimum 50% of the members of Ward Samittee.
- The diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed and Ward Samittee have given their consent to it.
- The Proposal does not involve recognized rights of Primitive Tribal Groups and Pre-agricultural communities, as per section 3(1) (e) of the FRA

**Note :** This certificate is issued on the basis of enquiry report of 1) Report of Sub Divisional Committee, Mumbai Western Suburb bearing No. Uvia/M.S.D./Karya-5/FRA-Kanheri/2024 dated 03/09/2024

2) Enquiry report of Assistant commissioner, R/ Center Ward, Municipal Corporation Greater Mumbai bearing No.AMC/R-Center/2394/JAN/SAP dated 22/05/2024

Encl. As above



(Rajendra Kshirsagar)  
Collector, Mumbai Suburban

**Copy to :** Deputy Chief Engineer (Bridges), Western Suburbs, Brihanmumbai Municipal Corporation, Engineering Hub Building, Ground Floor, Dr. B. Moses Road, Worli naka, Worli, Mumbai- 400 018

**Undertaking**

For the Compliance of Condition No. VIII of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake to improve the Forest/ Tree cover and to reduce pollution in the State, as mandated in National Forest Policy, 1988 and Environmental (Protection) Act, 1986 respectively, For a period of ten years, with the participation of Joint Forest Management Committees (JFMCs) and in consultation with local DCF, at least 500 seedlings of forestry species, as well as bamboo, fruit yielding, medicinal, ornamental, and indigenous/local species, will be raised. At least 50% of the seedlings shall be planted in the project area, with the remaining 50% allocated to villages based on their preferences. In non-existence of JFMCs any payment as directed by Director/Conservator of forest Sanjay Gandhi National Park will borne by BMC.



(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. IX of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/we, Brihanmumbai Municipal Corporation (BMC), hereby agree that trees with bird  
nests will not be felled without written permission from the DCF concerned, including in forest  
and non-forest land.



(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

---

**Wildlife Conservation Plan**

**for**

**Diversion of 0.0728 Ha Forest land for widening of existing Shri Krishna Nagar Bridge near Western Express Highway, Borivali (E), in R/Central ward.**

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# Chapter 1

## 1.1 Introduction

The Shri Krishna Nagar Bridge across Dahisar River near Sanjay Gandhi National Park Borivali East in R/Central ward is a vital link for people of Shri Krishna Nagar, CTIRC, Abhinav Nagar connecting to Western Express Highway. This bridge also carries vital link for communication, electricity & water supply for the locality. It was reported by Assistant Commissioner R/Central ward office on 12.11.2021 that portion of the footpath on south side has collapsed and is in dangerous condition. The office staff inspected the site and observed that the slab beneath the footpath has collapsed resulting into a hole in footpath. Also, the soffit of the bridge was inspected and it was observed that the slab reinforcement at the bottom is severely corroded, making the bridge unsafe. Accordingly, the said bridge has been closed for all types of traffic. The said bridge is required to be reconstructed.

The existing bridge width of the bridge is 26.00 M approximately. As per the recommendation it is proposed to maintain a clear width of 35.00 M or more to avoid flooding in the vicinity.

The Proposed Project is expansion of the existing Bridge on the land bearing S. No. 11(Pt.), of village Kanheri, Taluka Borivali, District Mumbai Suburban.

## 1.2 Aim

The current Wildlife Management Plan is focusing on the aspects of Biodiversity Management and wildlife protection in the Project site. The plan's main objective is to provide a relatively stress-free habitat for wildlife in the impact area and meet the basic needs of resident wildlife.

## 1.3 Objectives

The broad objectives this Wildlife Conservation Plan attempts to address are:

- To provide a relatively stress-free habitat to wildlife in the Impact Area that would be capable of meeting the basic needs of resident wildlife.
- To provide habitat supplement to spill over population of wild animals from Project Area to the Impact Area.
- To provide safe guarding measures and protection of wildlife from unsavoury elements.
- Providing site specific, need based, and participatory eco-development inputs to local stakeholders for reducing their resource dependency on forests and for eliciting their support towards conservation in the area.

- Capacity Building of local people, particularly Eco-Development Committee members.
- To provide the local Forest Department officials / staff with required resources to help implement this plan.
- While increasing man-animal conflict is an outcome of shrinkage, fragmentation and deterioration of habitats, it has caused destruction of wildlife and generated animosity against wild animals and protected areas. This is a crucial management issue, which needs to be addressed through innovative approaches.

#### 1.4 Brief of the study

Widening of the existing bridge is required and it was reported by Assistant Commissioner R/Central ward office on 12.11.2021 that portion of the footpath on south side has collapsed and is in dangerous condition. The office staff inspected the site and observed that the slab beneath the footpath has collapsed resulting into a hole in footpath.

Also, the soffit of the bridge was inspected and it was observed that the slab reinforcement at the bottom is severely corroded, making the bridge unsafe. Accordingly, the said bridge has been closed for all types of traffic. The said bridge is required to be reconstructed.

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#### 1.5 Mumbai Suburban

Mumbai is on a narrow peninsula on the southwest of Salsette Island, which lies between the Arabian Sea to the west, Thane Creek to the east and Vasai Creek to the north. Mumbai's suburban district occupies most of the island. Navi Mumbai is east of Thane Creek and Thane is north of Vasai Creek. Mumbai consists of two distinct regions: Mumbai City district and Mumbai Suburban district, which form two separate revenue districts of Maharashtra. The city district region is also commonly referred to as the Island City or South Mumbai. The total area of Mumbai is 603.4 km<sup>2</sup>. Of this, the island city spans 67.79 km<sup>2</sup>, while the suburban district spans 370 km<sup>2</sup>, together accounting for 437.71 km<sup>2</sup> under the administration of Municipal Corporation of Greater Mumbai (MCGM). Administrative wise, the district comprises of 3 tehsils- Kurla, Andheri and Borivali. The district has 5 Lok Sabha constituencies and 28 Assembly seats. The administrative language in the district is Marathi. According to 2011



census the district has a population of 93,56,962 including 50,31,323 are males and 43,25,639 are females. The district has a sex ratio of 860 females for every 1000 male. Mumbai Suburban district was created on 1 October 1990 when Mumbai district was bifurcated into Mumbai City and Mumbai Suburban districts. Many important places have adorned the beauty of this district, including Mount Mary Church, Jogeshwari Caves, Mahakali Caves, Essel World, Water Kingdom, Marve Beach, Aksa Beach, Madh Island, Sanjay Gandhi National Park, Aarey Colony, Kanheri Caves, Film City, Tulsi Lake, Vihar Lake and Powai Lake.

Mumbai & Mumbai Suburban area is highly urbanized & most of the industries are located in mix area. Mainly Textiles, Dyes, Fertilizer, Thermal power, Oil refineries and Pharmaceuticals large & medium scale unit are operational in Mumbai. The SSI unit such as Engineering, Chemical, Pharmaceutical, Electronic, Electrical etc are also located in industrial estates & other area in the jurisdiction. Due to ban on expansion in Mumbai area & recession, Textile units, Dyes & Basic drugs have shifted to adjoining area or closing down their operations in city area. The land use pattern also changing & converted in to residential/commercial complex.



FIGURE 1- PROPOSED BRIDGE

#### Salient Features of the Bridge

- Total Bridge Length: 41.5 M
- Total Bridge width: 21.3 M
- Lane Configuration: 2 + 2 lanes
- Footpath: 1.5 M on either side
- Space for Utilities: 1.70 M on one side
- Approaches with Solid Ramp
- Is the Bridge Railway Over Bridges: No
- Any Tunnels: No
- Any Vehicular Underpass: No



## Chapter 2

### Protected Areas, Natural drainage and water bodies

Protected areas are those in which human occupation or at least the exploitation of resources is limited. The definition that has been widely accepted across regional and global frameworks has been provided by the International Union for Conservation of Nature (IUCN) in its categorization guidelines for protected areas. There are several kinds of protected areas, which vary by level of protection depending on the enabling laws of each country or the regulations of the international organizations involved. The term "protected area" also includes Marine Protected Areas, the boundaries of which will include some area of ocean, and Transboundary Protected Areas that overlap multiple countries which remove the borders inside the area for conservation and economic purposes.

### 2.1 Dahisar River

The bridge falls across the Dahisar River. Dahisar river is one of the important rivers of western suburban of Mumbai with total catchment area of 3488 hectares with annual rainfall 1685mm. Field observations indicated that the river also suffered from dumping of debris from construction activities, industrial wastes on the banks, and disposal of waste matter. Ingress encroachments from the bank as well as modification of river course and local diversion of streams have compounded by the risk of flooding. The path of Dahisar river has narrowed due to large number of human settlements throwing waste matter in river. Sanjay Gandhi national park is a protected area in Borivali, Mumbai in state of Maharashtra. It occupies 87km<sup>2</sup> area. Dahisar river flows roughly North west through National Park, Sri Krishna nagar, Daulat Nagar, Leprosy Colony, Kandarpada, Sanjay Nagar and Dahisar Gaothan before meeting Arabian sea via Manori Creek occupying length of 12km. Its basin size is 34.88km<sup>2</sup>. Upper stream of boating area where water flows from Tulsi lake in Sanjay Gandhi National Park was selected for the present investigation because this park has very rich biodiversity at this place. The texture of the sediment is loamy and slightly silts. It has small hilltops and the place is richly surrounded by the various types of trees.

The Project site falls in the Eco sensitive Zone of Sanjay Gandhi National Park. The reconstruction of the bridge to be executed is across the Dahisar river near the Sanjay Gandhi national park. Residential areas, encroachment areas, stables, and Dhobi ghats surround the

Dahisar river. Waste is drained into the river through them. This is one of the Major causes of the pollution of the river. The biological oxygen demand at Kulupwadi nalla sampling station is 128.96mg/L indicating high water pollution. Higher BOD indicates more oxygen is required, which is less for oxygen-demanding species to feed on, and signifies lower water quality.

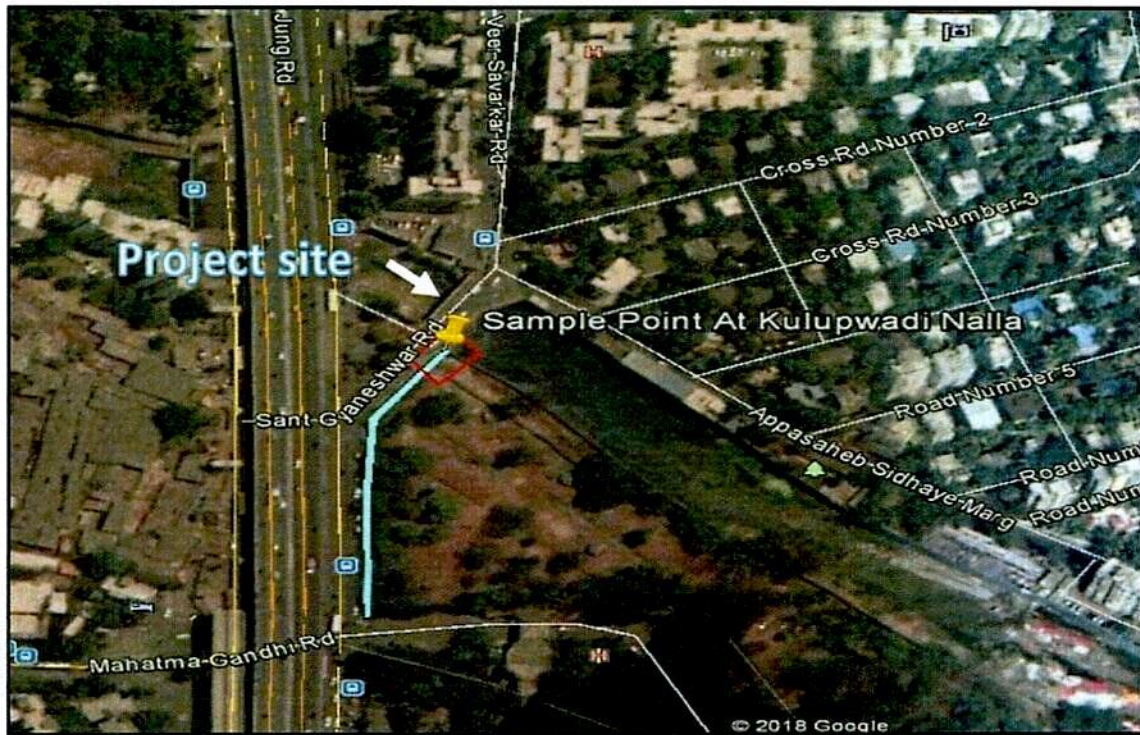


FIGURE 2: DAHISAR RIVER SAMPLING SITE

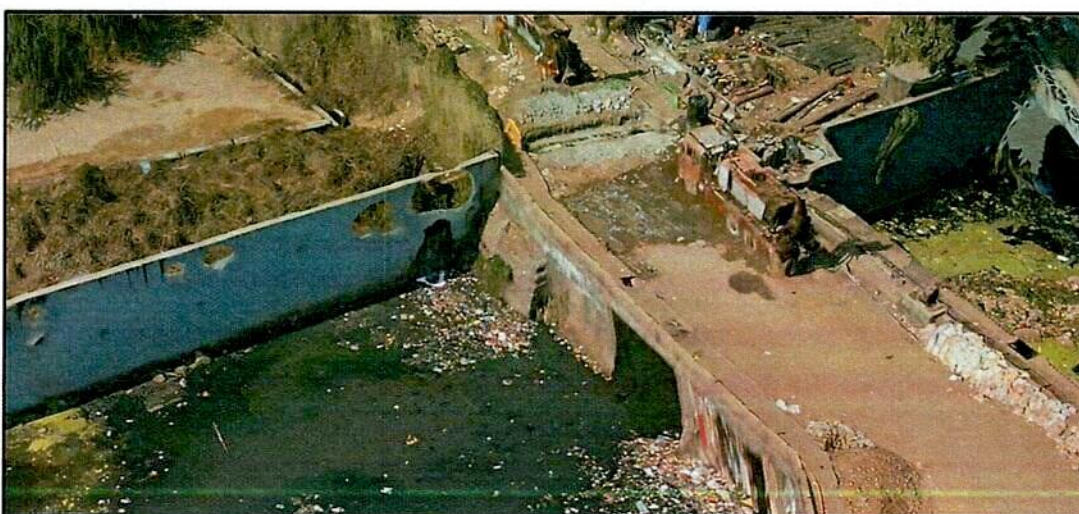




**FIGURE 4- COW DUNG DUMPING IN THE DAHISAR RIVER NEAR THE PROJECT SITE  
FROM SURROUNDING STABLES**



**FIGURE 5- DHOBI GHAT NEAR THE PROJECT SITE**



**FIGURE 3- KULUPWADI SEWAGE OUTFALL**



## 2.2 Sanjay Gandhi National Park

Falls within the suburban region of Mumbai. It covers 87 sq. KM of land, out of which 34 sq.KM is the core protected zone. More than 2 million visitors pay a visit to Sanjay Gandhi National Park every year. The 2400-year-old Kanheri caves, sculpted by monks out of the rocky basaltic cliffs, lie within the park. The Kanheri caves, located centrally in the park, were important Buddhist learning centres and pilgrimage sites sculpted by Buddhist monks between the 9th and the 1st centuries BCE. They were chiselled out of a massive basaltic rock outcropping. In 1996, the park was renamed to its current title, Sanjay Gandhi National Park, after Sanjay Gandhi. The same year, some forests from the Thane division were merged into the park, further expanding its total area to 103.84 km<sup>2</sup>. The Park occupies most of the northern suburbs of Mumbai. To the west lie the suburbs of Goregaon, Malad, Kandivali, Borivali and Dahisar. To the east lie the suburbs of Bhandup and Mulund. To the south lies the Aarey Milk Colony and the university campus of IIT Bombay. The northern reaches of this forest lie in Thane city. The Park and the areas surrounding it, except Thane city, are all part of Mumbai. It is the only protected forest located within the limits of a city. This Park is home to a number of endangered species of flora and fauna. The forest area of the park houses over 1,000 plant species, 251 species of migratory, land, and water birds, 5,000 species of insects, and 40 species of mammals. In addition, the park also provides shelter to 38 species of reptiles, 9 species of amphibians, 150 species of butterflies, and a large variety of fish.

Kadamba, teak, karanj, shisham, and species of acacia, ziziphus, euphorbia, flame of the forest, red silk cotton tree, and a number of other varieties of flowers. The karvi (or karvy) shrub, as it is locally called in the Marathi language, only blooms once in eight years in a mass flowering covering the forest floor in a lavender blush. It grows in abundance in the Western Ghats hills near Mumbai and throughout the Sanjay Gandhi National Park as in other parts of its natural range.

The region is hilly with elevations between 30 and 480 m (98 and 1,575 ft). The Park has two lakes, Vihar Lake and Tulsi Lake, which meet a part of the city's water requirements. The Park is said to be the lungs of the city as it purifies much of the air pollution in the city.

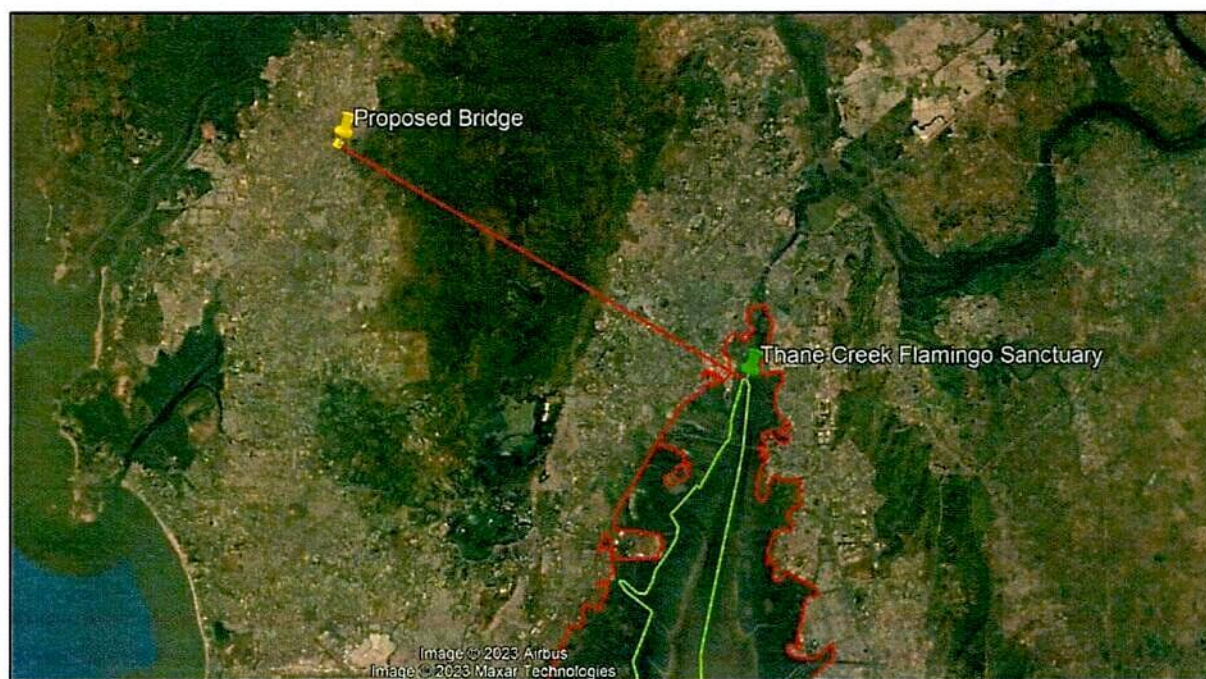
## 2.3 Thane creek flamingo Sanctuary

Thane Creek (or Thana Creek) is an inlet in the shoreline of the Arabian Sea that isolates the city of Mumbai from the Konkan region of the Indian mainland. It comprises the area between



Mumbra Retibunder and the Mankhurd-Vashi Bridge. The creek is divided into two parts. The first part lies between Ghodbunder and Thane (Thana), a section from where the Ulhas River flows from the north of Mumbai Island to meet the Arabian Sea on the west. The second part of the waterway lies between the city of Thane and the Arabian Sea at Trombay / Uran, before the Gharapuri islands. Thane Creek was formed due to a seismic fault lying below it which runs from Uran to Thane. Part of the 26km Thane creek is the Thane creek flamingo Sanctuary. Thane Creek has been recognized as an Important Bird Area by the Bombay Natural History Society, as it is home to various avian species. In particular, it harbors populations of flamingos and several other migratory and wading birds. The area has been designated as a protected Ramsar site since 2022.

Thane creek flamingo Sanctuary encompasses more than 1600 hectares of mudflats, mangroves, and water body between Vashi and Airoli. The area was declared a flamingo sanctuary in 2015 and is home to substantial bird life - both residential and migratory. In 2017, the Coastal and Marine Biodiversity Centre was established in the area



**FIGURE 6- AERIAL DISTANCE OF THE PROPOSED BRIDGE FROM THANE CREEK FLAMINGO SANCTUARY IS APPROXIMATELY 16.1KM.**

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**TABLE 0-1- DETAILS OF THE FOREST LAND PROPOSED FOR DIVERSION**

<b>Sr. No.</b>	<b>Components</b>	<b>Area required (Ha)</b>	<b>Survey/ CTS No.</b>	<b>Village</b>	<b>Taluka</b>	<b>District</b>	<b>Legal Status</b>
1	Widening of the existing bridge	0.0728	11 Pt	Kanheri	Borivali	Mumbai Suburban	Un-classified forest
<b>Total area in Hectare</b>		<b>0.0728</b>					



## Chapter 3

### 3.1 Project Impact and Conservation Plan for the Impacted Area

This section includes study reports on the impact of the project on the environment in general, including soil, vegetation, water regime and animals. This section addresses the possible threats on account of project implementation and the study techniques adopted.

Proposed project is not likely to affect any monumental site of cultural, historical, religious, archaeological or recreational importance. There is no violation of Forest (Conservation) Act, 1980. 12). Proposed project is within 10 Km of Sanjay Gandhi National Park However the project will not have any adverse effect on the wildlife within National Park/Sanctuary. The non-forest area covered under the project is not under the provision of Maharashtra Private Forest (Acquisition) Act 1975 by virtue of application of Section 35 of Indian Forest Act 1927 and are not recognized as deemed reserved forest as well as not included in the area identified as "forest" as per dictionary meaning of forest as intimated to the expert committee appointed under interim judgment of the Hon'ble Supreme Court dated 12/12/1996. Proposed Compensatory Afforestation over 1.00 ha. in Survey No.419 Compt. No.1144 at Village Panchpakhadi, Tal & Dist. Thane and it is contiguous, suitable for afforestation and management purpose and it is free from encroachment and an encumbrance. There is no alternative alignment possible as this is widening of existing road.

#### 3.1.1 Impact of the Project and Study Techniques

**a. Study report on impact of project on the environment in general and on the soil, vegetation, water regime, biodiversity etc. of the landscape and air over the WCP area in specific-** No separate EIA is expected as the project activity of reconstruction of bridge is not listed in the schedule of EIA notification 2006. Hence not applicable.

**b. Quantum of pollutants that may be produced by the project and effect on soil, water, air, vegetation and animals.** – No such hazardous works are included in the project activities. No separate EIA is expected as above. Hence not applicable.

**c. Degradation anticipated on account of the project implementation in quantified terms on appropriate models to be explained. Qualitative changes in wildlife habitat pattern in the WCP area due to project implementation should also be detailed in the plan.** – No degradation of the area is expected in the project. Additionally, the WCP operations will help to enrich the area.

**d. Nature of threats to the flora and fauna on account of the project implementation and increased human presence.** – Being in linear project with the practical width of 35m, tree cutting is minimum or can be considered negligible and human presence will be only at construction time for the limited period of 15 to 20 days in a particular area, there are no threats to the nature of permanent loss.

**e. Probable increase in the vehicular traffic and its impact.** - Only at construction time for the limited period of 15 to 20 days in a particular area, there are no threats to the nature of permanent loss.

**f. Noise pollution, water, air and underground pollutions etc. and its probable impact on flora and fauna.** - Only at construction time for the limited period of 15 to 20 days in a particular area, there are no threats to the nature of permanent loss.

**g. Impact due to extensive clearing or modification of vegetation.** -This impact will be kept minimum by limiting the width to cut minimum no. of trees. Also, the area will be rejuvenated by planting dwarf medicinal plants.

**h. Impact on displacement / movement of fauna - territorial, aquatic or aerial (such as creation of barriers etc.)** - No permanent displacement / movement of territorial fauna and aquatic fauna is expected. For avifauna mitigation as well as conservation measures are prescribed.

**i. Any other direct or indirect impacts on the flora and fauna of WCP area.** – Not noticed during the studies.

**j. Study techniques adopted and observations of the experts in the field giving details of visits, areas visited, observations, records referred to, sampling method adopted and justification in extrapolation.** – Water samples were analysed spatially and temporally in the body of water. The random sampling method for terrestrial flora and fauna for the area was used.

**h. Delineation of the Study Area-** The overall area covered by the assessment includes the following constituent areas:

The footprint of the project hereafter referred to as the 'Project Alignment';

The area extending 500 m outward from the Project Alignment (estimated to contain the potential receptors of any project-related ecological impacts), hereafter referred to as the 'Area of Influence' or 'AOI'; and



The 'Project Alignment', the 'AOI' and the associated facilities are hereafter collectively referred to as the 'Study Area'.

There are 04 trees of different species and trees involved in implementation of the project. The Girth wise break up is as under:

**TABLE 0-1- LIST OF TREES REQUIRED TO BE FELLED FOR THE PROPOSED CONSTRUCTION OF SHRI KRISHNA NAGAR BRIDGE**

Sr. No.	Common Name	Scientific Name	Height (M)	Girth (CM)
1	Bamboo	<i>pseudosasa japonica</i>	3	15
2	Singapore graveyard	<i>Plumeria obtusa</i>	4	31
3	Pipal	<i>Ficus religiosa</i>	5	42
4	False Ashok	<i>polyalthia longifolia</i>	7	34

**TABLE 0-2- TREE GIRTH IN CM.**

Tree Girth in Cm.									
0-30	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136 and above	Total
0	0	1	0	0	2	1	0	0	4

### 3.1.2 Soil

Two types of soils have been observed across the districts viz., medium to deep black and reddish coloured soil. Soil cover in the city region is predominantly sandy due to its proximity to the sea. In the suburbs, the soil cover is largely alluvial and loamy.

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TABLE 0-3 - AVIFAUNA OBSERVED AROUND THE SITE

Sr. No.	Common Name	Scientific name	IUCN Status	WPA Schedule
1	Black Hooded Oriole	<i>Oriolus xanthornus</i>	LC	IV
2	Long-tailed Shrike	<i>Lanius schach</i>	LC	II
3	Indian cormorant	<i>Phalacrocorax fuscicollis</i>	LC	IV
4	Indian Black Robin	<i>Saxicoloides fulicatus</i>	LC	IV
5	Pied Bush chat	<i>Saxicola caprata</i>	LC	IV
6	Plain Prinia	<i>Prinia inornata</i>	LC	IV
7	Purple sunbird	<i>Cinnyris asiaticus</i>	LC	IV
8	White-eared bulbul	<i>Pycnonotus leucogenys</i>	LC	IV
9	Rock pigeon	<i>Columba livia</i>	LC	IV
10	Red vented bulbul	<i>Pycnonotus cafer</i>	LC	IV
11	Common Iora	<i>Aegithina tiphia</i>	LC	IV
12	Common tailor-bird	<i>Orthotomus sutorius</i>	LC	IV
13	Laughing dove	<i>Stigmatopelia senegalensis</i>	LC	IV
14	Wire-tailed Swallow	<i>Hirundo smithii</i>	LC	IV
15	Asian Pied Starling	<i>Gracupica contra</i>	LC	IV
16	Common Myna	<i>Acridotheres tristis</i>	LC	IV
37	Black naped Monarch	<i>Hypothymis azurea</i>	LC	IV
38	Black rumped Flameback	<i>Dinopium benghalense</i>	LC	IV
39	Indian Pond heron	<i>Ardeola grayii</i>	LC	IV
40	Red wattled lapwing	<i>Vanellus indicus</i>	LC	IV

### 3.1.3 Site specific flora

Bamboo, Indian Gooseberry, Lantana, False Ashoka, Pipal, Singapore graveyard, Acacia sp. are some of the plant species noted during survey.



### 3.1.5 Mitigation measures:

Mitigation approaches that best ensure the protection of plants and animals and their specialized habitats likely to be impacted by the project require the implementation of following choices exclusively or in combination.

- Restriction of construction activities to defined areas which are ecologically less sensitive.
- Scheduling of operations to take account of animal breeding seasons.
- Removal of rare/endangered plants from the site and transplant them temporarily or permanently.
- Management of site activities (e.g., use of machinery, transport, waste/overburden removal) to maintain acceptable soil, water and vegetation quality.
- Restoration/duplication of vegetation and other habitat features.
- Maintenance of viable population of animal species.
- Creation/restoration of habitats to compensate for damage caused.

### 3.1.6 Conservation measures:

- Conserve blocks of contiguous forest where appropriate.
- Protect all old growth forest habitat and adequate forested buffers
- Increase old growth forest habitats where feasible.
- Establish and maintain landscape-scale protected habitat and movement corridors;
- Incorporate Forest conservation actions into land use and land planning efforts by local, state, and central agencies.
- To minimize fragmentation of large, contiguous forest blocks.
- Identify areas that will become future old growth forests.
- Restore degraded habitats through appropriate techniques
- Minor technical Jobs: Skill and finance can be provided to interested village youth for taking up minor technical jobs like cycle repair, fabrication, electrical wiring, repair and sale of electrical equipment, painting, mason work, carpentry etc.
- Awareness promotion: There is hardly any conservation awareness among local people who poach wild animals for different purposes and destroy their habitat. Unless proper awareness drive is initiated, any wildlife conservation plan may not be successful in long run. Hence, there should be awareness creation among villagers particularly among youth and students. This can be achieved through film/video shows, different

competitions, street plays, staging of dramas, visits to sanctuaries, publication and distribution of concerned literature etc.

### 3.1.7 Protection measures:

- Special measures for protection of wild animals will be taken.
- Develop the forests into better habitats more suited to needs of wild animals.
- To so empower the fringe forest human dwellers as to lessen their dependence on forests.
- To minimize man-animal conflict.
- To instill love of wilderness by educational and advertising approach.
- To develop water regime of the region.
- Control fire incidents and minimize grazing.
- Take measures for wildlife conservation and promote self-employment by eco-tourism
- Develop lakes and ponds for water animals if applicable.
- Special management measures for habitat of endangered animals.



## Chapter 4

### Proposed Management Strategies

This chapter deals with the interventions by the Project Authorities within the impact area of the Bridge.

#### 4.1 Proposed Management Program for Avifauna Conservation and Mitigation

Construction activities often pose significant threats to avifauna and their habitats due to habitat destruction, increased noise levels, and altered landscapes. To mitigate these impacts and promote avifauna conservation, a comprehensive management program is essential. This proposed program outlines strategies to protect and support avifauna during construction projects.

##### **Pre-Construction Assessment**

- Avifauna Survey Thorough avifauna surveys were carried out in order to identify species present in the study region. This data will help to direct mitigating activities.
- Habitat Assessment: The quality of bird habitats, including nesting locations, roosting spaces, and foraging grounds, was assessed.

##### **Habitat Protection and Enhancement**

- Habitat Set-Aside: Areas for avifauna habitat protection were designated, preferably avoiding construction within critical habitats.
- Habitat Restoration: Habitat restoration and enhancement initiatives were implemented to compensate for habitat loss. This included planting native vegetation and creating artificial nesting sites.

##### **Noise and Light Pollution Mitigation**

- 4.1. Noise Barriers: Noise barriers were installed around sensitive avian habitats to minimize disturbance.
- Construction Scheduling: Noisy activities were scheduled during periods of reduced avian activity (e.g., outside breeding seasons).
- Low-Impact Lighting: Low-intensity and downward-directed lighting was used to reduce light pollution during night construction.

**Nesting Season Measures**

- Nesting Surveys: Additional nesting surveys were conducted during breeding seasons to identify active nests. Construction was avoided within specified buffer zones around active nests.
- Temporary Construction Halts: When active nests were discovered, construction was temporarily halted or work schedules were adjusted until the young birds fledged.
- Employee Training: Construction workers were trained about the importance of avifauna conservation and the specifics of the management program.
- Public Awareness: Public awareness campaigns were conducted to educate the community about the avian species in the area and the importance of their conservation.

**Monitoring and Reporting**

- Avian Monitoring: Ongoing monitoring of avifauna populations and their responses to construction activities was implemented.
- Incident Reporting: A system for reporting any avian injuries or fatalities during construction was established.

**Adaptive Management**

- Regular Review: Mitigation measures were periodically reviewed to assess their effectiveness and adjusted based on monitoring results.
- Flexibility: The management program remained flexible in adapting strategies to unexpected avian behaviour or changes in project scope.

**Compliance and Enforcement**

- Regulatory Compliance: Ensured that all measures complied with local, state, and federal wildlife regulations.

**Post-Construction Assessment**

- Post-Construction Monitoring: Post-construction monitoring of avifauna continued for 10 years to assess long-term impacts and the success of habitat restoration efforts.

**Reporting and Documentation**

- Annual Reports: Annual reports will be prepared and submitted, summarizing avifauna conservation efforts, monitoring results, and any incidents.



### **Collaboration and Stakeholder Engagement**

- Stakeholder Involvement: Engaged with local conservation organizations, government agencies, and community members to garner support and collaboration for avifauna conservation efforts.
- Research Partnerships: Collaborated with research institutions to conduct studies on avifauna responses to construction and mitigation measures.
- By implementing this comprehensive management program, the construction project minimized its impact on avifauna populations and contributed to the conservation of these valuable species. Regular monitoring and adaptive management ensured that conservation efforts remained effective, and avifauna continued to thrive in and around the construction area.

#### **4.2 Wildlife Conservation and Awareness Program**

Awareness cum training programme shall be regularly to deal with wildlife conservation issues in the project area.

- a. General wildlife awareness programme will be conducted in all schools and nearby villages in the project site.
- b. Training to staff and villagers to deal with local wildlife issues related to poaching and man animal conflicts with Elephant, Blue bull, snakes and birds etc.

#### **4.3 Artificial Nest or Man-made Nest**

It is important to have habit management for birds. Man-made nests should be installed on near water bodies and villages that provide suitable conditions for the existence and reproduction of birds and at the same time. Many species of birds find their homes in artificial nests mostly Common Kestrels, Black kite, Owls, parakeets, sparrows etc. By accepting the offered artificial nesting opportunities, these birds make it possible for ornithologists to study their lives and behaviour. Apart from this to cope up with the habitat loss due to clearance of vegetation in the project site, artificial nest should be put up on big trees for other birds for nesting. Artificial nest can also be put up in the houses in the villages around the project site. Awareness and training programme will be organised for birds and installation of nest in their houses for conservation of avifauna as mitigation measures. These artificial nests should be put up in and

around the project impact site. The Schedule-I species of birds like vulture *Gyps bengalensis*, *Gyps indicus*, and Peacock (*Pavo cristatus*) are not found in the project area. 123

**Intervention:**

1. Installation of artificial nest in and around project sites.
2. Bird Watching workshop and awareness programme.
3. Yearly Waterbird census in Mumbai Suburban district.
4. Scientific study of avifauna in the project area.

**4.4 Research and monitoring**

There is no concrete information on the movement pattern of animals across the Bridge proposed in this region. In order to overcome this deficiency, information on movement and mortality of animals can be undertaken by reputed agency/NGO working in the field of Wildlife & Environment. The detailed study of invertebrates, amphibians, reptiles, birds and mammals should be made for carrying out research to elicit information on habit and habitat of different species. This information and data collected will be helpful in future for wildlife conservation and the findings and the results will be utilized for implementation in next 10-year mitigation plan after completion of current 10-year plan.

**Intervention:**

- I. Local level scientific study of population and habitat used by Mammals, Birds, Reptiles, Amphibians and invertebrate fauna.
- II. Scientific study to for the genetic effect on long term basis to know changes on both side of forest area.
- III. Installation of Camera Trap on both side of the bridge and around water bodies constructed to record the presence and movement of animals across the underpass in consultation with Forest Department.
- IV. Further survey for avifauna shall be conducted for knowing the present status of the birds.
- V. Research shall be done on birds or any other specific animals regularly involving research scholar to know the impact of construction in the area.
- VI. Spite specific survey for flora and fauna in general will be conducted regularly and the checklist will be updated and submitted to the forest department.



VII. Research can be undertaken on any other issues related to wildlife suggested by DFOs of the concerned forest division.

VIII. Research for conservation and monitoring of Schedule I species should be taken on priority basis.

A safety officer will be at the construction site during the construction phase, at all times. The safety officer will make sure a first aid kit is always available and that the skilled workers are aware of the safety rules. A safety campaign at the bridge alignments should be conducted with local population. NGOs working in the field of wildlife conservation will be engaged in research and wildlife awareness programme.

## Chapter 5

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### Financial Analysis

#### Financial Projection for conservation plan

The annual work programme and annual outlay for component which is to be implemented is given under the heading budget to be implemented by project authorities. The component identified to be implemented under Cost Estimates for implementation of Ecological measures & Project Level monitoring.

TABLE 0.4 COST ESTIMATES FOR IMPLEMENTATION OF ECOLOGICAL MEASURES

Sr. No.	Conservation Activities	Amount (in Rs. Lakhs)
1	Human-Wildlife conflict management using camera traps and AI based mitigation system	30.00
2	Wildlife rescue vehicle and Wildlife rescue equipment.	25.00
3	Patrolling vehicle for protection of Wildlife habitat in Sanjay Gandhi National Park.	25.00
Total cost		80.00



# DISCLOSURE OF CONSULTANT

## Introduction

The consultants are engaged and the brief description of the key personnel is furnished below.  
Tandon Urban Solution Pvt. Ltd

## Brief about Tandon Urban Solution Pvt. Ltd

Tandon Urban Solution Pvt. Ltd an ISO 9001: 2015 Certified Company & leading Planning, Environmental Engineering, Design, finance & Management consulting & Consultancy Company. Company Established in 1998, Headquartered at Mumbai

### Services of Tandon Urban Solution Pvt. Ltd

#### 1. Water Resources, Flood Modelling, Control and Mitigation Measures

- Water and Wastewater Management
- Water resource
- DEM Analysis, Catchment Analysis, Urban Sprawl Analysis
- Sewerage, Sewage Treatment and Recycle for Reuse
- Flood and Storm Water Management, Modelling and Disposal
- Rainwater Harvesting
- Solid Waste and Landfill Design and greenhouse gases trapping and disposal
- Air quality monitoring and assessment of fugitive emissions
- Wetland design, development and management
- Coastal Streams and Rivers Rejuvenation and Carrying Capacity Restoration
- Storm Water Holding Ponds and release mechanisms in the marine environment
- Design and development of all-weather roads and Drainage Systems
- Urban Rivers and Estuaries Rejuvenation

#### 2. Port utilities

- Development of Jetties, Passenger Terminals and allied services
- Techno-Economic Feasibility Studies
- Prototype Data Collection for Physical Modelling Studies for Ports
- Noise Mapping of Mumbai
- Financial Advisory Services
- Transaction Advisory Services

#### 3. Urban, Rural & Regional Planning

- Vision Plan
- Master Plan
- Regional Plan
- Land Use Plan
- Development Plan
- Site & Area Planning
- City Development Plan
- Urban & Rural Renewal Schemes

- GIS Modelling
  - Infrastructure Planning
  - DC Regulations
  - Institutional Framework and Capacity Building
  - Feasibility Studies
- 4. Environment Clearances and Management Plan**
- Preparation of Forest Diversion Proposal and clearances
  - Preparation of CRZ clearance proposal
  - Preparation of Environment Impact Assessment (EIA) Report and Environment Management Plan
  - Obtaining Consent to Establish and Consent to Operate form PCB
- 5. Housing & Design**
- Project Conceptualization
  - Architectural Design
  - Site Planning & Layout
  - Working Drawings
  - Services Design
  - Electrical System Design
  - Environmental Impact Assessment
  - Detailed Cost Estimation
  - Detailed Project Report
  - Tender Preparation & Bid Process Management
  - Transaction Advisory Services
  - Project Management Consultancy (PMC) / Construction Supervision
- 6. Transportation**
- 7. Real Estate: Public Housing**
- 8. PPP & Transaction Advisory: Public Finance**
- 9. GIS, Geospatial & Building Information Modelling (BIM): Social & Rehabilitation**

**The team members are as follows:**

<b>Name of the Expert</b>	<b>Role</b>
Mr Milind M. Panditrao	Team leader
Mrs. S. S. Bhende	Team member
Mr. Sandeep Zade	Utility Expert
Mr. Amit Mhatre	GIS Expert
Mr. Jitendra Patil	Team member (Environment Legal Expert)



Name of the Expert	Role
Mr. Pralay Mohite	Team member (Ecology and biodiversity)
Miss. Tanya Sawardekar	Team member (Ecology and biodiversity)



Authorized Signatory :  
Name of the Firm : Tandon Urban Solutions Pvt. Ltd. (TUSPL)  
Address : 701, Harbhajan Building, Kalina,  
Santacruz (E), Mumbai – 400 098  
Tele-Fax : +91 22 2665 5335  
E-mail : [tandonandassociates@gmail.com](mailto:tandonandassociates@gmail.com)

(Sachin Sone)  
Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place:

**Undertaking**

For the Compliance of Condition No. XI of Regional Office (WCZ) Nagpur MoEF & CC

letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake that Speed regulating signage with wildlife protection will be erected at suitable places in consultation with park management.



(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai





महाराष्ट्र शासन  
वनविभाग

दूरध्वनी 022- 2542 1373 /  
क्र. 022- 25434349

ईमेल- dycfthane@mahaforest.gov.in  
dcfthane@gmail.com

उप वनसंरक्षक, ठाणे वनविभाग यांचे कार्यालय

मॅरेथॉन सर्कल, लाल बहादूर शास्त्री मार्ग, नौपाडा, ठाणे-400602

पत्र जा.क्र. कक्ष-१/२०/जमीन/ ४०८७ /२०२१-२२ दिनांक २८ फेब्रुवारी, २०२२  
प्रति,

मुख्य अभियंता, (ब्रिजेस),  
बृहन्मुंबई महानगरपालिका.  
इंजिनिअरिंग हब बिल्डिंग,  
शुन्य मजला, डॉ. इ. मोजेस रोड,  
वरळी, मुंबई-१८.

विषय:- श्रीकृष्णनगर दहिसर बोरीवली पूर्व येथील दहिसर नदीवरील नादुरुस्त पूलाची  
पूनर्बांधणी करणेकरिता सनियंत्रण समितीची मंजूरी मिळणेबाबत.

- संदर्भ : १) पर्यावरण, वन आणि जलवायु परिवर्तन मंत्रालयाकडील अधिसूचना क्र.  
का.आ.३६४५(अ), दिनांक ०५.१२.२०१६ व क्र. का.आ.४००४(इ), दिनांक  
०५.११.२०२०  
२) आपलेकडील पत्र क्रमांक Chief Engg/ 10570 /Bridges दि.  
२७.१२.२०२१  
३) संजय गांधी राष्ट्रीय उद्यान इको सेन्सीटीव्ह झोन सनियंत्रण समितीची दिनांक  
१०.०२.२०२२ रोजीची बैठक.

श्रीकृष्णनगर दहिसर बोरीवली पूर्व येथील दहिसर नदीवरील नादुरुस्त पूलाची पूनर्बांधणी  
करणेकरिता संजय गांधी राष्ट्रीय उद्यान इको सेन्सीटीव्ह झोन सनियंत्रण समितीची परवानगी  
मिळणेकरिता आपणाव्दारे संदर्भ क्र. २ अन्वये प्रस्ताव सादर करण्यात आला आहे.

आपल्याकडील उपरोक्त प्रस्तावाचे अनुषंगाने मा. अतिरिक्त महानगरपालिका आयुक्त  
(प्रकल्प), बृहन्मुंबई महानगरपालिका यांच्या अध्यक्षतेखालील संजय गांधी राष्ट्रीय उद्यान इको  
सेन्सीटीव्ह झोन सनियंत्रण समितीच्या दिनांक १०.०२.२०२२ रोजीच्या बैठकीमध्ये सविस्तर चर्चा  
झाली आहे.

केंद्र शासनाकडील दिनांक १४ सप्टेंबर, २००६ रोजीच्या अधिसूचनेनुसार 'संजय गांधी राष्ट्रीय  
उद्यान पर्यावरण संवेदनशील क्षेत्रात दिनांक ०५.१२.२०१६ पूर्वी झालेली कामे, सनियंत्रण समितीचे

कार्यक्षेत्र येत नाहित. त्यामुळे अशा प्रकल्पांबाबत काही समस्या उद्भवल्यास इतर कायद्यान्वये संबंधित प्राधिकृत विभागांमार्फत कार्यवाही करण्यात यावी, असे दिनांक १५.०२.२०२१ रोजीच्या बैठकीत ठरले आहे.

सदर पूलाचे बांधकामाकरिता संजय गांधी राष्ट्रीय उद्यान विभागाचे काही वनक्षेत्र बाधित होत असल्याची बाब संजय गांधी राष्ट्रीय उद्यान विभागाने समितीचे निदर्शनास आणून दिली आहे त्यामुळे सदर पूलाचे बांधकामाकरिता बाधित होणा-या वनक्षेत्राकरिता वन (संवर्धन) अधिनियम, १९८० अंतर्गत वेगळ्याने केंद्र शासनाची पूर्व मान्यता घेणे आपणास बंधनकारक आहे.

वनक्षेत्रा व्यतिरिक्त संजय गांधी राष्ट्रीय उद्यान इको सेन्सीटीव्ह झोनमध्ये येत असलेल्या प्रस्तावीत पूलाचे बांधकाम दिनांक ०५.१२.२०१६ रोजीच्या अधिसूचनेतील परिच्छेद क्र. ४ मधील प्रपत्रातील Regulated Activities या श्रेणीमधील उपक्रम असल्याने सदर कामास समितीद्वारे सशर्त मंजुरी देण्यात येत आहे. तथापि, सदर काम करताना केंद्र शासनाकडील दिनांक १४ सप्टेंबर, २००६ रोजीच्या अधिसूचनेतील तरतुदींचा भंग होणार नाही, याची दक्षता घेऊन आपलेमार्फत पुढील संस्करण करण्यात यावे.



सदस्य सचिव,  
संजय गांधी राष्ट्रीय उद्यान इको सेन्सीटीव्ह झोन  
सनियंत्रण समिती  
तथा  
उप वनसंरक्षक  
ठाणे वन विभाग, ठाणे

- प्रतिलिपी : अतिरिक्त महानगरपालिका आयुक्त (प्रकल्प), बृहन्मुंबई महानगरपालिका, छत्रपती शिवाजी टर्मिनस समोर, मुंबई - ४००००१ यांच्याकडे माहितीस्तव सादर.
- प्रतिलिपी : वनसंरक्षक व संचालक, संजय गांधी राष्ट्रीय उद्यान, बोरिवली यांच्याकडे माहितीस्तव सादर.
- प्रतिलिपी : महानगरपालिका उप आयुक्त (परि-७), बृहन्मुंबई महानगरपालिका, तिसरा मजला, आर/दक्षिण विभाग कार्यालय इमारत, महात्मा गांधी क्रॉस रोड नं. २, स.व.प. जलतरण तलावाच्या बाजूला, कांदिवली (पश्चिम), मुंबई - ४०००६७ यांच्याकडे माहितीसाठी सस्नेह अग्रेषित.



**Undertaking**

For the Compliance of Condition No. XIV of Regional Office (WCZ) Nagpur MoEF & CC

letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake that the layout plan of the proposal will not be changed without prior approval of Central Government.

  
(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

**Undertaking**

For the Compliance of Condition No. XV of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) hereby undertake that no labour  
camp will be established on the forest land.



(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. XVI of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

Sufficient firewood, preferably the alternate fuel, will be provided to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel.



**(Sachin Sone)**

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

**Undertaking**

For the Compliance of Condition No. XVII of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the boundary of the diverted forest land will be suitably demarcated on ground at the project cost, as per the directions of the concerned Divisional Forest Officer.



(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. XVIII of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that no additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work.



**(Sachin Sone)**

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

**Undertaking**

For the Compliance of Condition No. XIX of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the period of diversion under this approval will be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less.



**(Sachin Sone)**

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. XX of Regional Office (WCZ) Nagpur MoEF & CC

letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the forest land will not be used for any purpose other than that specified in the project proposal.

  
(Sachin Sone)

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

**Undertaking**

For the Compliance of Condition No. XXI of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the forest land proposed to be diverted will under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India.



(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. XXII of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the Violation of  
any of the given conditions will amount to violation of Forest (Conservation) Act, 1980 and  
action would be taken as per the MoEF & CC Guideline F. No. 11-42/2017- FC dt 29/01/2018.



**(Sachin Sone)**

**Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai

**Undertaking**

For the Compliance of Condition No. XXIII of Regional Office (WCZ) Nagpur MoEF & CC  
letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that any other  
condition that the Ministry of Environment, Forests & Climate Change may stipulate from time  
to time in the interest of conservation, protection and development of forests & wildlife.



(Sachin Sone)

Asst Engineer, Bridges  
Brihanmumbai Municipal Corporation

Date:

Place: Mumbai



**Undertaking**

For the Compliance of Condition No. XXIV of Regional Office (WCZ) Nagpur MoEF & CC

letter FC-I/MH-332/2023-NGP /12002 Dated- 08/08/2023

I/We Brihanmumbai Municipal Corporation (BMC) undertake that the compliance report will be uploaded on e-portal (<https://parivesh.nic.in>)



(Sachin Sone)

Asst Engineer, Bridges

**Brihanmumbai Municipal Corporation**

Date:

Place: Mumbai