

TYPE	DESCRIPTION	LENGTH(M)
TCS-1	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN BUILT UP AREA WITH BOTH SIDE FOOTPATH CUM RCC RECTENGULAR DRAIN (RECONSTRUCTION OF EXISTING PAVEMENT)	1300
TCS-5	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH TOE WALL ON VALLEY SIDE & OPEN TRAPEZOIDAL DRAIN ON HILL SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)	1125
TCS-6	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH BOTH SIDE OPEN TRAPEZOIDAL DRAIN ON HILL SECTION (RECONSTRUCTION OF EXISTING PAVEMENT)	1275
TCS-7	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH OPEN TRAPEZOIDAL DRAIN ON HILL SIDE AND EARTHEN SHOULDER ON VALLEY SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)	1576
TCS-8	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOILDER IN RURAL AREA WITH BREAST WALL ON HILL SIDE(RECONSTRUCTION OF EXISTING PAVEMENT)	1250
TCS-9	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT CUTTING SECTION IN RURAL AREA WITH BREAST WALL ON HILL SIDE(RECONSTRUCTION OF EXISTING PAVEMENT)	2100
TCS-10	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE(RECONSTRUCTION OF EXISTING PAVEMENT)	100
TCS-11	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND OPEN TRAPEZOIDAL DRAIN ON HILL SIDE(RECONSTRUCTION OF EXISTING PAVEMENT)	3266
TCS-12	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT RECONSTRUCTION STRETCH IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND BREAST WALL ON HILL SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)	820
TCS-13	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH BOTH SIDE RETAINING WALL ON VALLEY SIDE(RECONSTRUCTION OF EXISTING PAVEMENT)	50
TCS-14	TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT RECONSTRUCTION STRETCH IN RURAL AREA WITH TOE WALL ON VALLEY SIDE AND BREAST WALL ON HILL SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)	325
	TOTAL LENGTH	13187

Chaina	age (Km)	Length of	TCS No.		
From	То	TCS	ICS NO.		
118850	118920	70	TCS-12		
118920	119020	100	TCS-8		
119020	119070	50	TCS-12		
119070	119120	50	TCS-13		
119120	119370	250	TCS-5		
119370	119470	100	TCS-14		
119470	120070	600	TCS-11		
120070	120220	150	TCS-1		
120220	120620	400	TCS-11		
120620	120720	100	TCS-5		
120720	120970	250	TCS-7		
120970	121870	900	TCS-9		
121870	122070	200	TCS-7		
122070	122120	50	TCS-11		
122120	122220	100	TCS-8		
122220	122620	400	TCS-12		
122620	123320	700	TCS-11 TCS-14		
123320	123470	150			
123470	123620	150	TCS-5		
123620	123720	100	TCS-8		
123720	124020	300	TCS-11		
124020	124320	300	TCS-8		
124320	124370	50	TCS-12		
124370	124820	450	TCS-9		
124820	124970	150	TCS-7		
124970	125070	100	TCS-11		
125070	125170	100	TCS-7		
125170	125220	50	TCS-10		
125220	125370	150	TCS-7		
125370	125406	36	TCS-11		
125406	125456	50	TCS-5		
125456	125506	50	TCS-6		
125506	125556	50	TCS-7		
125556	125581	25	TCS-10		

Chaina	age (Km)	Length of	TCC No		
From	То	TCS	TCS No.		
125581	125606	25	TCS-7		
125606	125681	75	TCS-9		
125681	125706	25	TCS-10		
125706	125806	100	TCS-8		
125806	125856	50	TCS-11		
125856	125881	25	TCS-8		
125881	125931	50	TCS-5		
125931	125956	25	TCS-14		
125956	126031	75	TCS-8		
126031	126081	50	TCS-11		
126081	126156	75	TCS-6		
126156	126206	50	TCS-5		
126206	126256	50	TCS-6		
126256	126381	125	TCS-11		
126381	126531	150	TCS-12		
126531	126656	125	TCS-5		
126656	126706	50	TCS-11		
126706	126731	25	TCS-6		
126731	127031	300	TCS-11		
127031	127051	25	TCS-7		
127056	127156	100	TCS-9		
127156	127356	200	TCS-11		
127356	127506	150	TCS-6		
127506	127556	50	TCS-5		
127556	127606	50	TCS-11		
127606	128031	425	TCS-6		
128031	128256	225	TCS-9		
128256	128381	125	TCS-6		
128381	128456	75	TCS-8		
128456	128506	50	TCS-6		
128506	128581	75	TCS-11		
128581	128806	225	TCS-8		
128806	129006	200	TCS-7		
129006	129081	75	TCS-6		
129081	129381	300	TCS-7		
129381	129531	150	TCS-11		
129531	130681	1150	TCS-1		
130681	130807	126	TCS-7		
130807	130857	50	TCS-9		
130857	131157	300	TCS-5		
131157	131407	250	TCS-6		
131407	131707	300	TCS-9		
131707	131807	100	TCS-12		
131807	131907	100	TCS-8		
131907	131957	50	TCS-14		
131957	132007	50	TCS-8		
132007	132037	30	TCS-11		
	Length	13187	100 11		

Scale :-										
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DATE: Dec, 2019	APPRD.	CHKD.	DESCRIPTION	DATE	MKD.					
DC0, 2013	REVISIONS									

NATIONAL HIGHWAYS AND INFRASTRUCTURE CLIENT: DEVELOPMENT CORPORATION LTD.
PTI Building,3rd Floor, 4 Parliament Street,
New Delhi - 110001

PROJECT:

CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY,

PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT

OF 2 LANING OF CHURACHANDPUR - TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR)

ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR

(PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017) SUBMISSION TYPE :

FINAL DETAILED PROJECT REPORT PACKAGE - IVA

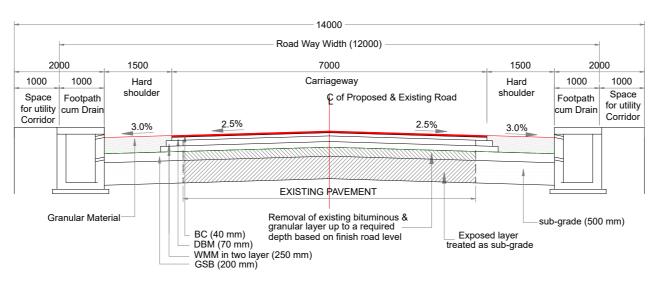
TYPICAL CROSS SECTION



CONSULTANT :



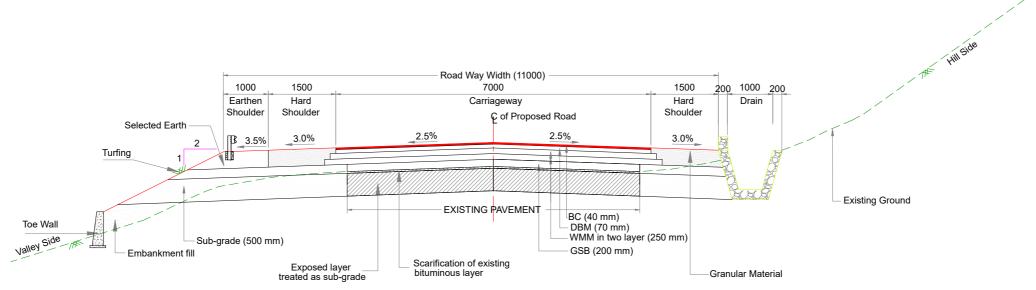
	DWG NO:-CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-IVA/TCS								
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	S.MANDAL	B.DAS	S.SADHU	A.K.DAS					



	TCS - 01	
CHAIN	LENGTH	
FROM	TO	(M)
120070	120220	150
129531	130681	1150
TOTAL LE	1300	

TCS-1:- TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN BUILT UP AREA WITH BOTH SIDE FOOTPATH CUM RCC RECTENGULAR DRAIN

(RECONSTRUCTION OF EXISTING PAVEMENT)



	TCS - 05									
	CHAIN	AGE (M)	LENGTH							
	FROM	TO	(M)							
	119120	119370	250							
Г	120620	120720	100							
	123470	123620	150							
Г	125406	125456	50							
	125881	125931	50							
Г	126156	126206	50							
	126531	126656	125							
	127506	127556	50							
	130857	131157	300							
	TOTAL LI	ENGTH (M)	1125							

TCS-5 :-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH TOE WALL ON VALLEY SIDE & OPEN TRAPEZOIDAL DRAIN ON HILL SIDE

(RECONSTRUCTION OF EXISTING PAVEMENT)

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MKD.	DATE	DESCRIPTION	CHKD.	APPRD.	DATE: Dec, 2019	
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PROJECT:

CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.
PTI Building, 3rd Floor, 4 Parliament Street,
New Delhi - 110001

PROJECT:

CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY,

PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT

OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR)

ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR

(PKG:NHIDICLI/DPR/CHJ-JP-PMANIPUR/2017)

TYPICAL CROSS SECTION

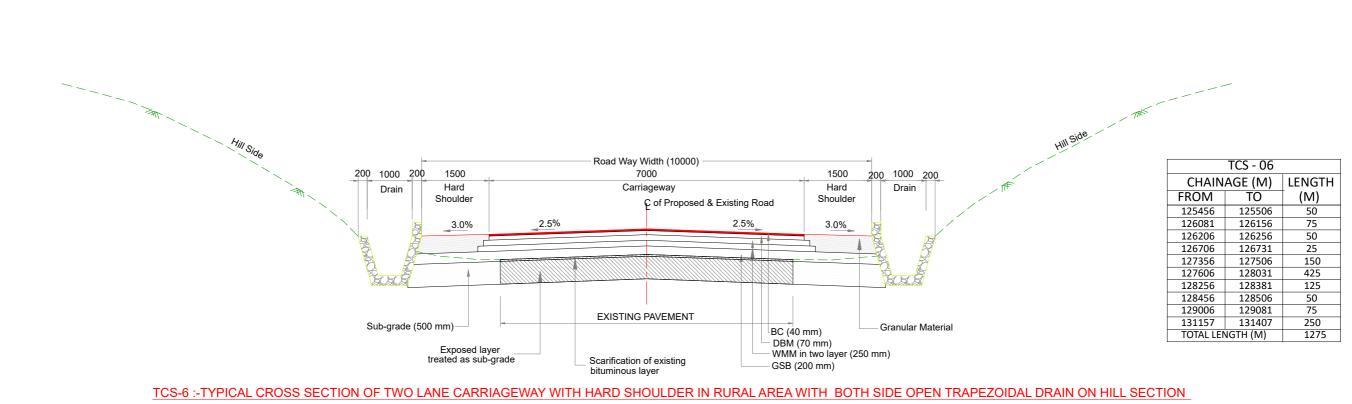
SUBMISSION TYPE:

FINAL DETAILED PROJECT REPORT

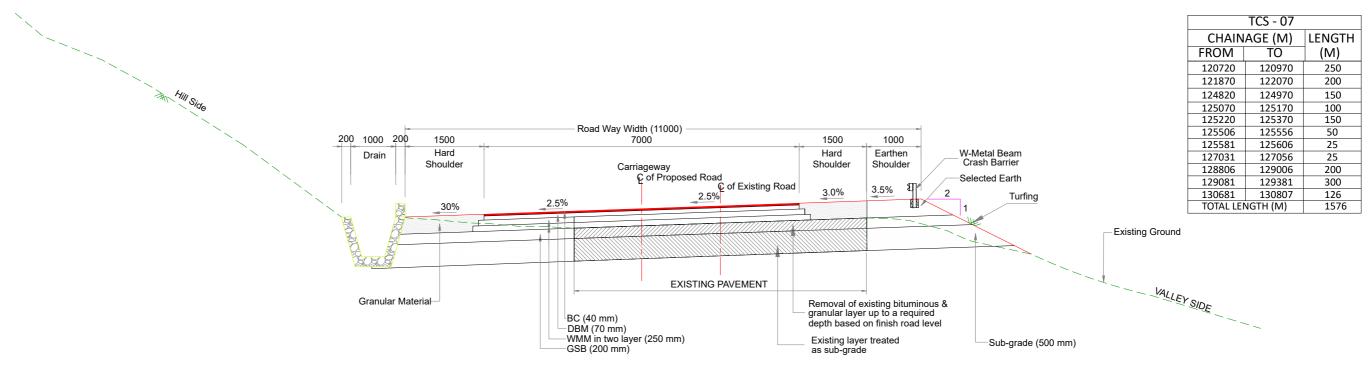
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	S.MANDAL	B.DAS	S.SADHU	A.K.DAS					

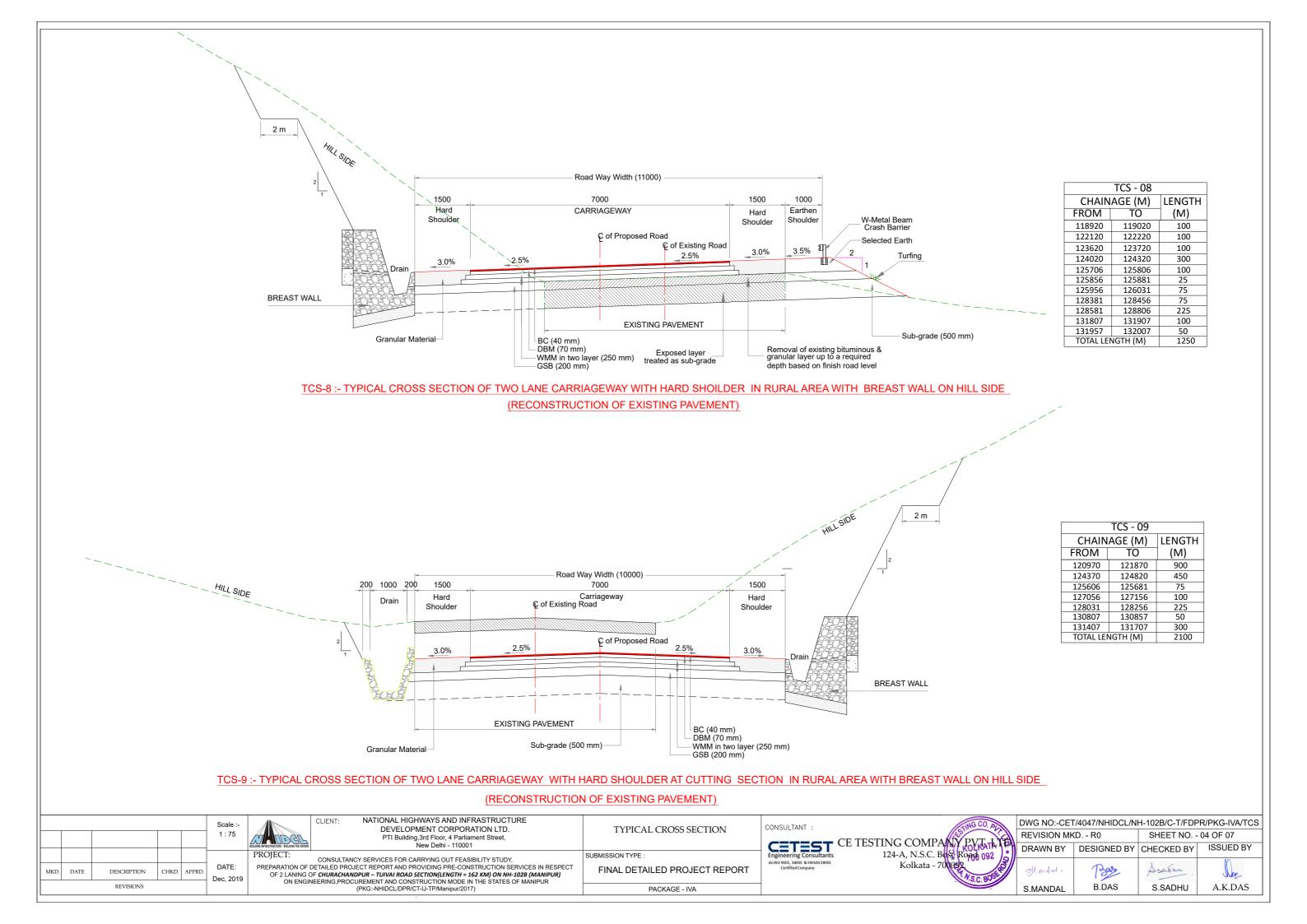


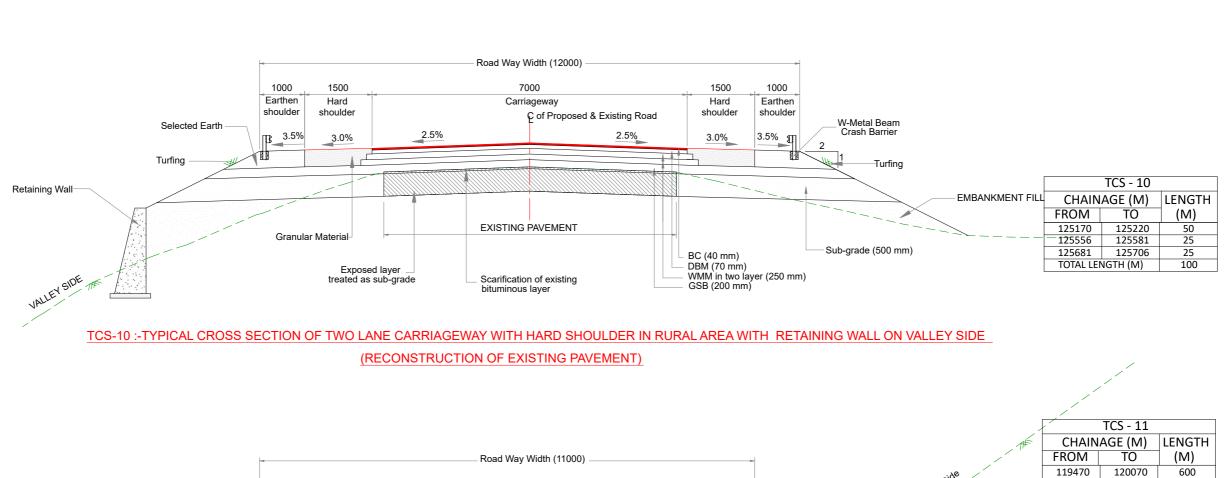
(RECONSTRUCTION OF EXISTING PAVEMENT)

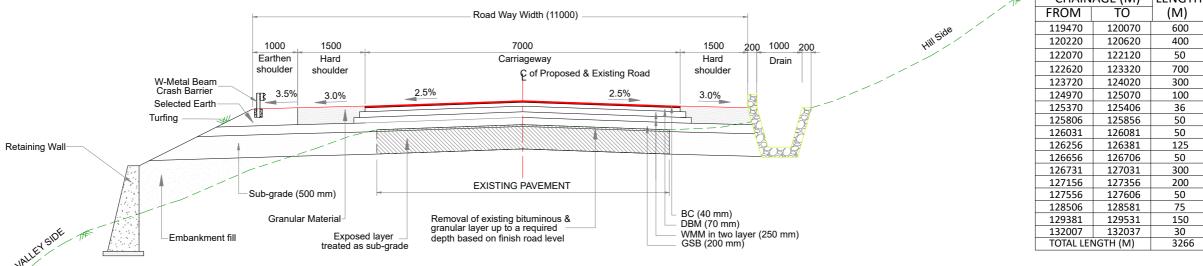


TCS-7: TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH OPEN TRAPEZOIDAL DRAIN ON HILL SIDE AND EARTHEN SHOULDER ON VALLEY SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)

			Scale :-				CLIENT:	NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	TYPICAL CROSS SECTION	CONSULTANT :	TING CO. A)	DWG NO:-CE	T/4047/NHIDCL/N	H-102B/C-T/FDP	PR/PKG-IVA/TCS
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	MKD. DATE	DESCRIPTION	CHKD. APP	RD. Dec.		PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR)		FINAL DETAILED PROJECT REPORT	An ISO 9001, 14001 & OHSAS 18001 Certified Company	Kolkata - 700092	glandul.	Pass	Dsabnu.	la	
	REVISIONS		200,		ON ENGINEERING,PF	ROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017)	PACKAGE - IVA	1		S.MANDAL	B.DAS	S.SADHU	A.K.DAS		

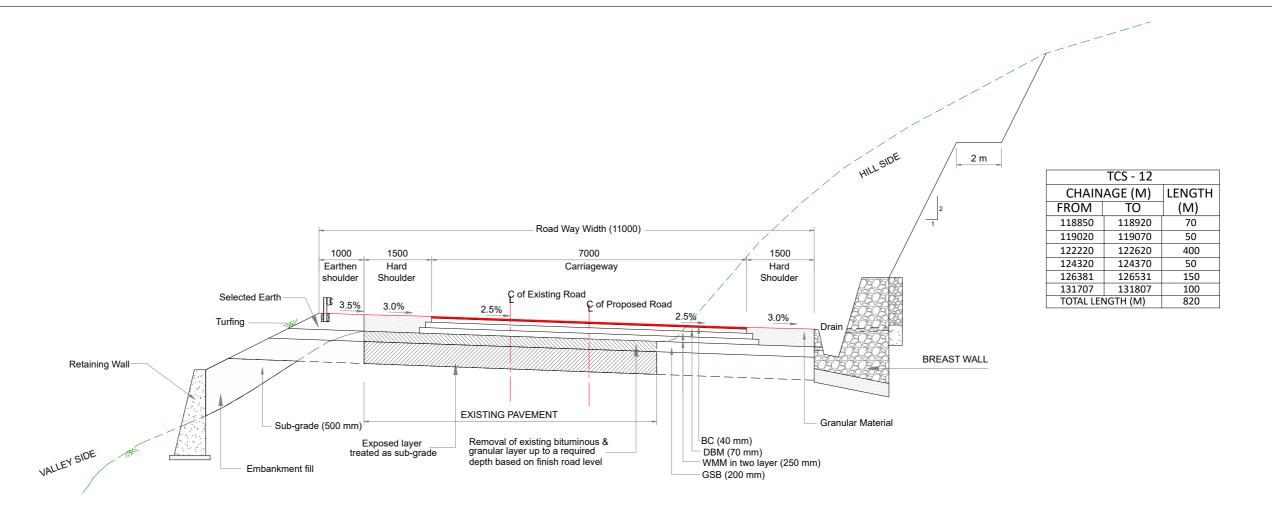






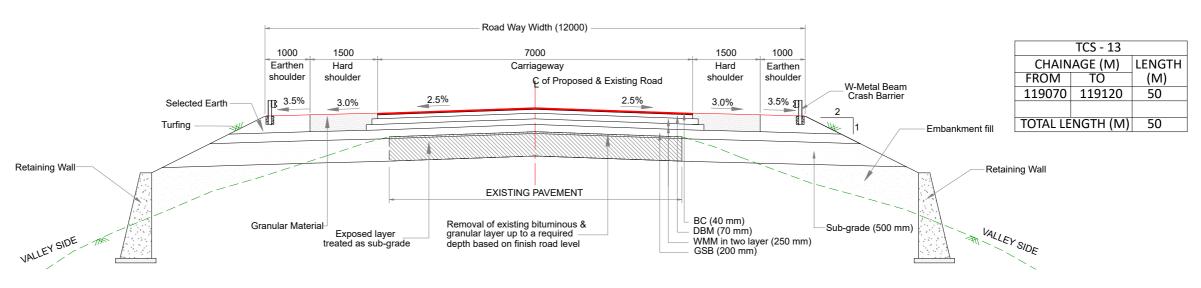
TCS-11:-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND OPEN TRAPEZOIDAL DRAIN ON HILL SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)

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	1:75		CORPORATION LTD. or, 4 Parliament Street,	TYPICAL CROSS SECTION		CE TECTINIC COMPANY DVT LTC	REVISION MK	(D R0	SHEET NO	05 OF 07
			ni - 110001		CETEST	CE TESTING COMPANY PYTATE	DRAWN BY	DESIGNED BY	CHECKED BY	ISSUED BY
		PROJECT: CONSULTANCY SERVICES FOR CARRYING O	OUT FEASIBILITY STUDY,	SUBMISSION TYPE :	Engineering Consultants An ISO 9001, 14001 & OHSAS 18001	124-A, N.S.C. Bose Road 092	/ 			M
MKD. DATE DESCRIPTION CHKD.	DATE: Dec, 2019	PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LI		FINAL DETAILED PROJECT REPORT	Certified Company	Kolkata - 700092	skandul.	Par	Dsabni.	Noc
REVISIONS	Dec, 2019	ON ENGINEERING,PROCUREMENT AND CONSTRUCTION (PKG:-NHIDCL/DPR/CT-IJ-TP/Ma		PACKAGE - IVA	1	13.0.80	S.MANDAL	B.DAS	S.SADHU	A.K.DAS



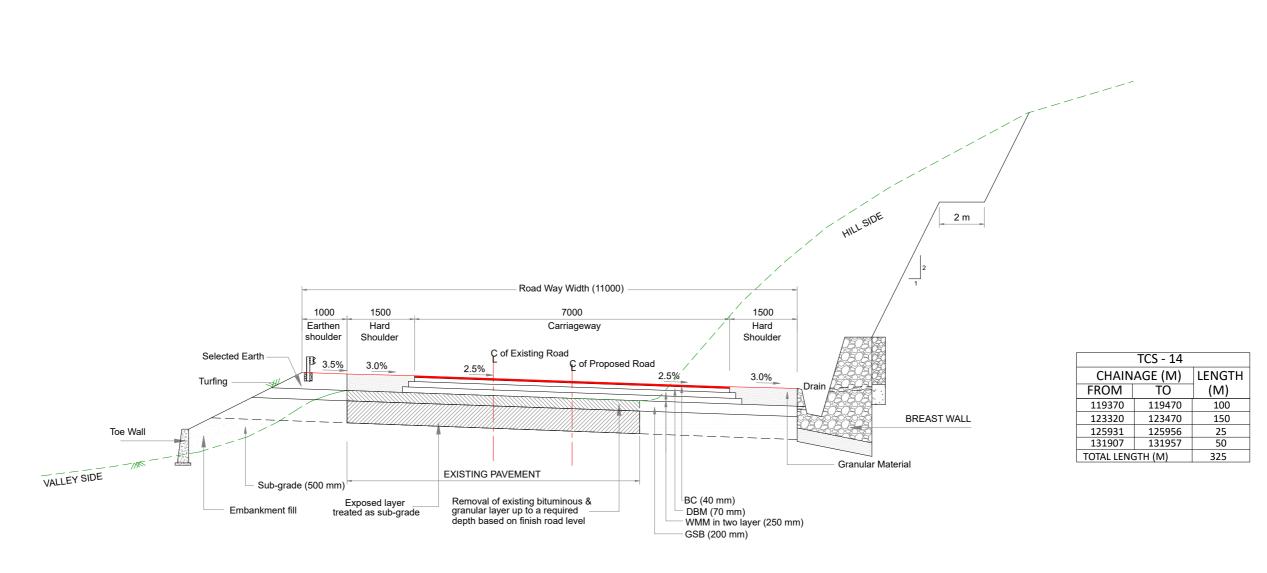
TCS-12:-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT RECONSTRUCTION STRETCH IN RURAL AREA WITH RETAINING WALL ON VALLEY SIDE AND BREAST WALL ON HILL SID

(RECONSTRUCTION OF EXISTING PAVEMENT)



TCS-13:-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER IN RURAL AREA WITH BOTH SIDE RETAINING WALL ON VALLEY SIDE (RECONSTRUCTION OF EXISTING PAVEMENT)

			Scale :- 1 : 75	CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI Building, 3rd Floor, 4 Parliament Street,	TYPICAL CROSS SECTION	CONSULTANT :	CE TESTING COMPANY P.V.TL.TE	REVISION MKD - R0		H-102B/C-T/FDPR/PKG-IVA/TCS SHEET NO 06 OF 07		
				PROJECT:	New Delhi - 110001	SUBMISSION TYPE :	Engineering Consultants	124-A, N.S.C. Bose Road ng2 *	DRAWN BY	DESIGNED BY	CHECKED BY	ISSUED BY
MKD. DATE	DESCRIPTION	CHKD. APPRD.	DATE: Dec, 2019	PREPARATION OF DETAILED P OF 2 LANING OF CHURACE	CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY, ITION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR)	FINAL DETAILED PROJECT REPORT	An ISO 9001, 14001 & OHSAS 18001 Certified Company	Kolkata - 700092	gladul.	Par	Dsabnu.	Doz
	REVISIONS			ON ENGINEERING,PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR (PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017)		PACKAGE - IVA			S.MANDAL	B.DAS	S.SADHU	A.K.DAS



TCS-14:-TYPICAL CROSS SECTION OF TWO LANE CARRIAGEWAY WITH HARD SHOULDER AT RECONSTRUCTION STRETCH IN RURAL AREA WITH TOE WALL ON VALLEY SIDE AND BREAST WALL ON HILL SIDE

(RECONSTRUCTION OF EXISTING PAVEMENT)

Scale :-					
1:75					
DATE: Dec, 2019	APPRD.	CHKD.	DESCRIPTION	DATE	MKD.
Dec, 2019			REVISIONS		
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PROJECT:

CLIENT: NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.
PTI Building, 3rd Floor, 4 Parliament Street,
New Delhi - 110001

(PKG:-NHIDCL/DPR/CT-IJ-TP/Manipur/2017)

PROJECT:

CONSULTANCY SERVICES FOR CARRYING OUT FEASIBILITY STUDY,

PREPARATION OF DETAILED PROJECT REPORT AND PROVIDING PRE-CONSTRUCTION SERVICES IN RESPECT

OF 2 LANING OF CHURACHANDPUR – TUIVAI ROAD SECTION(LENGTH = 162 KM) ON NH-102B (MANIPUR)

ON ENGINEERING, PROCUREMENT AND CONSTRUCTION MODE IN THE STATES OF MANIPUR

SUBMISSION TYPE:
FINAL DETAILED PROJECT REPORT

PACKAGE - IVA

TYPICAL CROSS SECTION



CE TESTING COMPANY PVT I TE 124-A, N.S.C. Bose Road, 092 Kolkata - 700092

DWG NO:-CET/4047/NHIDCL/NH-102B/C-T/FDPR/PKG-IVA/TCS
REVISION MKD. - R0 SHEET NO. - 07 OF 07
DRAWN BY DESIGNED BY CHECKED BY ISSUED BY

S.MANDAL B.DAS S.SADHU A.K.DAS