

Summary of Tree Girth wise under West division (New Delhi district)

S No	Scientific Name	Local Name	Girth (0-30)cm	Girth (31-60)cm	Girth (61-90)cm	Girth (91-120)cm	Girth (120-150)cm	Girth (>150)cm	Total
1	Leucaena leucocephala	Shu-babool	34	26	12	3	0	0	75
2	Azadirachta indica	Neem	0	1	0	0	0	2	3
3	Vachellia nilotica	Kikar	1	3	3	3	2	1	13
4	Pithecellobium dulce	J.Jalebi	0	1	0	0	0	1	2
5	Ziziphus mauritiana	Ber	0	2	0	0	0	0	2
6	Morus nigra	Shahtoot	0	1	0	0	0	0	1
7	Eucalypteae	Eucalyptus	0	0	1	1	0	0	2
8	Syzygium cumini	Jamun	1					1	1
9	Ficus religiosa	Pipal						0	1
10	Dalbergia sissoo	Shisam	1						1
Total			37	34	16	7	2	7	103

अधिसारी अभियन्ता/विभाग
Executive Engineer/Office
कलार रोड, सिविल ब्रिज, नई दिल्ली
N. Ry. Shivalik Bridge, New Delhi

Harneet
Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

List of Tree for felling/cutting for Raising of Guide Bund of Yamuna River near Bridge No-31 In C/W

3rd-4th Line between Tilak Bridge-Anand Vihar Railway Station In Forest West Division (Near A-1)

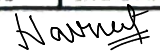
S.N.	Location	No of Tree	Type of Tree	Girth in cm	F-E	T-I	Scientific Name
1	Tilak Bridge(A-1) DN Stream Side	1	shu-babool	18	F-E		Leucaena leucocephala
2		2	shu-babool	20	F-E		
3		3	shu-babool	27	F-E		
4		4	shu-babool	30	F-E		
5		5	shu-babool	30		T-I	
6		6	shu-babool	33		T-I	
7		7	shu-babool	22	F-E		
8		8	Ber	31	F-E		Ziziphus mauritiana
9		9	Ber	46		T-I	
10		10	shu-babool	16	F-E		Leucaena leucocephala
11		11	shu-babool	38	F-E		
12		12	shu-babool	19	F-E		
13		13	shu-babool	71	F-E		
14		14	shu-babool	32	F-E		
15		15	shu-babool	30	F-E		
16		16	shu-babool	29	F-E		
17		17	Neem	1.93		T-I	Azadirachta indica
18		18	Eucalyptus	118	F-E		Eucalypteae
19		19	Eucalyptus	173	F-E		
20		20	Eucalyptus	90	F-E		
21		21	Sahtoot	60	F-E		Morus Alba
22		22	Neem	184	F-E		Azadirachta indica
23		23	shu-babool	22	F-E		Leucaena leucocephala
24		24	shu-babool	45	F-E		
25		25	shu-babool	20	F-E		
26		26	Kabuli Kikar	143	F-E		Prosopis juliflora
27		27	Su- Babool	20	F-E		Leucaena leucocephala
28		28	shu-babool	18	F-E		Leucaena leucocephala
29		29	shu-babool	32	F-E		
30		30	shu-babool	60	F-E		
31		31	shu-babool	28	F-E		
32		32	shu-babool	60	F-E		
33		33	shu-babool	30	F-E		
34		34	shu-babool	40	F-E		
35		35	shu-babool	28	F-E		
36		36	shu-babool	26	F-E		
37		37	shu-babool	37	F-E		
38		38	Eucalyptus	190	F-E		Eucalypteae
39		39	Kabuli Kikar	93	F-E		Prosopis juliflora
40		40	shu-babool	80	F-E		
41		41	shu-babool	61	F-E		


Harney
 Dy. Conservator of Forests
 West Forests Division
 Department of Forests & Wildlife
 Govt. of Nct of Delhi
 Mandir Lane, New Delhi-07

[Signature]
 Executive Engineer/Const.
 अधिष्ठात्री अभियन्ता/ निरीक्षण
 N Rly Shivaji Bridge, New Delhi
 उत्तर रेलवे, शिवाजी ब्रिज, नई दिल्ली

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42	shu-babool	30	F-E		Leucaena leucocephala
43	shu-babool	19	F-E		
44	shu-babool	105	F-E		
45	shu-babool	56	F-E		
46	shu-babool	103	F-E		
47	shu-babool	80	F-E		Prosopis juliflora
48	Kabuli Kikar	95	F-E		
49	shu-babool	43	F-E		Leucaena leucocephala
50	shu-babool	90	F-E		
51	J. Jalebi	50	F-E		Pithecellobium dulce
52	Jamun	25	F-E		Syzygium cumini
53	J. Jalebi	264		T-I	Pithecellobium dulce
54	shu-babool	22	F-E		Leucaena leucocephala
55	shu-babool	41	F-E		
56	Kabuli Kikar	162	F-E		Prosopis juliflora
57	shu-babool	16	F-E		Leucaena leucocephala
58	Kabuli Kikar	82	F-E		Prosopis juliflora
59	Kabuli Kikar	158	F-E		
60	Kabuli Kikar	17	F-E		
61	shu-babool	18	F-E		Leucaena leucocephala
62	shu-babool	17	F-E		
63	shu-babool	30	F-E		
64	shu-babool	18	F-E		
65	shu-babool	25	F-E		
66	shu-babool	55	F-E		
67	shu-babool	40	F-E		
68	shu-babool	58		T-I	
69	shu-babool	70	F-E		
70	shu-babool	43	F-E		
71	shu-babool	50	F-E		
72	shu-babool	42	F-E		
73	shu-babool	66	F-E		
74	shu-babool	56	F-E		
75	shu-babool	32	F-E		
76	shu-babool	80	F-E		
77	shu-babool	37	F-E		
78	shu-babool	60	F-E		
79	shu-babool	16	F-E		
80	shu-babool	30	F-E		
81	Neem	40	F-E		Azadirachta indica
82	shu-babool	105	F-E		Leucaena leucocephala
83	shu-babool	25	F-E		
84	shu-babool	74	F-E		
85	shu-babool	62	F-E		


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 West Forests Division
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 Mandir Lane, New Delhi-07


 Executive Engineer Const
 अधिष्ठाता अभियन्ता/ निरीक्षण
 N Rly Shivaji Bridge, New Delhi
 उत्तर रेलवे, शिवाजी ब्रिज, नई दिल्ली

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86	shu-babool	43	F-E		
87	Kabuli Kikar	67	F-E		
88	Kabuli Kikar	1 mtr.	F-E		
89	Kabuli Kikar	148	F-E		
90	Kabuli Kikar	53	F-E		
91	Kabuli Kikar	70	F-E		
92	Peepal	330		T-I	Prosopis juliflora
93	shu-babool	54	F-E		
94	shu-babool	23	F-E		
95	shu-babool	24	F-E		
96	shu-babool	20	F-E		
97	shu-babool	50	F-E		
98	shu-babool	65	F-E		
99	shu-babool	50	F-E		
100	shu-babool	22	F-E		
101	shu-babool	20	F-E		
102	shu-babool	65	F-E		
102a	shu-babool	72	F-E		
					Ficus religiosa
					Leucaena leucocephala

Harneet.

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

Executive Engineer Const.
आविष्कारक अभियंता (निर्माण)
N. Raj Shwaj Endoo, New Delhi
एन. राज श्वज एन्डू, नई दिल्ली



**Northern Railway
(Construction Organization)**

**Office of the
Deputy Chief Engineer/Const.
Shivaji Bridge, New Delhi**

No. No. 133-W/325/C/CSB/Line no. 3/4

Date: 17.05.2021


**Dy. Conservator Forest
Central Division, Delhi.**

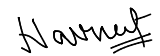
**Dy. Conservator Forest
West Division, Delhi.**

**Sub:- Justification for locating the project in forest land of Guide Bund of
Railway Bridge across Yamuna**

The existing guide bund of the Railway bridge over Yamuna has to be raised and strengthened as per the recommendations of Central Water and Power Research Station, Pune (CWPRS) as the High Flood Level (HFL) has increased from 205.13 to 207.13 due to increase in design discharge. The trees on the Guide Bund and adjacent area (required for maintaining the slope of the bund) are required to be cut/felled/transplanted for raising the existing bund.

The guide bund (site) is, thus, fixed and cannot be shifted/relocated. Thus, there is no possibility of examining any other alternate site for the project.


**Deputy Chief Engineer/Const.
Shivaji Bridge, New Delhi**

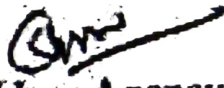

**Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-110007**

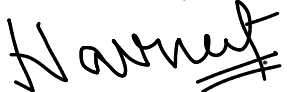
Full Title of The Project:- Raising of Guide Bund of existing Railway Bridge on River Yamuna.

Proposal No:-FP/DL/RAIL/145310/2021

UNDER TAKING FOR SUBMITTING OF FRA CERTIFICATE

It is certified that for obtaining FRA Certificate from concern Deputy Commissioner already applied and prior to 1st approval the same will be submit.


Signature of User Agency
Sr. Section Engineer (W)/Cons.
Northern Railway, Ghaziabad
व. सहाय अभियन्ता (सहाय) निवास
जवाहर रोड, गजियाबाद

Seal


Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

NOTE

Sub:- Raising of guide-bund on Br no.31 (12x45.70) U/S, D/C and both backs.

Ref:- Technical Report of Central Water & Power Research Station (CW&PRS), Pune.

It has come to notice that report of Central Water & Power Research Station (CW&PRS), Pune consider design discharge of river Yamuna as 12750cumec. This impacts design HFL for new Yamuna bridge as well as protection work. HFL to be considered will be higher as compared to previous one.

It is also noted that a new bridge is proposed about 30m upstream of existing Bridge No. 31 (12x45.70m span). A drawing showing the land plan along with guide bunds as well as existing bridge is enclosed. It is felt that existing guide bunds (upstream, downstream both banks) will be impacted by new proposed bridge as part of 3rd/4th line Anand Vihar-Tilak Bridge doubling project. It is therefore proposed that design modification/ enlargement/ raising/ widening as considered necessary based on updated CW & PRS report of 2007 and other technical consideration may be carried out by construction dept. already executing the doubling project.

CAO/C may please be advised to take up said work on priority please.

[Signature]
Dy.CE/BD 16/03/21

CBE

~~CPD/BW~~ CAO/C will be advised accordingly *[Signature]*

~~PCE~~

Above work is essential. GM may kindly approve for advising CAO/C for undertaking the above work.

~~GM~~

[Signature]
16.3.21

महानगरपालिका के
मुख्य अधिकारी
द्वारा 16/3/21

Most urgent. Please plan for completion within time bound manner and before the onset of monsoons. *[Signature]*

CAO/C

19/03/21

DyCE/CSA/1

17/03/2021

17/3/21

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

Brief in c/w Amrut Bio Diversity Park, Yamuna river plains/banks: NORTHERN RAILWAY

- Yamuna Bridge (Bridge no-31) exists on GAL in NDLS-GZB section.
- The length of the bridge is 550 m with 12 spans each of 45.72 m (150 feet).
- Railway bund level : MSL 206 m (Length: LHS 1000m approx. and RHS 500 m approx.)
- Railway bund breach level : MSL 205.62m (Length: 7m approx)
- IFCD bund level : MSL 208 m
- On the direction of MoEF in 2007, DDA got Hydraulic Model studies conducted through Central Water & Power Research Station (CW&PRS), Pune for construction of CWG Village
- CW&PRS, Pune in 2007 recommended the raising and strengthening of this railway bund
- Railways is constructing a new Yamuna Bridge 30 m on up-stream of the existing Yamuna bridge, considering the HFL data of 207.13 m as recommended by CW&PRS . Considering 1 m free board the required level of bund should be 208.13 m.
- The raising of bund level will also require widening of the existing bund, which can be possible after cutting of 1500-2000 trees approx.
- SCOPE OF WORK REQUIRED: raising of Guidebunds, which exists on U/S, D/S and both banks approximately of 1500 m length. Raising will be in the range of about 2.25 m.
- The work can be charged/taken up as part of the work of new Yamuna bridge/ Doubling, being operated by CAO/C.

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 Mandir Lane, New Delhi-07

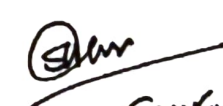
Area calculation sheet for diversion of forest land.

Area	Length(Avg)	Width (Avg)	Area(sqm)	Jurisdiction	Remarks
Guide Bund 1	263.70	7.00	1845.90	DCF Central	Non forest Area in all location are NIL
Guide Bund 2	130.00	22.00	2860.00	DCF West	
Guide Bund 3	720.00	22.00	15840.00	DCF Central	
Guide Bund 4	155.00	22.00	3410.00	DCF Central	
Total			23955.90		
Say			2.396(Hect.)		

Area calculation sheet for CA land.

	Length(Avg)	Width (Avg)	Area(sqm)	Remarks
CA Land(Dhulisiras)	$(3.93.00+416.00)/2$	59.25	23966.63	2.396(hect.)


 Dy. Conservator of Forests
 West Forests Division
 Department of Forests & Wildlife
 Govt. of Nct of Delhi
 Mandir Lane, New Delhi-07


 Sr. Section Engineer (W)/Cons.
 Northern Railway, Ghaziabad
 ब. खण्ड अभियन्ता (कार्य) निर्माण
 उत्तर रेलवे, गाजियाबाद


**GOVT OF NCT OF DELHI
DEPARTMENT OF FOREST & WILDLIFE,
OFFICE OF THE DY. CONSERVATOR OF FOREST (WEST)
WEST FOREST DIVISION, MANDIR LANE, NEW DELHI-110060**

Full Title of Project: Diversion of .286 Ha forest land for raising of Guide Bunds near Railway Bridge on River Yamuna in C/w 3rd-4th line between Anand Vihar-Tilak Bridge Stations.

Ref: Proposal NoFP/DL/RAIL/145310/2021.

Date of Proposal: 3/8/2021

This is to certify that .286 Ha. land proposed for diversion near Railway Line Bhairon Marg is free from all sorts of encumbrances and encroachments. Northern Railway Department of Delhi has not carried out any work in violation of terms of Forest Conservation Act, 1980 till date with regard to the said project.


(NAVNEET K. SRIVASTVA)
Dy. Conservator of Forests
West Forest Division

Place: New Delhi

Date: 03/09/2021

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

GOVT OF NCT OF DELHI
DEPARTMENT OF FOREST & WILDLIFE,
OFFICE OF THE DY. CONSERVATOR OF FOREST (WEST)
WEST FOREST DIVISION, MANDIR LANE, NEW DELHI-110060

Full Title of Project: Diversion of .286 Ha forest land for raising of Guide Bunds near Railway Bridge on River Yamuna in C/w 3rd-4th line between Anand Vihar-Tilak Bridge Stations.

Ref: Proposal NoFP/DL/RAIL/145310/2021.

Date of Proposal: 3/8/2021

CHECKLIST SERIAL NUMBER -02

SHOWING DETAILS OF FOREST AREA INVOLVED IN THE PROPOSAL

S.NO	District	Division	Range/Tehsil/Village	Khasra No./Compartment NO	Forest area involved in the proposal (Ha.)	Legal Status of Forest area
1.	New Delhi	West Division	New Delhi	NA	.286	Deemed Forest



(NAVNEET K. SRIVASTVA)
Dy. Conservator of Forests
West Forest Division

Place: New Delhi

Date: 03/09/2021

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

**GOVT OF NCT OF DELHI
DEPARTMENT OF FOREST & WILDLIFE,
OFFICE OF THE DY. CONSERVATOR OF FOREST (WEST)
WEST FOREST DIVISION, MANDIR LANE, NEW DELHI-110060**

Full Title of Project: Diversion of .286 Ha forest land for raising of Guide Bunds near Railway Bridge on River Yamuna in C/w 3rd-4th line between Anand Vihar-Tilak Bridge Stations.

Ref: Proposal NoFP/DL/RAIL/145310/2021.

Date of Proposal: 3/8/2021

CHECKLIST SERIAL NUMBER 04

This is to certify that the said project is not part of any National Park/Sanctuary. The Wildlife Warden does not have any objection to the execution of this project.



**(NAVNEET K. SRIVASTVA)
Dy. Conservator of Forests
West Forest Division**

Place: New Delhi

Date: 03/09/2021

**Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07**

GOVT OF NCT OF DELHI
DEPARTMENT OF FOREST & WILDLIFE,
OFFICE OF THE DY. CONSERVATOR OF FOREST (WEST)
WEST FOREST DIVISION, MANDIR LANE, NEW DELHI-110060

Full Title of Project: Diversion of .286 Ha forest land for raising of Guide Bunds near Railway Bridge on River Yamuna in C/w 3rd-4th line between Anand Vihar-Tilak Bridge Stations.

Ref: Proposal NoFP/DL/RAIL/145310/2021.

Date of Proposal: 3/8/2021

CHECKLIST SERIAL NUMBER -03

SHOWING DETAILS OF NON-FOREST AREA INVOLVED IN THE PROPOSAL

S.NO	District	Division	Range/Tehsil/Village	Khasra No./Compartment NO	Non-Forest area involved in the proposal (Ha.)
1.	New Delhi	West Division	NA	NA	Nil

Navneet

(NAVNEET K. SRIVASTVA)

**Dy. Conservator of Forests
West Forest Division**

Place: New Delhi
Date: 03/09/2021

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07

Office seal

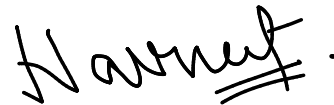
GOVT. OF NCT OF DELHI
DEPARTMENT OF FOREST AND WILD LIFE
OFFICE OF THE DEPUTY CONSERVATOR OF FOREST
WEST FOREST DIVISION, MANDIR LANE ,
DELHI-110060

Full Title of Project: raising of Guide Bunds near Railway Bridge on River Yamuna in C/w 3rd-4th line between Anand Vihar-Tilak Bridge Stations.

Ref: Proposal NoFP/DL/RAIL/145310/2021.

Date of-Proposal: 3/8/2021

This is to certify that the muck disposal scheme submitted by the User Agency i.e. Northern Railway for the above project has been found to be satisfactory. A copy of the same is also attached with this document.



(Navneet K. Shrivastava)

DEPUTY CONSERVATOR OF FOREST
WEST FOREST DIVISION

Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-110060

मक डिस्पोजल प्रमाण पत्र

उत्तर रेलवे द्वारा दक्षिण वन प्रभाग के अन्तर्गत प्रस्तावित तिलक-पुल-आनन्द विहार स्टेशन तक 3 व 4 लाईन के निर्माण हेतु मक डिस्पोजल योजना के संबंध में प्रमाण पत्र

प्रमाणित किया जाता है कि उत्तर रेलवे द्वारा दक्षिण वन प्रभाग/उत्तर वन प्रभाग के अन्तर्गत प्रस्तावित तिलक पुल-आनन्द विहार स्टेशन तक 3 व 4 लाईन के निर्माण से प्रभावित होने वाली 2.39 हे० आरक्षित वन भूमि में किसी प्रकार का मिट्टी खुदाई का कार्य नहीं किया जायेगा। अतः प्रस्तावित परियोजना हेतु मक डिस्पोजल योजना अनुमन्य नहीं है।

Disposal/Management Plan

While preparing FCA case, if there is any activity in the project which involves digging of land, muck disposal/management plan has to be prepared

Should include

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|--|----|
| 1. Calculation of muck to be generated self factor has to be applied: | NA |
| 2. Quantity of muck to utilized in the project activities: | NA |
| 3. Balance quantity of muck which requires disposal/management plan?: | NA |
| 4. Carriage of muck from the muck generation site in the dumping site.: | NA |
| 5. Ownership of land and the consent of land owner, in case muck disposal on non forest land: | NA |
| 6. Photograph & Carrying capacity of proposed dumping site (muck disposal site): | NA |
| 7. Development of dumping site construction of retaining walls and other structure as per requirement of the site. The objective is to completely stop rolling down of the muck: | NA |
| 8. Rehabilitation of dumping site like levelling planning of grass, shrubs and tree species: | NA |

After construction work of approach road will be done

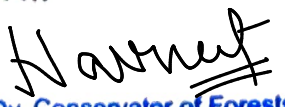
Cost to be incurred on the above activities has to be given component wise. Details of dumping site including length, width and height of structures to be exacted must be mentioned.

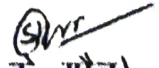
Undertaking by the user agency has to be given to the effect that:

1. Muck management plan will be implemented by the user agency and in case of non implementation of the plan, they will be liable to penalty/action at their cost.
2. The proposed dumping site is located away from river/stream/ nala.

प्रभागीय निदेशक

दक्षिण वन प्रभाग, नई दिल्ली
उत्तर वन प्रभाग, नई दिल्ली


Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07


(एस. के. गौड़)
वरिष्ठ अनुभाग अभियन्ता/निर्माण/कार्य
शिवाजी ब्रिज-1, नई दिल्ली



**Northern Railway
(Construction Organization)**

**Office of the
Deputy Chief Engineer/Const.
Shivaji Bridge, New Delhi**

No. No. 133-W/325/C/CSB/Line no. 3/4


Date: 17.05.2021

**Dy. Conservator Forest
Central Division, Delhi.**

**Dy. Conservator Forest
West Division, Delhi.**

**Sub:-Cost-Benefit Analysis for the Project raising and strengthening of Guide
Bund of Railway Bridge across Yamuna**

The raising and strengthening of Guide Bund of Railway Bridge across Yamuna is part of the work of 3rd-4th line between Anand Vihar & Tilak Bridge stations of Northern Railway. The approximate cost of the work is Rs. 6.5 Cr. The safety related work is required for preventing breaches and consequent danger to the safety of existing bridge and the proposed new bridge at 30 m upstream. The combined cost of existing and new proposed bridge (along with protection works) is approx. Rs. 250 cr. Thus, the benefit of the work (Rs. 250 Cr. Saving) is much more than the cost of the work (Rs. 6.5 cr). Also, there is social importance of the work as it would prevent inundation of adjoining habited areas of Yamuna river, thereby, preventing loss of life and property.


**Deputy Chief Engineer/Const.
Shivaji Bridge, New Delhi**


**Dy. Conservator of Forests
West Forests Division
Department of Forests & Wildlife
Govt. of Nct of Delhi
Mandir Lane, New Delhi-07**