



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways, Govt. of India)



परियोजना क्रियान्वयन इकाई - एच.आई.जी.-5/ई-3, अरेरा कॉलोनी, गणेश मंदिर के पास, पुराना हबीबगंज नाका, भोपाल (म.प्र.) - 462016
Project Implementation Unit - HIG-5/E-3, Arera Colony, Near Ganesh Mandir, Old Habibganj Naka, Bhopal (M.P.) - 462016

दूरभाष/Phone : 0755-2465604 & 05, ई-मेल /E-mail: bhopal@nhai.org, वेबसाइट/Website: www.nhai.gov.in

भाराराप्रा/पक्रिइ/भोपाल/रारा-346/फॉरेस्ट/2023/22398

दिनांक 02/03/2023

प्रति

प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष भू-प्रबंध)
सतपुड़ा भवन, मध्यप्रदेश
भोपाल

विषय:- विदिशा जिले में NH-346 (Old SH-19) के अंतर्गत Vidisha-Mehulwa-Talbehat Section में फोरलेन निर्माण हेतु 2.33 हेक्टेयर वनभूमि भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, सागर को उपयोग पर देने बाबत। (FP/MP/Road/149399/2021)

संदर्भ:- 1. आपके कार्यालय का पत्र क्रं.678 दिनांक 13.02.2023
2. भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, भोपाल का पत्र क्रं./96-MPB 045/2022-BHO दिनांक 10.02.2023

महोदय,

उपरोक्त विषयान्तर्गत आपके कार्यालय के संदर्भित पत्र दिनांक 13.02.2023 का अवलोकन करने का कष्ट करें जो कि परियोजना निदेशक, भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, पक्रिइ सागर को संबोधित है। जिसके माध्यम से आपके द्वारा भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, भोपाल द्वारा प्रकरण में सैद्धांतिक स्वीकृति जारी करने के पूर्व 09 बिन्दुओं पर चाही गयी जानकारी हेतु लेख किया है।

2. उक्त संबंध में आपको यह अवगत कराना है, कि उक्त परियोजना का कार्य वर्तमान में भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, पक्रिइ भोपाल के कार्यालय के अधीन प्रगतिरत है। अतः चाही गयी जानकारी के संबंध में इस कार्यालय का बिन्दुवार अनुपालन निम्नानुसार है:-

S. No.	Observation from Regional Office MoEF, Bhopal	Compliance
1	Detailed muck disposal scheme is shall be submitted	The Muck will be utilized on Road Construction in Forest area itself by Contractor of NHAI. Certificate enclosed as Annex-1.
2	Justification for location of the project in forest land (counter signed by DFO) shall be submitted /uploaded.	Justification already submitted. Again enclosed as Annex-2.
3	No objection certificates of concerned department (Railway, WRD etc) shall be submitted.	1. Approvals for Irrigation culverts received from State Irrigation department dated 16.11.2022 (Enclosed as Annex-3). 2. As the alignment of Forest area is not going with RAILWAYS, so no NOC is required for this.
4	Component wise breakup of land required and component wise area calculation with the layout plan shall be submitted.	Component wise area calculations and layout plan enclosed as Annex-4 for your reference.

मुख्यालय : जी-5, एवं 6, सेक्टर-10, द्वारका नई दिल्ली-110075, दूरभाष : 91-11-25074100/25074200, वेबसाइट : www.nhai.gov.in

Corporate Office : G-5, & 6, Sector-10, Dwarka New Delhi-110075, Phone: 91-11-25074100/25074200, Website: www.nhai.gov.in

5	Alternative alignment of road is submitted but KML file of alternative needs to be uploaded on web portal.	The option to upload KML file for alternative alignment is not available since the project uploaded on Parivesh Portal on 17 th November 2021.
6	Full KML file of layout plan of forest area and non-forest area shall be uploaded on web portal	PDF file of Layout Plan is attached since the option to upload KML file of Layout plan of Forest area and non-forest area is not available on web portal.
7	Administrative approval/sanction letter of the project needs to be provided.	Administrative approval and financial sanction letter of the project is enclosed as Annex-5.
8	Details of existing ROW proposed ROW and land width (ROW) availability for road side plantation needs to be submitted and accordingly plantation scheme for roadside plantation needs to be submitted.	- Detailed Typical Cross Section drawings showing the proposed plantation scheme in Median and ROW edges enclosed in Plan & Profile drawings enclosed as Annex-6. - Kindly refer Clause no. 2(n) of Schedule-C contract agreement enclosed for Plantation scheme to be adopted by Concessionaire is enclosed as Annex-7.
9	It is not clear from the proposal that what is the status of widening before and after the proposed alignment shall be clarified.	Detailed Plan & Profile drawings enclosed as Annex-8.

अतः आपकी जानकारी एवं आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्नक :- उपरोक्तानुसार।


 (आरुण के. गुप्ता)
 परियोजना निदेशक
 भाराराप्रा, पक्रिड़, भोपाल

प्रतिलिपि :-

- मुख्य वन संरक्षक, (क्षेत्रीय) भोपाल वृत्त, भोपाल (म०प्र०) की ओर सादर सूचनार्थ प्रेषित।
- वन मण्डलाधिकारी, सामान्य वन मण्डल, विदिशा (म०प्र०) की ओर सादर सूचनार्थ प्रेषित।

कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष भू-प्रबंध), सतपुड़ा भवन, मध्यप्रदेश, भोपाल
क्रमांक/एफ-5/1189/2022/10-11/ 678 भोपाल, दिनांक 13/02/2023
प्रति,

परियोजना निदेशक,
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, परियोजना क्रियान्वयन इकाई,
सागर, मध्यप्रदेश।

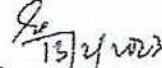
विषय:- विदिशा जिले में NH-346 (Old SH-19) के अन्तर्गत Vidisha-Mahulwa-Talbehat Section में फोरलेन निर्माण हेतु 2.33 हेक्टेयर वनभूमि भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, सागर को उपयोग पर देने बाबत। (FP/MP/Road/149399/2021)
संदर्भ:- भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय, भोपाल का पत्र क्रमांक/6-MPB 045/2022-BHO/ दिनांक 10.02.2023

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उपरोक्त संदर्भित पत्र का अवलोकन करें, त्वरित संदर्भ हेतु छायाप्रति संलग्न है। भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भोपाल ने प्रकरण में सैद्धांतिक स्वीकृति जारी करने के पूर्व 09 बिन्दुओं पर जानकारी चाही गई है।

अतः प्रकरण में भारत सरकार के चाहे अनुसार आपसे संबंधित बिन्दुओं की जानकारी तैयार कर वन मण्डलाधिकारी के माध्यम से शीघ्र इस कार्यालय को भिजवायें, ताकि प्रकरण में सैद्धांतिक स्वीकृति प्राप्त करने की कार्यवाही की जा सके।

संलग्न:-उपरोक्तानुसार।

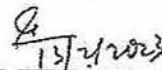

(सुनील अग्रवाल)
प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
मध्य प्रदेश, भोपाल

पृ. क्रमांक/एफ-5/1189/2022/10-11/ 679 भोपाल, दिनांक 13/02/2023
प्रतिलिपि:-

1. मुख्य वन संरक्षक, (क्षेत्रीय) भोपाल वृत्त, भोपाल, मध्यप्रदेश।
2. वन मण्डलाधिकारी, सामान्य वन मण्डल, विदिशा, मध्यप्रदेश।

की ओर छायाप्रति संलग्न कर लेख है कि भारत सरकार के चाहे अनुसार आपसे संबंधित जानकारी तैयार कर एकजाई जानकारी शीघ्र इस कार्यालय को भिजवायें, ताकि प्रकरण में स्वीकृति प्राप्त करने की कार्यवाही की जा सके।

संलग्न:-उपरोक्तानुसार।।


प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
मध्यप्रदेश, भोपाल

6-MPBC45/2022-BHO

12/02/2023



भारत सरकार / GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

एकीकृत क्षेत्रीय कार्यालय, भोपाल / INTEGRATED REGIONAL OFFICE, BHOPAL

Kendriya Paryavaran Bhavan, Link Road No.3, E-5, Ravi Shankar Nagar,

BHOPAL - 462016 (M.P.)

TEL: 0755-2466525 E-mail: rowz.bol-mef@nic.in



संख्यांक: 6-एमपीवी 045/2022-वीएचओ/

दिनांक : 10-02-2023

प्रति,

प्रधान सचिव (वन)

मध्यप्रदेश शासन,

वल्लभ भवन, भोपाल,

(मध्यप्रदेश)।

विषय: विदिशा जिले में NH-346(Old SH-19) के अन्तर्गत Vidisha-Mahulwa-Talbehat Section में फोरलेन निर्माण हेतु 2.33 हेक्टेयर संरक्षित वनभूमि परियोजना निदेशक, भारतीय राष्ट्रीय राजमार्ग प्राधिकरण को उपयोग पर देने बाबत।

संदर्भ: नोडल अधिकारी, म.प्र. का पत्र क्रमांक एफ-5/1189/2022/10-11/3977 दिनांक 24/11/2022.

महोदय,

उपरोक्त विषयक एवं संदर्भित पत्र के संदर्भ में अधोहस्ताक्षरी को यह सूचित करने का निर्देश हुआ है कि प्रस्ताव से संबंधित अन्य वांछित जानकारियाँ/स्पष्टीकरण की आवश्यकता है। अतः निम्नलिखित जानकारियाँ/ दस ताबेज प्रेषित करने का कष्ट करें :-

1. Detailed muck disposal scheme is shall be submitted.
2. Justification for location of the project in forest land (counter signed by DFO) shall be submitted/uploaded.
3. No objection certificates of concerned department (Railway, WRD etc) shall be submitted.
4. Component wise breakup of land required and component wise area calculation with the layout plan shall be submitted.
5. Alternative alignment of road is submitted but KML file of alternative needs to be uploaded on webportal.
6. Full KML file of layout plan of forest area and non forest area shall be uploaded on webportal.
7. Administrative approval/sanction letter of the project needs to be provided.
8. Details of existing ROW proposed ROW and land width (ROW) availability for road side plantation needs to be submitted and accordingly plantation scheme for roadside plantation needs to be submitted.
9. It is not clear from the proposal that what is the status of widening before and after the proposed alignment shall be clarified.

उपरोक्त जानकारी प्राप्त होने के पश्चात ही प्रस्ताव में आगामी कार्यवाही की जायेगी।

भवदीय

(हरे राम कुमार)

तकनीकी अधिकारी (यानिकी)

प्रतिलिपि: प्रधान मुख्य वन संरक्षक (भू-प्रबंध) एवं नोडल अधिकारी, मध्यप्रदेश शासन, सतपुड़ा भवन, भोपाल।

Signed by Hare Ram Kumar

Date: 10-02-2023 11:54:21

Reason: Approved

Full Title of the Project: Four Laning of Vidisha-Mehulwa-Talbehat Section of NH-346 (old SH-19) from Design Chainage Km 0+000 to Km 26+500 (Package 1) near DeoKhajuri Village in the State of Madhya Pradesh.

File No. :

Date of Proposal:

Muck Disposal Certificate

This is to certify that I, Project Director, NHAI PIU Sagar, ensuring for proper Muck disposal during construction of proposed road project and bear all expenses for the muck disposal work.

Sunil Kumar
Project Director
NHAI PIU Sagar
Madhya Pradesh

CIS
[Signature]
परियोजना निदेशक
Project Director
भारत राष्ट्रीय परियोजना इकाई भोपाल
NHAI PIU-Bhopal (M.P.)

Project Title: Four Laning of Vidisha-Mehulwa-Talbehat Section of NH-346 (old SH-19) from Design Chainage Km 0+000 to Km 26+500 (Package 1) near DeoKhajuri Village in the State of Madhya Pradesh.

File No. :

Date of Proposal:

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST LAND

I/we National Highway Authority of India, PIU- Sagar are proposing for 4 laning of Four Laning of Vidisha-Mehulwa-Talbehat Section of NH-346 (old SH-19) from Design Chainage Km 0+000 to Km 26+500 (Package 1) near DeoKhajuri Village in the State of Madhya Pradesh

We are implementing this project with an object to improve the existing road. This will strengthen the existing transportation service, economic development, agricultural facilities and facilitate better connectivity in the region.

The subject project is a Major connectivity of Indore, Hoshangabad, Betul, Bhopal to Jhansi in UP. The Project Corridor linking major district headquarters and important towns within the state and connecting them with national highways of the neighboring states.

SH-19 connects major towns of Jaithpur (Uttar Pradesh)-Bhind- Mehgaon_ Mau_ Seondha-Datia- Pichhor-Mungaoli-Kuwai-Vidisha-Salamtpur-Bareilly-Chhiindwara-Nagpur (Maharashtra) of approximate length of 743 Kms.

The earlier proposed alignment obstructs the State Government College at Km 8+900 near Jafarkhedi village. In order to avoid the State Government College the alignment was shifted to LHS side of Jafarkhedi Village which falls under protected forest, because of Jafarkhedi lake exists on the RHS side. The proposed alignment serves as Vidisha Bypass for future traffic and with a shortest distance and travel time.

Project Director
NHAI, PIU-Sagar
Madhya Pradesh

Date: / /2021

Place: Sagar

CIS
Project Director
परियोजना निदेशक
Project Director

भारत राष्ट्रीय परियोजना इकाई भोपाल
NHAI PIU-Bhopal (M.P.)

कार्यालय कार्यपालन यंत्री
सम्राट अशोक सागर संभाग क्र. 2 विदिशा (म.प्र.)

Email eesasvidishadn2@gmail.com

फोन नं. 07592-250469

पत्र क्रमांक 1/20/टी.एस/जी-513(डी)/2022/ विदिशा

दिनांक 16-11-2022

प्रति,

संचालक,
परियोजना निदेशक,
भारतीय राजमार्ग प्राधिकरण,
परियोजना क्रियान्वयन इकाई, HIG-5/E-3,
अरेरा कोलोनी, गणेश मंदिर के पास,
पुराना हबीबगंज नाका, भोपाल (म.प्र.)

विषय- भारतमाला परियोजना के तहत राष्ट्रीय राजमार्ग क. 346 (विदिशा-मैंहलुआ खण्ड) के 2/4 लेन निर्माण/चौड़ीकरण हेतु नहरों के सत्यापन के संबंध में।

संदर्भ- आपका पत्र क. NHA/PIU/BPL/DPR/NH-346/Vidisha-Mehlua/PKG-1/2022/20986 दि. 13.07.2022

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उपरोक्त विषय एवं संदर्भ में लेख है कि भारतमाला परियोजना के तहत राष्ट्रीय राजमार्ग क. 346 (विदिशा-मैंहलुआ खण्ड) के 2/4 लेन निर्माण/चौड़ीकरण हेतु तहसील विदिशा के अंतर्गत गुजरने वाले राजमार्ग हेतु अनापत्ति प्रमाण पत्र निम्न शर्तों पर प्रदाय किया जाता है :-

1. स्ट्रक्चरों के निर्माण कार्य के दौरान नहर व अन्य शासकीय संपत्ति को क्षति होती है तो क्षति सुधार के लिये भारतीय राजमार्ग प्राधिकरण, परियोजना क्रियान्वयन इकाई, भोपाल पूर्ण रूप से जिम्मेदार होगा व सभी क्षतिपूर्ति दावों के भुगतान हेतु आपके विभाग की जबाबदारी रहेगी।
2. स्ट्रक्चरों के निर्माण कार्य के दौरान सिंचाई कार्य में किसी प्रकार का व्यवधान नहीं होना चाहिये यदि होता है तो संपूर्ण जिम्मेदारी आपके विभाग की होगी।
3. नहर संचालन के दौरान किसी रुकावट की अनुमति नहीं होगी।
4. स्ट्रक्चरों के निर्माण एवं रखरखाव कार्य के दौरान सभी सुरक्षात्मक उपाय आपके विभाग के द्वारा किये जाने होंगे। किसी भी प्रकार की दुर्घटना आदि के लिये यह विभाग उत्तरदायी नहीं रहेगा।
5. स्ट्रक्चरों के निर्माण एवं सुधार के दौरान अनुविभागीय अधिकारी, सम्राट अशोक सागर उपसंभाग क. 5 व 8 विदिशा एवं 2 खोआ मु. सलामतपुर को निरीक्षण कराकर कार्य उनकी जानकारी में कराया जावे।
6. भविष्य में शासकीय हित में विभाग द्वारा लिया गया निर्णय विभाग के पक्ष में अंतिम होगा तथा जिसे मानने के लिये आपका विभाग बाध्य रहेगा।
7. आपके द्वारा निर्मित पक्के कार्य का संपूर्ण रखरखाव आदि कार्य का उत्तरदायित्व एवं इस पर होने वाला संपूर्ण व्यय आपके विभाग का रहेगा।

कार्य प्रारम्भ करने के पूर्व अद्योहस्ताक्षरकर्ता को सूचित करना सुनिश्चित करें।

सहपत्र : शून्य।

(राजीव कुमार जैन)

कार्यपालन यंत्री,

सम्राट अशोक सागर संभाग क्रमांक 2,

विदिशा (म.प्र.)

दिनांक

पृ. क्रमांक /टी.एस/जी-31(ए10)/2022/ विदिशा

प्रतिलिपि:- अनुविभागीय अधिकारी, सम्राट अशोक सागर उपसंभाग क. 5 व 8 विदिशा एवं 2 खोआ मु. सलामतपुर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

cls
Raj

(राजीव कुमार जैन)

कार्यपालन यंत्री,

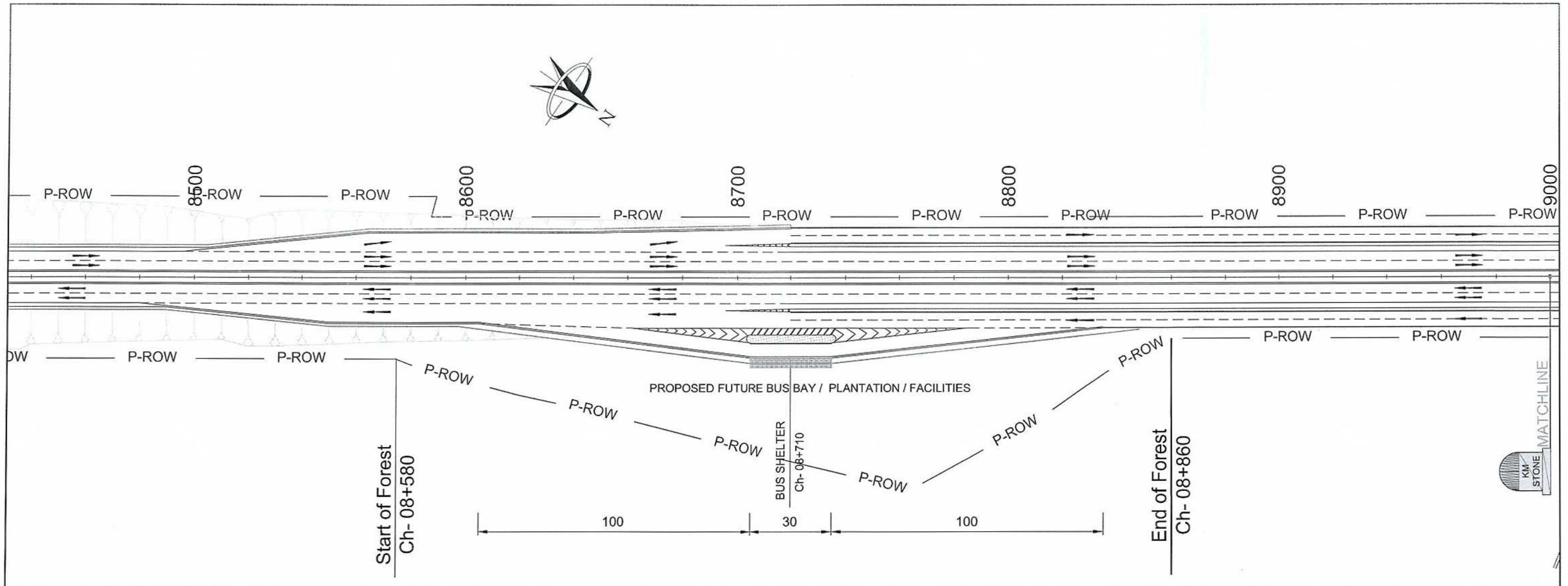
सम्राट अशोक सागर संभाग क्रमांक 2,

विदिशा (म.प्र.)

COMP. NO.	KHASRA NO.	PILLAR NO.	UTM		GEOGRAPHIC CORDINATES		AREA (SQM)	AREA (HACT.)
			EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE		
552	189	A	780735.11	2606840.91	23° 32' 51.431"	77° 44' 59.535"	23268.47	2.33
		B	780815.35	2606803.01	23° 32' 50.15"	77° 45' 2.337"		
		C	780787.58	2606763.83	23° 32' 48.895"	77° 45' 1.332"		
		D	780849.14	2606753.37	23° 32' 48.516"	77° 45' 3.493"		
		E	780855.34	2606757.59	23° 32' 48.649"	77° 45' 3.715"		
		F	780916.28	2606754.51	23° 32' 48.511"	77° 45' 5.86"		
		G	780840.10	2606686.67	23° 32' 46.355"	77° 45' 3.13"		
		H	780928.52	2606650.08	23° 32' 45.112"	77° 45' 6.22"		
		I	780899.18	2606599.87	23° 32' 43.499"	77° 45' 5.153"		
		J	780924.30	2606549.65	23° 32' 41.852"	77° 45' 6.003"		
		K	780982.12	2606571.46	23° 32' 42.524"	77° 45' 8.056"		

CLs
Fes
परियोजना निदेशक
Project Director
आ.रा.रा.पा. वारं.क्रिया इकाई भोपाल
NHAI PIU-Bhopal (M.P.)

				DESIGN CONSULTANT:		SCALE:		CLIENT:		DRAWING TITLE:		DRG. NO.		REV.					
				LEA ASSOCIATES SOUTH ASIA PVT. LTD.,		NTS		 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India		DGPS MAP		73580\LASAI\HIGHWAYS\DPID\DM-01		0					
				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				PROJECT: Consultancy Services for preparation of Detailed Project Report for Development of Economic Corridors, Inter Corridors, Feeder Routes and Coastal Roads to improve efficiency of Freight Movement in India (Lot1/Madhya Pradesh/Package-3)						DATE: FEBRUARY 2023		DRAWN : ASHISH			
R1 MAR-21 DETAILED PROJECT REPORT				INDIA										DESIGNED		CHECKED		APPROVED	
MKD. DATE DESCRIPTION BY														Triptesh Das		Sujoy Sinha		J.K.Das	
REVISION																SHEET SIZE A2			



S.No.	Description	AREA (HACT.)	Remark
1	Total Forest Area to be Acquired	2.33	
2	Land Required for Main Carriageway	1.44	
3	Additional Area for Project Facilities	0.89	Bus Bay/Landscapeing& Tree Plantation

DESIGN CONSULTANT: LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, 11nd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA		SCALE: NTS	CLIENT: NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India	DRAWING TITLE: DGPS MAP	DRG. NO. 73580\LASA\HIGHWAYS\IDPR\DM-01	REV. 0
PROJECT: Consultancy Services for preparation of Detailed Project Report for Development of Economic Corridors, Inter Corridors, Feeder Routes and Coastal Roads to improve efficiency of Freight Movement in India (Lot1/Madhya Pradesh/Package-3)		DATE: FEBRUARY 2023 DESIGNED: Triptesh Das CHECKED: Sujoy Sinha DRAWN: ASHISH APPROVED: J.K.Das		SHEET SIZE A2		

RW/NH-37011/57/2022-BP&SP

Government of India
Ministry of Road Transport & Highways
(BP & SP Cell)
Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated: 19.10.2022

To,

The Chairperson,
National Highways Authority of India,
G-5 & 6, Sector-10, Dwarka,
New Delhi 110075.

[Kind Attention: Sh. K. V. Singh, CGM (T)]

Sub: Administrative Approval and Financial Sanction for Construction of (i) 4-lane highway from Vidisha to Hinotiya from km 0+000 to Km 27+000 (Length = 27 Km) (Vidisha - Mehulwa-Talbehat Pkg-I) Section of NH-346 and (ii) 4-laning of Vidisha to Morikori from Km 39+000 to 59+476 (Length = 20.476 Km) section of NH-146 under Bharatmala Pariyojana in the State of Madhya Pradesh on HAM; recommended by Standing Finance Committee (SFC) under the Chairmanship of Secretary (RT&H) during the meeting held on 19.09.2022 in Transport Bhawan, New Delhi- reg.

Madam/ Sir,

Please refer to the minutes of SFC Meeting held on 19.09.2022 under the Chairmanship of Secretary (RT&H) wherein the instant project proposal was recommended.

2. The approval of Competent Authority is hereby conveyed for implementation of following project proposal (as recommended by SFC in the meeting held on 19.09.2022) to be executed on Hybrid Annuity Mode under Bharatmala Pariyojana subject to the condition that NHAI would strictly comply with conditions/ decisions/ recommendations stipulated in the minutes of SFC meeting held on 19.09.2022:

Name	Length (in Km)	Civil Construction Cost including Utility Shifting and excluding GST (in Rs. crore)	Estimated Project Cost (Excl GST) (in Rs. crore)	Total Capital Cost (in Rs. crore)
Construction of (i) 4-lane highway from Vidisha to Hinotiya from km 0+000 to Km 27+000 (Length = 27 Km) (Vidisha - Mehulwa-Talbehat Pkg-I) Section of NH-346 and (ii) 4-laning of Vidisha to Morikori from Km 39+000 to 59+476 (Length = 20.476 Km) section of NH-146 under Bharatmala Pariyojana in the State of Madhya Pradesh on HAM.	47.476	755.47	787.86	1000.63

Yours sincerely,



(Rohit Kumar Rajpoot)
Assistant Executive Engineer (BP&SP)

CLB
19/10/22
NHAI
Bharatmala Pariyojana
M.P.

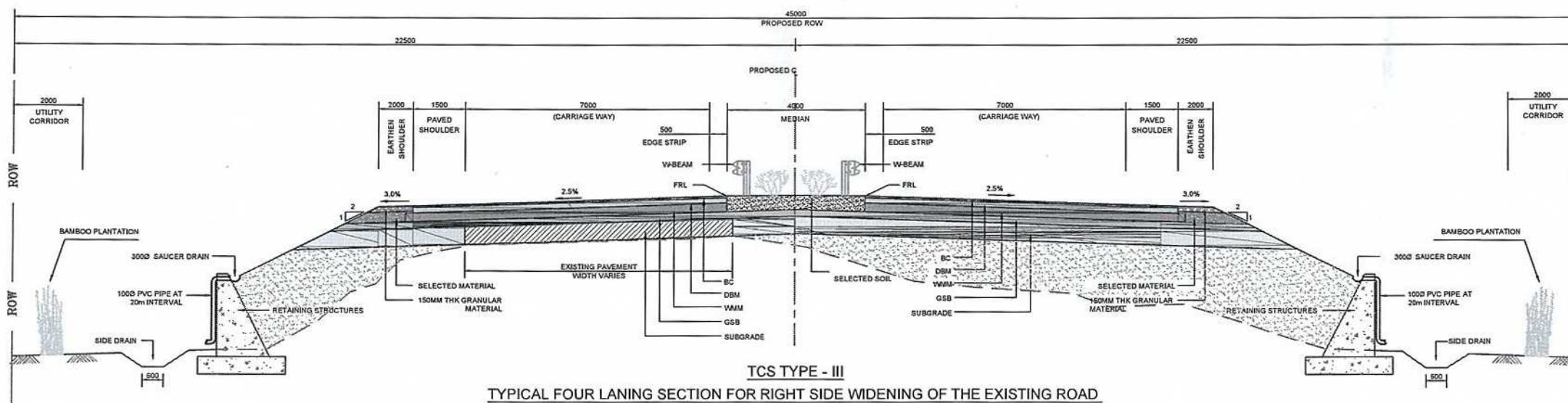
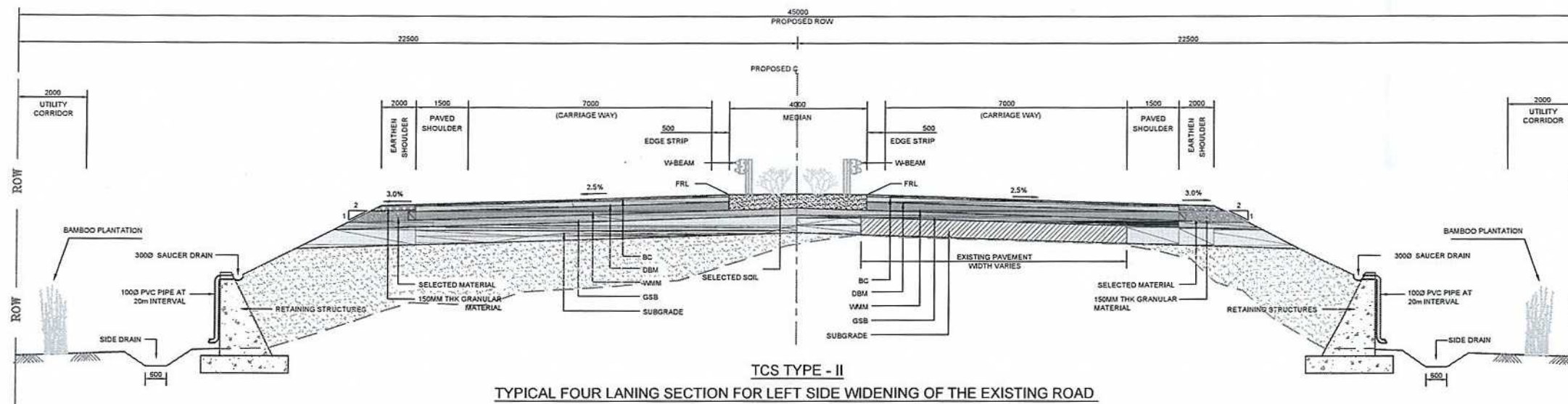
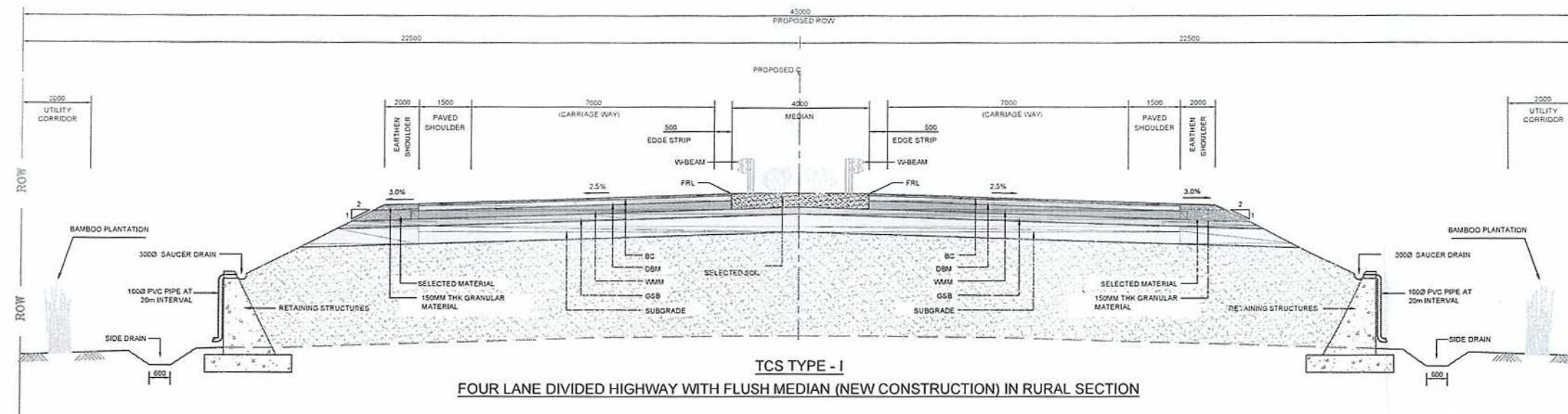
i) Construction of 4-lane Greenfield & Brownfield Highway from km 0+000 to Km 27+000 Vidisha – Mehulwa (Vidisha to Hinotiya Package 1) under Bharatmala Pariyojana in the State of Madhya Pradesh on HAM Mode

Appendix B-VII

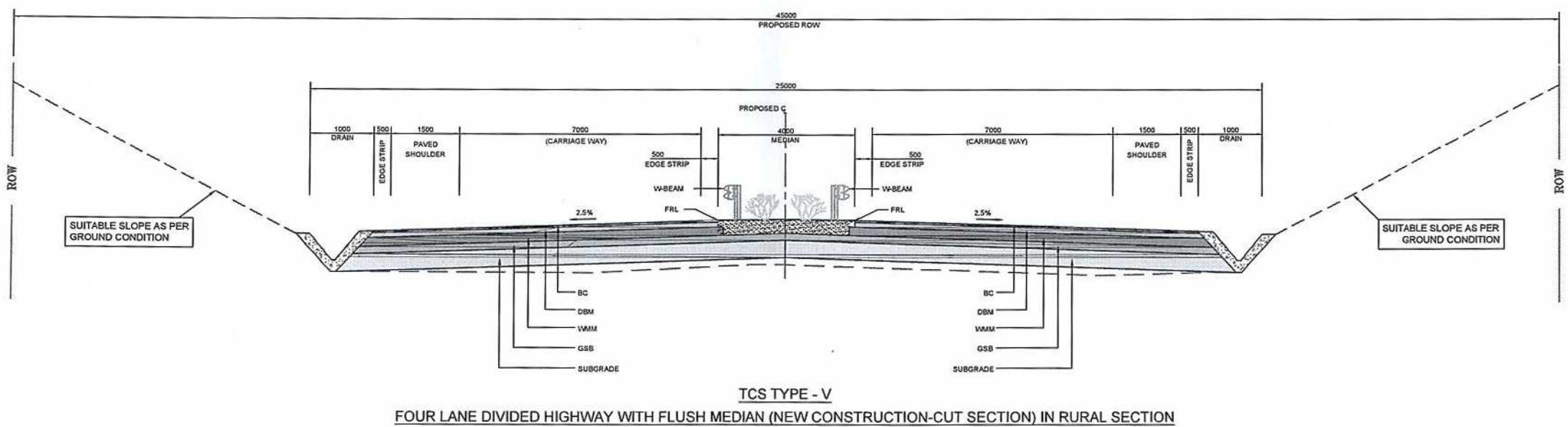
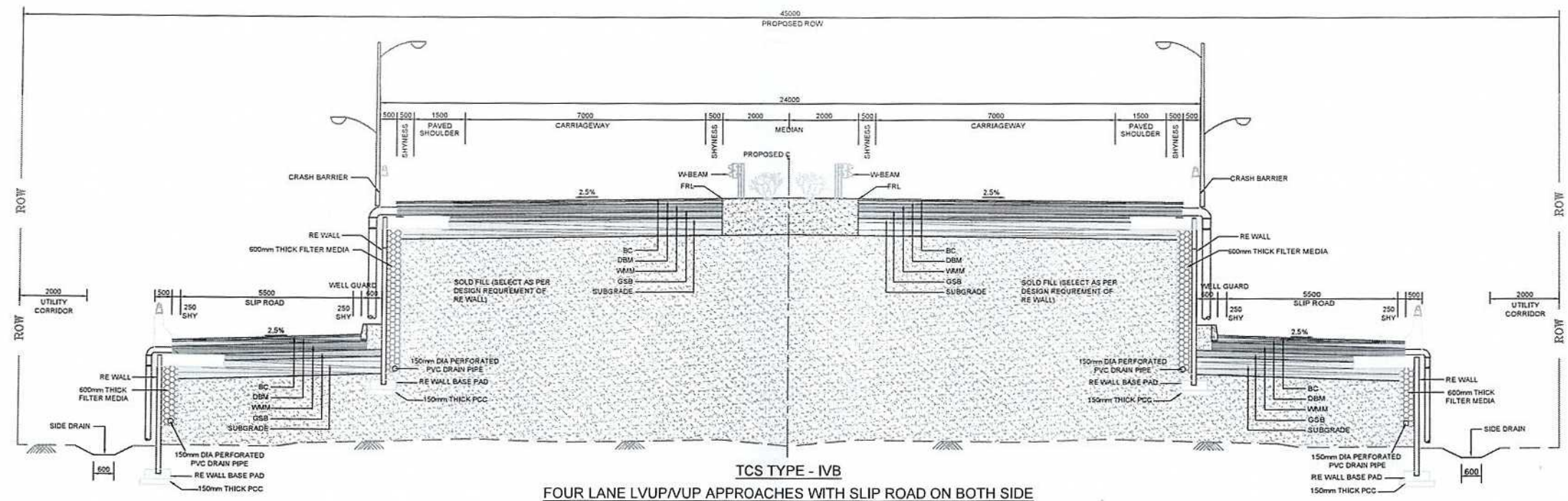
Details of Proposed ROW

Sl. No	Design Chainage Km		Length (m)	PROW (m)		Total ROW	Remarks
	From	To		LHS	RHS		
1	0+000	0+583	583	35	60	95	Grade Separated Structure with Access
2	0+583	0+680	97	50	50	100	
3	0+680	1+160	480	45	45	90	
4	1+160	2+950	1790	22.5	22.5	45	
5	2+950	3+050	100	45	45	90	Major Junction
6	3+050	3+160	110	22.5	22.5	45	
7	3+160	3+230	70	45	45	90	Major Junction
8	3+230	8+000	4770	22.5	22.5	45	
9	8+000	8+800	800	30	30	60	Cut Section
10	8+800	11+720	2920	22.5	22.5	45	
11	11+720	11+800	80	45	45	90	Major Junction
12	11+800	15+110	3310	22.5	22.5	45	
13	15+110	15+190	80	45	45	90	Major Junction
14	15+190	18+560	3370	22.5	22.5	45	
15	18+560	18+800	240	30	30	60	Toll Plaza
16	18+800	27+000	8200	22.5	22.5	45	

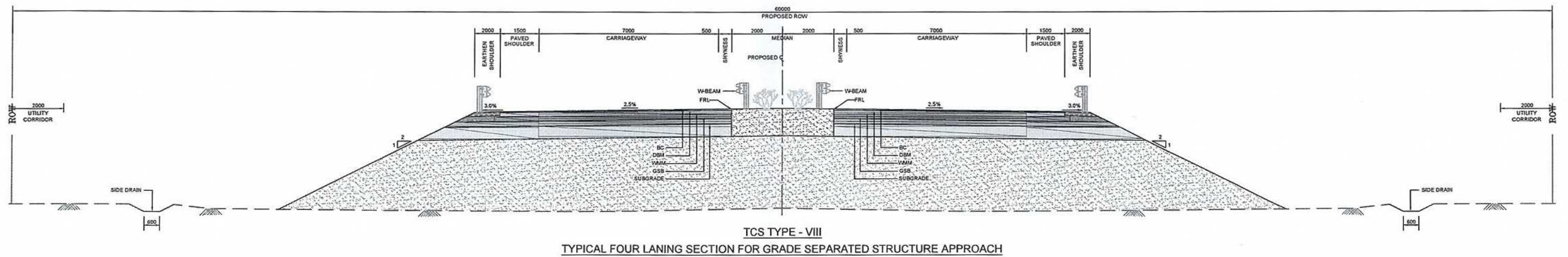
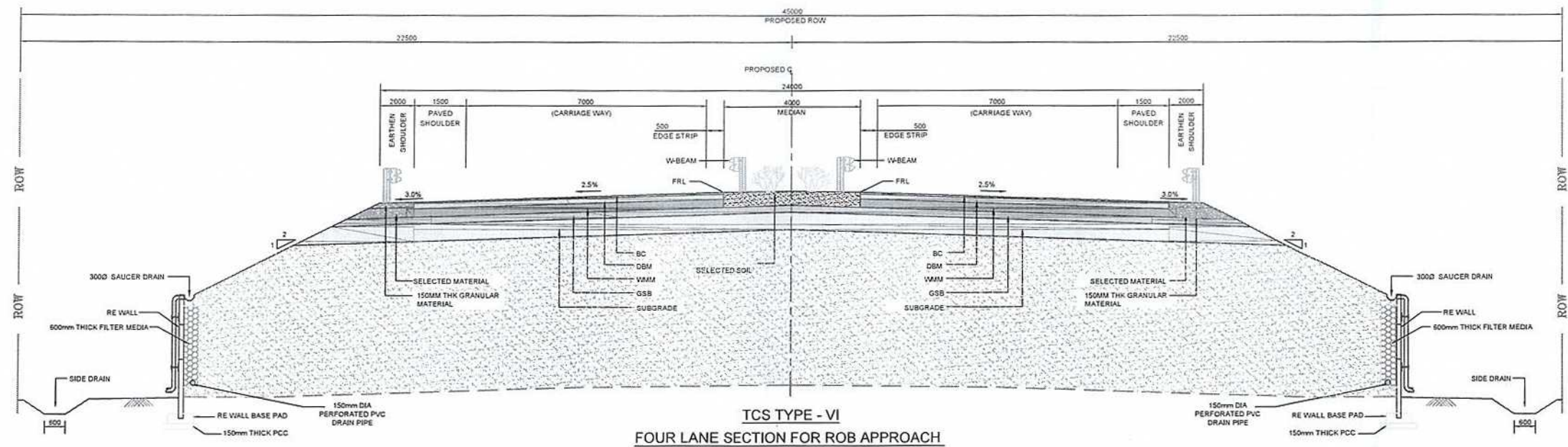
Note: At location of Bus bays, Truck lay-byes, Toll Plaza and Junctions extra land to be provided in addition to above-mentioned ROW.



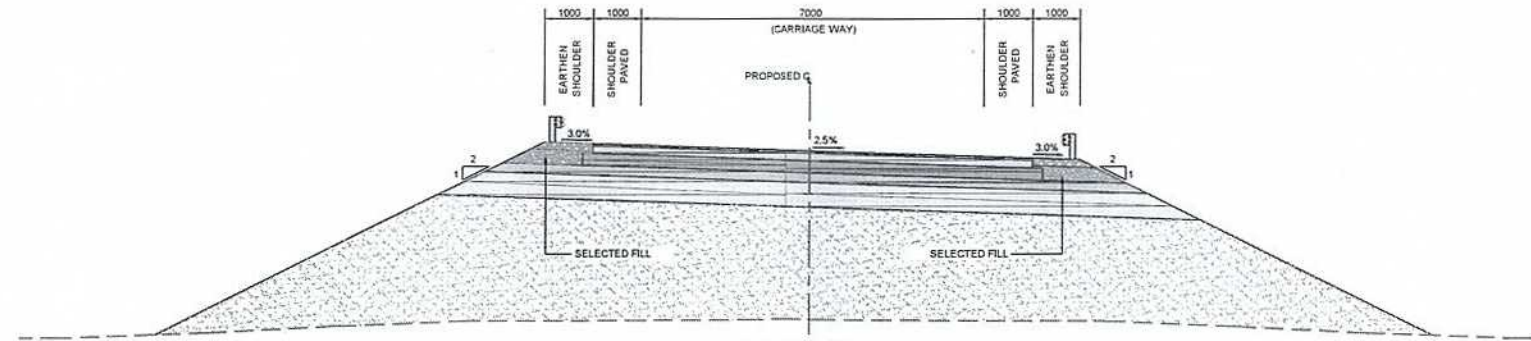
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				B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044											
				INDIA											
				  											
MKD. DATE DESCRIPTION BY												DATE: October 2022		DRAWN : Ravindra Patwal	
REVISION												DESIGNED M Rakesh		CHECKED Sujoy Sinha	
														APPROVED J.K.Das	
														SHEET SIZE A2	



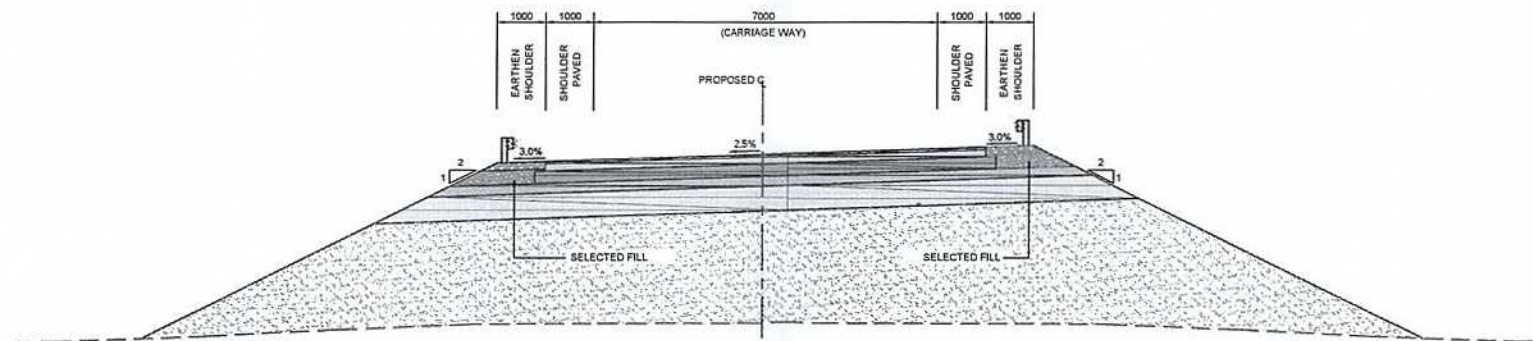
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				B-1, E-27, 11th FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044				PROJECT:				DATE: October 2022		DRAWN : Ravindra Patwal	
				INDIA				"FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"				DESIGNED M Rakesh		CHECKED Sujoy Sinha	
				  										APPROVED J.K.Das	
MNO. DATE DESCRIPTION BY															
REVISION														SHEET SIZE A2	



				DESIGN CONSULTANT:		SCALE:		CLIENT:		DRAWING TITLE:		DRG. NO.		REV.	
				LEA ASSOCIATES SOUTH ASIA PVT. LTD.,		NTS		 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India		TYPICAL CROSS SECTION		73580\LASAI\HIGHWAYS\DP\TCS-03		0	
				B-1, E-27, 1 st FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044											
				INDIA											
															



TCS TYPE - IXA
TYPICAL CROSS SECTION SECTION OF RAMP



TCS TYPE - IXB
TYPICAL CROSS SECTION SECTION OF RAMP

				DESIGN CONSULTANT:	SCALE:	CLIENT:	DRAWING TITLE:	DRG. NO.	REV.	
				LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, IInd FLOOR, MOHAN COOPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044 INDIA	NTS	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India	TYPICAL CROSS SECTION	73580/LASAI/HIGHWAYS/DPR/TCS-04	0	
						PROJECT: "FOUR LANING OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"	DATE: October 2022		DRAWN : Ravindra Patwal	
							DESIGNED	CHECKED	APPROVED	
							M Rakesh	Sujoy Sinha	J.K.Das	

i) Construction of 4-lane Greenfield highway from km 0+000 to Km 27+000 Vidisha – Mehulwa (Vidisha to Hinotiya Package 1) under Bharatmala Pariyojana in the State of Madhya Pradesh on HAM Mode

SCHEDULE - C (PART I)

(See Clause 2.1)

PROJECT FACILITIES

1. Project Facilities

The Concessionaire shall construct the Project Facilities in accordance with the provisions of this Agreement. Such Project Facilities shall include:

- (a) Toll Plazas;
- (b) Roadside Furniture;
- (c) Highway Lighting;
- (d) Pedestrian Facilities;
- (e) Truck lay-byes;
- (f) Bus-bays and bus shelters;
- (g) Cattle crossings;
- (h) Traffic aid posts;
- (i) Medical aid posts;
- (j) Vehicle rescue posts;
- (k) Highway patrol Unit;
- (l) Emergency Medical Services;
- (m) Crane services;
- (n) Operation & Maintenance Centre;
- (o) Landscaping and Tree Plantation;
- (p) Communication system; and

2. Project Facilities for Four-Laning

Project Facilities forming part of Four-Laning and to be completed on or before the Project Completion Date have been described in Annex-I of this Schedule-C.

National Highways Authority of India (NHAI)

परियोजना निदेशक
Project Director
आ.स.रा. परि.क्रिया इकाई-भोपाल
NHAI PIU-Bhopal (M.P.)

Annex - I

(Schedule-C)

Project Facilities for Four-Laning

1. Project Facilities

The Concessionaire shall construct the Project Facilities described in this Annex-I to form part of the Four-Lane Project Highway. The Project Facilities shall include:

- (a) Toll Plazas;
- (b) Roadside Furniture;
- (c) Highway Lighting;
- (d) Pedestrian Facilities;
- (e) Truck lay-byes;
- (f) Bus-bays and bus shelters;
- (g) Cattle crossings;
- (h) Traffic aid posts;
- (i) Medical aid posts;
- (j) Vehicle rescue posts;
- (k) Highway patrol Unit;
- (l) Emergency Medical Services;
- (m) Crane services;
- (n) Operation & Maintenance Centre;
- (o) Landscaping and Tree Plantation;
- (p) Communication system; and

2. Description of Project Facilities

Each of the Project Facilities is briefly described below:

a) Toll Plazas

Except otherwise provided in this Schedule-C. Toll plaza shall be design as per Section 10 of the Manual (IRC: SP: 84:2019), Toll Plazas including all facilities shall be provided at the following locations:

Location of Toll Plaza:

S. No	Design Chainage	Direction	No. of toll lanes (Extra wide ETC + ETC+ Extra wide ETC)
1	18+600	Vidisha-Mehulwa	4+4

b) Road Side Furniture

Road side furniture comprising road signs, road markings, object markers, hazard marker, studs, delineators, attenuators, safety barriers, pedestrian guard rails, boundary stones, kilometer stone etc. shall be provided as per manual.

The roadside furniture shall also include the following minimum provisions:

- I. Crash Barrier: New Jersey crash barriers shall be provided as per TCS. W beam Metal Crash Barrier shall be provided at required locations as shown in TCS drawing and at all other locations as per the Manual. W beam crash barrier shall invariably be provided in median on both sides height minimum 3 M.
- II. Pedestrian Guard Rail (MS Railings) shall be provided as per Manual.
- III. Traffic Signs: Traffic Signs viz. roadside signs, overhead signs and kerb mounted signs shall be provided along the entire Project Highway as per Manual. 3 sets of Traverse bar marking on Main Carriageway with thickness 5mm 5mm & 15mm.
- IV. Pavement markings: The pavement markings shall cover the road markings for the entire Project Highway as per Manual.
- V. LED Traffic Beacons: These shall be provided on the entire project highway near pedestrian crossings, public gathering places (Educational Institutions, Hospitals, Worship places etc.) cross roads at Major and Minor Junctions and wherever required as per Manual.
- VI. Studs: Road Studs shall be provided at Horizontal Curve below 700m, median opening, intersections, Cross roads & Built-up areas (Excluding Toll Plaza location) and wherever required as per Manual, throughout the stretch @ 9m C/C
- VII. Delineators: Delineators for night time visibility shall be provided for the entire project Highway as per Manual throughout the stretch @ 18m C/C.
- VIII. Boundary stones shall be provided at the boundary on both sides of Right of Way as per IRC SP: 84 : 2019.
- IX. Hectometer/Kilometer Stones: Shall be provided for the entire Project Highway.

c) Highway Lighting/Street lighting:

Highway lighting (LED) shall be provided at the following locations with Solar lighting

- i. At Rest area, Truck lay bye, Bus bays, bus shelter, junctions, Interchanges and Grade separators including approaches & underneath of Underpasses/Overpasses, built up sections, Slip Road & junctions as location given in schedule - B, and wherever else required as per Manual.
- ii. High mast Lighting

High mast lighting shall be provided along the Project Highway at Toll Plazas, Rest-areas, Truck Laybys, at Grade Major Junctions and Bypass Start & End and wherever required as per Manual

Not to be limited to the above specified locations and it shall be finalized in consultation with Authority Engineer / Project Director, NHAI.

Concessionaire shall install, maintain and operate highway lighting/ street lighting and electrical connection in the name of authority during entire concession period including operation & maintenance period. The electricity bills for the highway lighting being used for purpose of illuminating the highway shall be borne by the Authority.

Tunnel lighting: Proper lighting arrangements at tunnel approach, portals and inside tunnel shall be made as per Schedule D and the location shall be finalized in consultation with IE. Tunnel lighting shall be provided as per CIE 88- 2004 and BS 5489 or any other latest specifications.

d) Pedestrian Facilities

Pedestrian facilities in the form of guard rails, footpath, lighting, etc. shall be provided as specified in Manual referred in Schedule D.

e) Truck Lay-byes Nil

f) Bus Bays and Bus Shelters

The concessionaire shall provide 14 nos. of Bus Shelters along the project highway at the locations given in Appendix C I. The locations of these bus bays shall be finalized by the concessionaire in consultation with the IE.

g) Pedestrian/Cattle Crossing:

Pedestrian facilities shall be provided in accordance with the Manual of Specifications and Standards as referred in Schedule "D".

h) Traffic Aid Posts

Traffic aid post shall be constructed at the location identified by the Authority as per manual.

i) Medical Aid Post

Medical aid post shall be constructed at the location identified by the Authority as per manual.

j) Vehicular Rescue Posts

Vehicular aid post shall be constructed at the location identified by the Authority as per manual.

k) Ambulance

One no ambulance including its operation along with required staff and maintenance units having facilities as per latest NHAI/ policy guide lines/ strengthening the incident management services/2018/policy no 12.19 dated 20-03-2018 shall be provided from construction completion up to end of concession period.

l) Cranes

One no crane fitted with GPS based vehicle tracking system with minimum capacity of 30T as per manual including its operation and required staff and maintenance units shall be provided from construction Completion up to end of concession period.

m) Highway Patrolling vehicle

One no highway patrol vehicle including its operation along with required staff and maintenance units having facilities as per latest NHAI/ policy guide lines/ strengthening the incident management services/2018/policy no 12.19 dated 20-03-2018 shall be provided from construction completion up to end of maintenance period.

n) Landscaping and Tree Plantation

Landscaping of the highway shall be done on, but not limited to the following

- i. Toll Plaza Area, Truck lay bye area and Interchange.
- ii. Road-side avenue tree plantation as per GreenHighwayPolicy2015.

Landscaping, Beautification, Median & Avenue Plantation and Tree Shifting.

I. Landscaping , Beautification and Median Plantation

Landscaping of the highway shall be done on Toll Plaza areas, Truck lay bye areas, Interchanges, below the viaducts and islands along with landscaping and beautification of Median of approaches of structures with hedges of 2m. thick Duranta of Red and Golden green colour, One row of shrubs like madhukamni, Chandni, Tabebuia rosea, Tecoma stens, Tabebuia argentia and Bouganvillas of different colours shall be planted. The pattern of hedge and colourful plants will be as follows:

- a) Medians of approaches of bridges/structures including continuous road upto 600m. each side and near habitation will be planted with 1 meter thick hedge of Red Duranta and 1m. thick hedge of Golden Duranta making 2m. thick hedge in staggered fashion. Thus, each side of 600m. length of hedge will have 75m. continuous hedge(2m. thick) at left of median alternate with 75m. continuous hedge (2m. thick) at right of median in staggered manner. Red colour hedge will be maintained at 60

cm height while golden green colour hedge will be maintained at 1m. height. There shall be one row of shrub and small tree like Madhukamni, Chandni, Tabebuia Rosia, Tecoma stens, Tabebuia argentia, Bouganvilla, Gulturra, Cassia biflora etc. One side of approach will have only one species to have a single colour scheme upto total approach length of one structure. The height of saplings shall have at least 1.5 m. height at the time of plantation.

- b) Approaches of grade separators be planted with small to middle size tree species like Tecoma, Cassia biflora, Gulturra, Amaltas, Tabebuia etc.
- c) The concessionaire shall be responsible for filling median with good plantable soil upto 70cm. depth. There shall be 4 rows of plants in median (excluding approaches of structures). Two rows each side after leaving 1m. distance from carriageway will have species like Tecoma, Cassia biflora, Tabebuia Rosea, Tabebuia argentia, Caesalpinia pulcherrima etc. at 3m. interval (Plant to Plant). Another 2 rows will be planted 6m. apart (Plant to Plant) in staggered manner leaving 1m. distance from centre of median to accommodate proper drainage of water. These two rows will have species like Kachnar, Kanak Champa, Amaltas, Tabebuia, Saoni, Bottle brush, Jacaranda etc. The height of saplings at the time of plantation should be at least 1.5m.
- d) The Species to be planted at Toll Plaza areas, Truck lay bye areas, Interchanges, below the viaducts and islands for beautification shall be approved by Authority Engineer and Authority.

II. Landscaping, Beautification and Avenue Plantation:-

The Concessionaire will be responsible to dig continuous trench of 75 cm. width and 50 cm. depth on the extreme edge of ROW leaving 1m. space outer side to heap the dug soil. This will demarcate the boundaries of ROW from that of private field. While making heap care should be taken to leave some space towards trench so that the trenches are not filled with such heaped soil by angle of repose.

The concessionaire shall be responsible to plant and maintain minimum 1400 nos. of saplings per km. length of highway in avenue i.e. on both sides of highway wherever space is required. The pit size would be 60cm x 60 cm x 60 cm and 1/3 of volume & pit should be filled with good plantable soil and 1/3 of volume with cow dung manure (CDM). Species of plants/ saplings to be planted on avenue shall be approved by the Independent Engineer and Authority. Cement Concrete Tree Guards shall be installed with all the Avenue tree plantations at the ROW Edge for protection of the same. Wired Fencing shall be used for protection of other Plantation.

In ROW, the first row to be planted with Kachnar, Amaltas, Tabebuia, Saoni, Tecoma, bottle brush, Kankchampa etc at 3m. interval (plant to plant).

The second row of ROW shall be planted with Neem, Bel, Kaith, Safed siris, Mahogany, Karanj, Jamun, sissoo, Arjun etc at 6m. interval. Black cotton soil to be planted with safed siris, water logged areas with Jamun and Arjun and Dry and stony areas to be planted with species like Chirol, Neem. Each km. should have at least one plant of Peepal, Bargad, Imli and Aam.

The edge of ROW should invariably be planted with Bamboo species preferably with Katang bamboo making a green curtain. The Bamboos will be planted on the soil heaped on the extreme edge of ROW at 4m. intervals. Seed of Ber, Sitafal etc. should be soon in gaps between bamboo plants just before monsoon.

The saplings of minimum 2m. height and more than 2 years of age are to be planted in ROW at the time of plantation. The root system of such saplings should not be coiled. This must be ensured by selecting saplings in bigger size poly pots. For bamboo species, the plant should be more than 1 year old and the rhizome of bamboo should be of male thumb thickness. The number of saplings to be planted in ROW shall be as per strip chart as prepared by Authority engineer. This will be in conformity to IRC:SP:21:2009 except the last row where the Bamboo species are planted at 4m. interval.

Locations of Bus Shelters

S.No	Design Chainage (Km)	Side	Remarks
1	3200	Both	
2	9050	Both	
3	11750	Both	
4	15150	Both	
5	17550	Both	
6	19500	Both	
7	23600	Both	
8	26250	LHS	

Note: The location shown above for Bus shelter is indicative and it may vary as per actual site condition and No CHANGE OF SCOPE shall be provided in case of change on location.

← VIDISHA

MEHULWA →

CHAINAGE	8+075
SKEW ANGLE	0°
TYPE	BOX CULVERT
SPAN	1x5x4m
NEW CONSTRUCTION	

CHAINAGE	8+075
SKEW ANGLE	0°
TYPE	BOX CULVERT
SPAN	1x5x4m
NEW CONSTRUCTION	

DATUM LEVEL

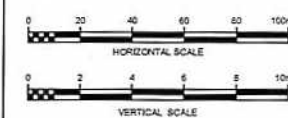
FINISHED ROAD LEVELS @ MEDIAN KERB EDGE (LHS)	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
VERTICAL ALIGNMENT (LHS)	R=11672.799 L=410.000
GROUND LEVELS LEFT MEDIAN EDGE	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
GROUND LEVELS LHS @ 15m FROM PCL	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
FINISHED ROAD LEVELS @ MEDIAN KERB EDGE (RHS)	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
VERTICAL ALIGNMENT (RHS)	R=11672.799 L=410.000
GROUND LEVELS RIGHT MEDIAN EDGE	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
GROUND LEVELS RHS @ 15m FROM PCL	429.462 429.708 429.982 430.225 430.497 430.777 431.066 431.363 431.669 431.983 432.306 432.638 432.978 433.326 433.684 434.049 434.424 434.807 435.196 435.586 435.976 436.357 436.727 437.084 437.429 437.762 438.083 438.391 438.688 438.972 439.244 439.504 439.752 439.987 440.211 440.422 440.621 440.808 440.983 441.145 441.296 441.434 441.560 441.674 441.776 441.866 441.943 442.009 442.062 442.103 442.132 442.148 442.153 442.145 442.125 442.093 442.049 441.993 441.924 441.852 441.780 441.707 441.635 441.563 441.490 441.418 441.346 441.273 441.201 441.128 441.056 440.984 440.911 440.839 440.767 440.694 440.622 440.550 440.477 440.405 440.333 440.260 440.188 440.115 440.043 439.971 439.898 439.826 439.754 439.680 439.602 439.520 439.433 439.341 439.245 439.144 439.038 438.928 438.813 438.693 438.569
HORIZONTAL ALIGNMENT	D=1834.213
SUPER ELEVATION	RHS=2.500%
CHAINAGE	8+000 8+010 8+020 8+030 8+040 8+050 8+060 8+070 8+080 8+090 8+100 8+110 8+120 8+130 8+140 8+150 8+160 8+170 8+180 8+190 8+200 8+210 8+220 8+230 8+240 8+250 8+260 8+270 8+280 8+290 8+300 8+310 8+320 8+330 8+340 8+350 8+360 8+370 8+380 8+390 8+400 8+410 8+420 8+430 8+440 8+450 8+460 8+470 8+480 8+490 8+500 8+510 8+520 8+530 8+540 8+550 8+560 8+570 8+580 8+590 8+600 8+610 8+620 8+630 8+640 8+650 8+660 8+670 8+680 8+690 8+700 8+710 8+720 8+730 8+740 8+750 8+760 8+770 8+780 8+790 8+800 8+810 8+820 8+830 8+840 8+850 8+860 8+870 8+880 8+890 8+900 8+910 8+920 8+930 8+940 8+950 8+960 8+970 8+980 8+990 9+000

DESIGN CONSULTANT:

LEA ASSOCIATES SOUTH ASIA PVT. LTD.,
B-1, E-27, 11th FLOOR, MOHAN COOPERATIVE
INDUSTRIAL ESTATE, MATHURA ROAD,
NEW DELHI-110044



SCALE:



CLIENT:



NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways)
Government of India

PROJECT:

"FOUR LANE OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"

DRAWING TITLE:

PLAN & PROFILE
(Km. 8+000 To Km. 9+000)

DRG. NO.

73580/LASA/HIGHWAYS/IDPR/PP-9

REV.

0

DATE:

JULY 2022

DRAWN: Ravindra Patwal

DESIGNED

M.Rakesh

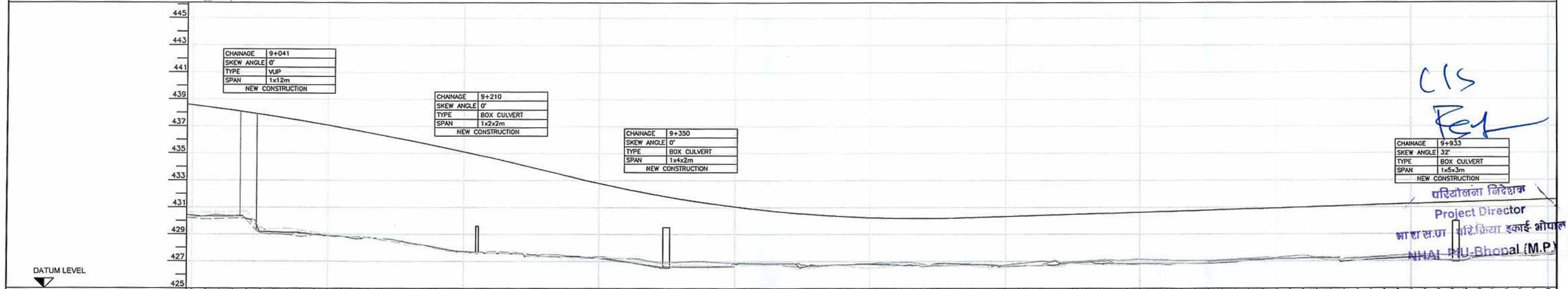
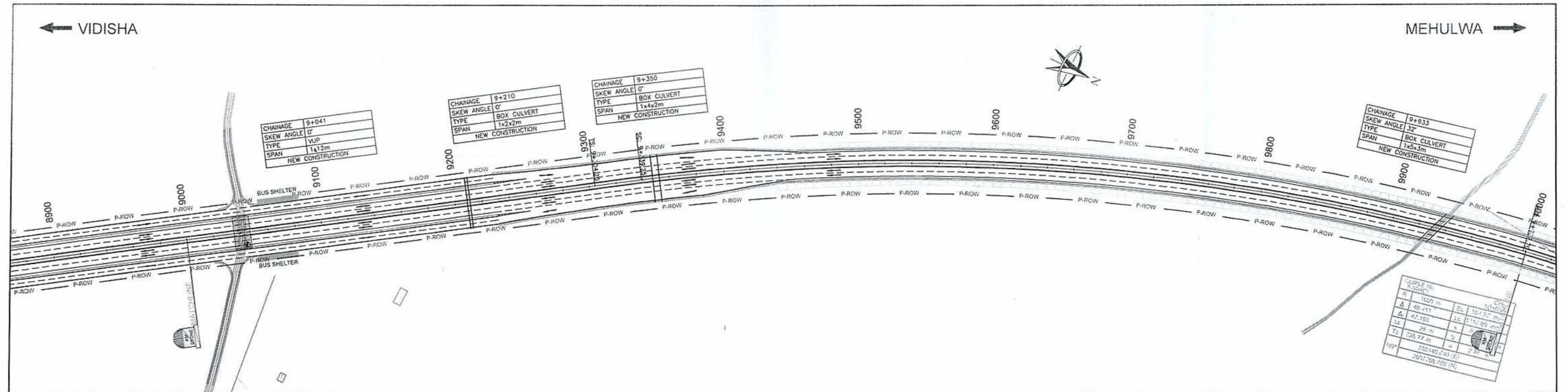
CHECKED

Sujoy Sinha

APPROVED

J.K.Das

SHEET SIZE A2



FINISHED ROAD LEVELS @ MEDIAN KERB EDGE (LHS)	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
VERTICAL ALIGNMENT (LHS)	R=21616.423 L=360.000 R=10775.292 L=290.000 P=0.302% L=649.005
GROUND LEVELS LEFT MEDIAN EDGE	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
GROUND LEVELS LHS @ 15m FROM PCL	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
FINISHED ROAD LEVELS @ MEDIAN KERB EDGE (RHS)	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
VERTICAL ALIGNMENT (RHS)	R=21616.423 L=360.000 R=10775.292 L=290.000 P=0.302% L=649.005
GROUND LEVELS RIGHT MEDIAN EDGE	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
GROUND LEVELS RHS @ 15m FROM PCL	438.569 438.440 438.307 438.169 438.026 437.879 437.727 437.571 437.409 437.244 437.073 436.899 436.719 436.534 436.345 436.152 435.954 435.751 435.543 435.331 435.115 434.893 434.668 434.437 434.202
HORIZONTAL ALIGNMENT	D=1834.213 R=1600.000 L=1316.689
SUPER ELEVATION	
CHAINAGE	9+000 9+010 9+020 9+030 9+040 9+050 9+060 9+070 9+080 9+090 9+100 9+110 9+120 9+130 9+140 9+150 9+160 9+170 9+180 9+190 9+200 9+210 9+220 9+230 9+240 9+250 9+260 9+270 9+280 9+290 9+300 9+310 9+320 9+330 9+340 9+350 9+360 9+370 9+380 9+390 9+400 9+410 9+420 9+430 9+440 9+450 9+460 9+470 9+480 9+490 9+500 9+510 9+520 9+530 9+540 9+550 9+560 9+570 9+580 9+590 9+600 9+610 9+620 9+630 9+640 9+650 9+660 9+670 9+680 9+690 9+700 9+710 9+720 9+730 9+740 9+750 9+760 9+770 9+780 9+790 9+800 9+810 9+820 9+830 9+840 9+850 9+860 9+870 9+880 9+890 9+900 9+910 9+920 9+930 9+940 9+950 9+960 9+970 9+980 9+990 10+000
DESIGN CONSULTANT:	LEA ASSOCIATES SOUTH ASIA PVT. LTD., B-1, E-27, 11th FLOOR, MOHAN CO-OPERATIVE INDUSTRIAL ESTATE, MATHURA ROAD, NEW DELHI-110044
SCALE:	HORIZONTAL SCALE: 1:1000 VERTICAL SCALE: 1:100
CLIENT:	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road Transport & Highways) Government of India
PROJECT:	"FOUR LANE OF VIDISHA TO HINOTIYA SECTION OF NH-346 IN THE STATE OF MADHYA PRADESH ON HAM MODE"
DRAWING TITLE:	PLAN & PROFILE (Km. 9+000 To Km. 10+000)
DRG. NO.	73580/LASA/HIGHWAYS/IDPRUPP-10
DATE:	JULY 2022
DRAWN:	Ravindra Patwal
DESIGNED:	M.Rakesh
CHECKED:	Sujay Sinha
APPROVED:	J.K.Das
REVISION	
BY	
DESCRIPTION	
DATE	
MKD.	
R1	REVISION
R2	REVISION
R3	REVISION
R4	REVISION

