

DEVELOPED APPROACH ELEVATION (PART 3)

(LEFT HAND SIDE WALL - KALIABOR TINIALI END)

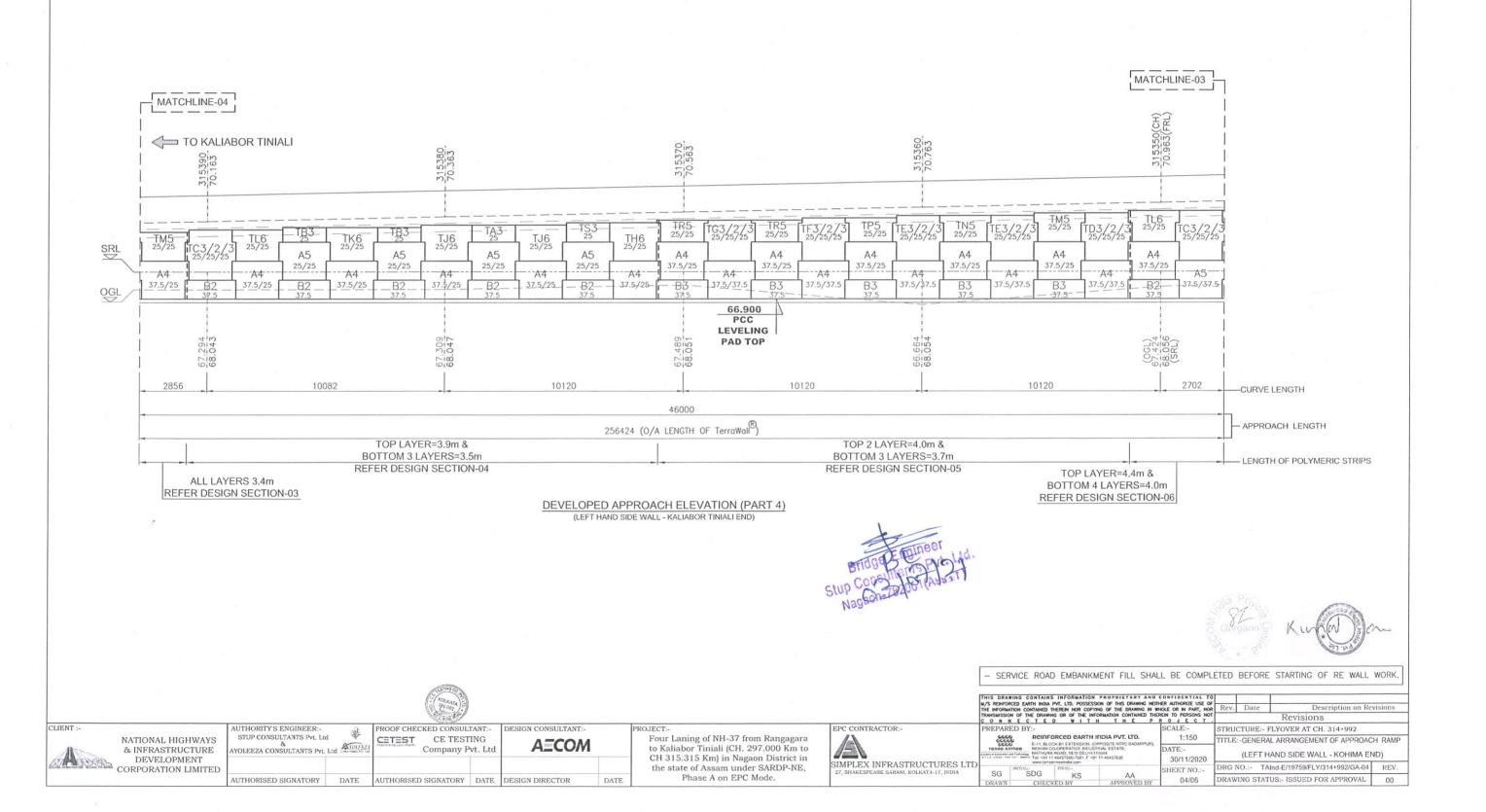


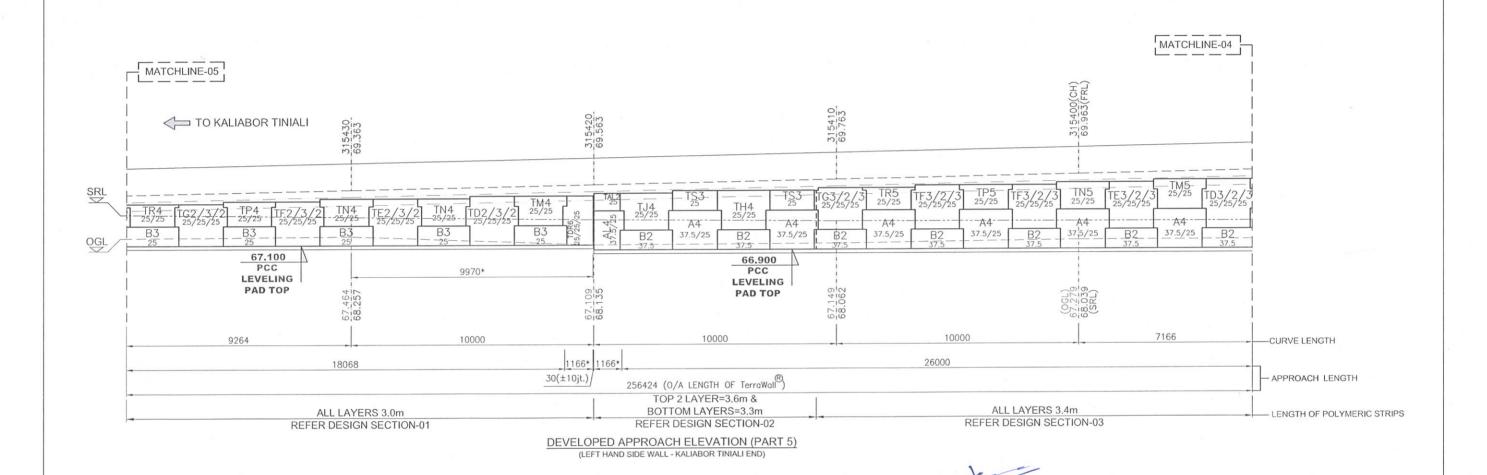




- SERVICE ROAD EMBANKMENT FILL SHALL BE COMPLETED BEFORE STARTING OF RE WALL WORK.

THIS DRAWING CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO W/S REMFORCED EARTH MODA PYT. LTD. POSSESSON OF THIS DEAMNEN DRITHER AUTHORIZE USE OF REV. DATE INFORMATION CONTAINED THEREBY MOR OFFINE OF THE THORNAL ON THAT OF THE PROPERTION CONTAINED THEREBY NO PERSONS NOT TRANSMISSION OF THE DEAMNEN OF OF THE INFORMATION CONTAINED THEREBY TO PERSONS NOT CO. O. N. H. & C. Y. E. D. W. I. Y. H. Y. H. & P. R. O. J. & C. Y. AUTHORITY'S ENGINEER:-STUP CONSULTANTS Pvt. Ltd CLIENT SIGN CONSULTANT: C CONTRACTOR: STRUCTURE:- FLYOVER AT CH. 314+992 Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to 1:150 NATIONAL HIGHWAYS CETEST CE TESTING **A**ECOM AYOLEEZA CONSULTANTS Pvt. Ltd DEVELOPMENT CORPORATION LIMITED Company Pvt. Ltd (LEFT HAND SIDE WALL - KOHIMA END) CH 315.315 Km) in Nagaon District in 30/11/2020 SIMPLEX INFRASTRUCTURES LTD DRG NO.:- TAInd-E/19759/FLY/314+992/GA-04 REV. the state of Assam under SARDP-NE, Phase A on EPC Mode. HEET NO.:-SDG AUTHORISED SIGNATORY DATE DESIGN DIRECTOR DRAWING STATUS:- ISSUED FOR APPROVAL





- SERVICE ROAD EMBANKMENT FILL SHALL BE COMPLETED BEFORE STARTING OF RE WALL WORK.

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CLIENT :

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

AUTHORITY'S ENGINEER:

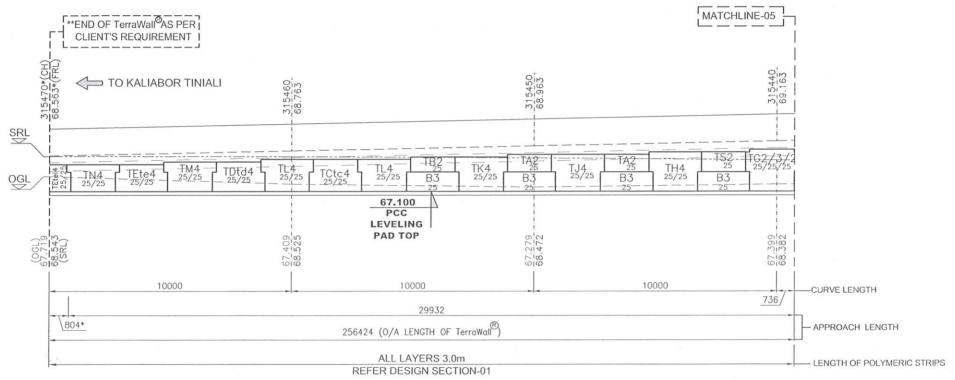
STUP CONSULTANTS Pvt. Ltd AUTHORISED SIGNATORY DATE

ROOF CHECKED CONSULTANT: CE TESTING CETEST Company Pvt. Ltd AUTHORISED SIGNATORY DATE DESIGN DIRECTOR

DESIGN CONSULTANT:-**AECOM**

Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.

EPC CONTRACTOR: SIMPLEX INFRASTRUCTURES LTD



DEVELOPED APPROACH ELEVATION (PART 6) (LEFT HAND SIDE WALL - KALIABOR TINIALI END)







- SERVICE ROAD EMBANKMENT FILL SHALL BE COMPLETED BEFORE STARTING OF RE WALL WORK.

DEVELOPMENT CORPORATION LIMITED

	TAKEN BY THE CONTRACTOR IN POSITION AND RENDERS UN	
ATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT	AUTHORITY'S ENGINEER:- STUP CONSULTANTS Pvl. Ltd	PROOF CHECKED CETEST Cor

CETEST CE TEST	ING	DESIGN CONSULTANT:-
Company P	vt. Lta	ALCOM
AUTHORISED SIGNATORY	DATE	DESIGN DIRECTOR
	CETEST CE TEST Company P	Company Pvt. Ltd

PR	OJECT:-	
	Four Laning of NH-37 from Rangagara	
	to Kaliabor Tiniali (CH. 297.000 Km to	
	CH 315.315 Km) in Nagaon District in	
	the state of Assam under SARDP-NE,	
	Phase A on EPC Mode.	

DATE

EPC CONTRACTOR:-	Pl
SIMPLEX INFRASTRUCTURES LTD	Load
27, SHAKESPEARE SARANI, KOLKATA-17, INDIA	L

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	PREPAR	ED BY:-			SCALE:-	STRUCTURE:- FLYOVER AT CH. 314+992					
TD	CCC	Reini	FORCED EARTH	INDIA PVT. LTD. PPOSITE NTPC BADARPUR).	1:150	TITLE:-GENERAL ARRANGEMENT OF APPROACH RAMP					
	TERRE AR	mee MOHAN MATHU	CO-OPERATIVE INDUS RA ROAD, NEW DELHI-1 11 46457600-7601, F +9	TRIAL ESTATE, 10044	DATE:- 30/11/2020		(LEFT HAND SIDE WALL - KOHIMA END)				
	00	INITIAL:-	FINAL:-	0.00	SHEET NO .:-	DRG N	iO.:-	TAInd-E/19759/FLY/314+992/GA-04	REV.		
	SG	10 10			06/06	DRAWING STATUS:- ISSUED FOR APPROVAL 00					

NOTE :-

-THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. TAIND-E/19759/FLY/314+992/DET-01-FOR PANEL DETAIL REFER PANEL REINFORCEMENT DRAWINGS.
-ANY UNSUITABLE SOIL BENEATH THE RAMP PORTION SHALL BE REMOVED AND REPLACED WITH

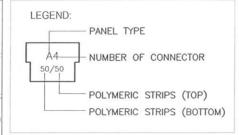
*THESE DIMENSIONS, CHAINAGES & LEVELS SHALL BE VERIFIED AT THE SITE WELL BEFORE COMMENCEMENT OF WORK AND ANY VARIATION (IF FOUND) SHALL BE BROUGHT TO THE NOTICE OF ENGINEER-IN-CHARGE & THIS OFFICE.

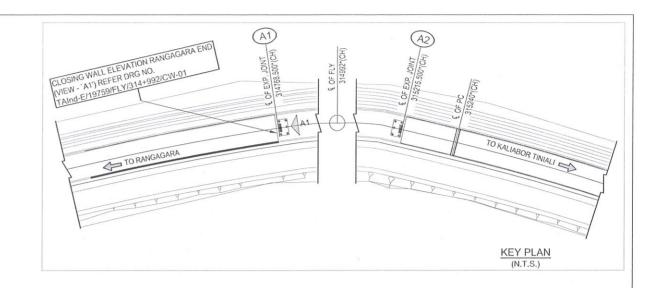
WASTAGE SHALL CUT PIECES OF SOIL REINFORCING ELEMENT WHICH CONTRIBUTES TO WASTAGE SHALL SUITABLY BE PLACED IN DIFFERENT LAYERS EITHER IN REINFORCED OR IN RETAINED ZONE. NONE OF THE PIECES SHALL BE DISPOSED OR LEFT IN A MANNER THAT MAY LEAD TO LAND CONTAMINATION AND SOLID WASTE GENERATION.

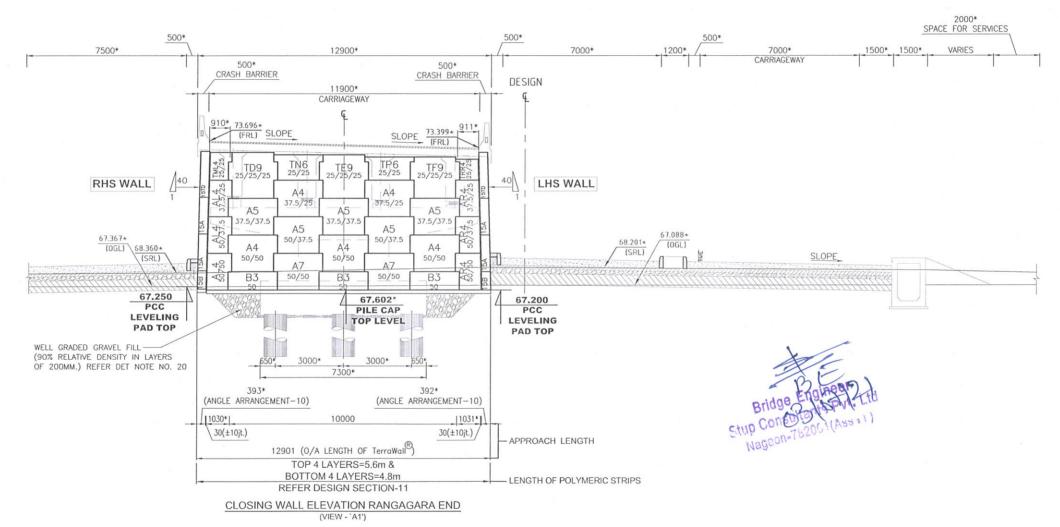
CAUTIONS :-

MOVEMENT OF HEAVY MACHINERIES OR COMPACTION PLANTS (MASS >1 MT) WITH IN 1.5 M DISTANCE FROM PANELS COULD LEAD TO MISALIGNMENT/STRUCTURAL DAMAGE OF THE WALL FACING AND OVERSTRESSING OF THE REINFORCEMENT LAYERS.

- SERVICE ROAD EMBANKMENT FILL SHALL BE COMPLETED BEFORE STARTING OF RE WALL WORK.











NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

CLIENT

AUTHORITY'S ENGINEER: STUP CONSULTANTS Pvt. Ltd AYOLEEZA CONSULTANTS Pvt. Ltd

AUTHORISED SIGNATORY

PROOF CHECKED CONSULTANT: CE TESTING Company Pyt. Ltd DATE AUTHORISED SIGNATORY DATE DESIGN DIRECTOR

DESIGN CONSULTANT: **A**ECOM Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.

PC CONTRACTOR: SIMPLEX INFRASTRUCTURES LTD

THIS DRAWING CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL T MAS REPROPREE EARTH HOLD PYT. LTD. POSSESSON OF THIS DRAWNG RETHER AUTHORIZE USE OF THE DRAWING CONTAINED THESEN HOR COPYRIGO OF THE DRAWING IN HIGHCO OR HORT, TO TRANSISSON OF THE DRAWING OR OF THE INFORMATION CONTAINED THEREIN TO PERSONS NO CO. O. N. N. E. C. T. E. D. W. I. T. H. T. H. E. P. R. O. J. E. C. T. 1:150 30/11/2020 SDG KS 01/01

Revisions TRUCTURE:- FLYOVER AT CH. 314+992 TITLE:-GENERAL ARRANGEMENT OF CLOSING WALL (VIEW A1 - RANGAGARA END) DRG NO.:- TAInd-E/19759/FLY/314+992/CW-01 REV. DRAWING STATUS:- ISSUED FOR APPROVAL

NOTE :-

-THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. NO. TAIND-E/19759/FLY/314+992/DET-01-FOR PANEL DETAIL REFER PANEL REINFORCEMENT DRAWINGS.

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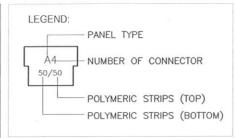
OF ENGINEER-IN-CHARGE & ITIES OFFICE.

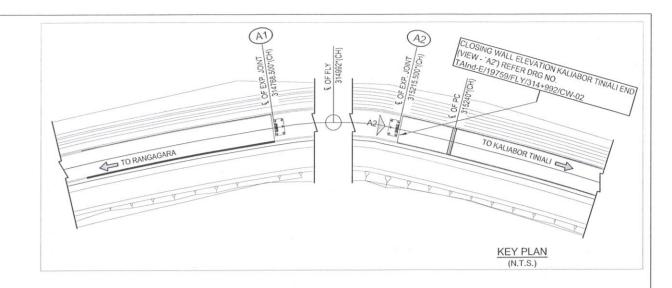
ETSANETHE ALL SMALL CUT PIECES OF SOIL REINFORCING ELEMENT WHICH CONTRIBUTES TO WASTAGE SHALL SUITABLY BE PLACED IN DIFFERENT LAYERS EITHER IN REINFORCED OR IN RETAINED ZONE, NONE OF THE PIECES SHALL BE DISPOSED OR LEFT IN A CONTAMINATION AND SOLID WASTE GENERATION. MANNER THAT MAY LEAD TO LAND CONTAMINATION AND SOLID WASTE GENERATION.

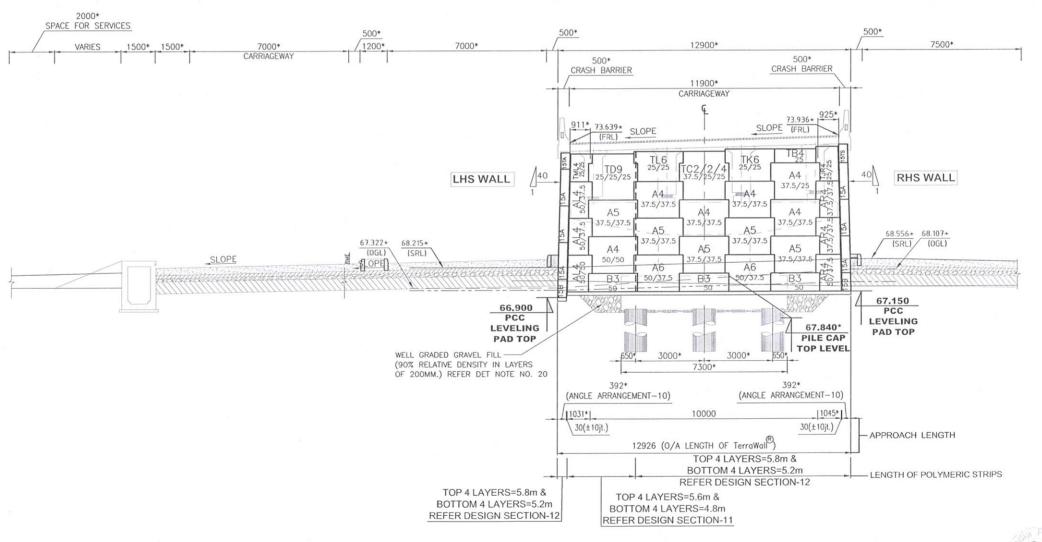
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MOVEMENT OF HEAVY MACHINERIES OR COMPACTION PLANTS (MASS >1 MT) WITH IN 1.5 M DISTANCE FROM PANELS COULD LEAD TO MISALIGNMENT/STRUCTURAL DAMAGE OF THE WALL FACING AND OVERSTRESSING OF THE REINFORCEMENT LAYERS.

- SERVICE ROAD EMBANKMENT FILL SHALL BE COMPLETED BEFORE STARTING OF RE WALL WORK.







CLOSING WALL ELEVATION KALIABOR TINIALI END





CLIENT :

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

UTHORISED SIGNATORY

UTHORITY'S ENGINEER: STUP CONSULTANTS Pvt. Ltd YOLEEZA CONSULTANTS Pvt. Ltd DATE

PROOF CHECKED CONSULTANT: CE TESTING CETEST Company Pvt. Ltd AUTHORISED SIGNATORY DATE

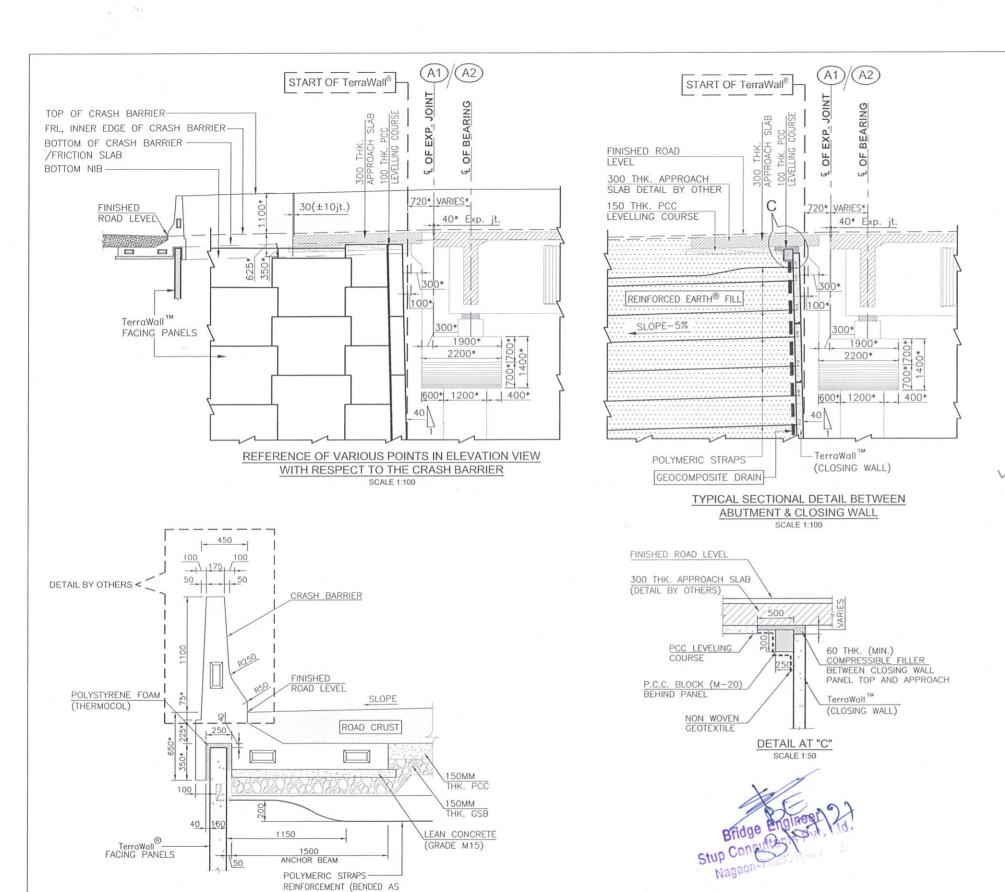
ESIGN CONSULTANT:-A=COM DESIGN DIRECTOR

Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH, 297,000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.

CONTRACTOR SIMPLEX INFRASTRUCTURES LTD

THIS DRAWING CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL T MYS REMFORCED EARTH MODA PYT. LTD. POSSESSON OF THIS DRAWNEN MEMBER AUTHORIZE USE OF THE REFORMATION CONTAINED THEREN MOR COPYING OF THE DRAWNEN IN WHOLE OR IN PART, NO CO N N N E C T E D W I T H T H E P R O J E C T DEPENDANCE OF THE THE PROPERTIES OF T CHECKED BY SG SDG

Revisions TRUCTURE:- FLYOVER AT CH. 314+992 1:150 TITLE:-GENERAL ARRANGEMENT OF CLOSING WALL (VIEW A2 - KALIABOR TINIALI END) 30/11/2020 DRG NO.:- TAInd-E/19759/FLY/314+992/CW-02 REV. HEET NO.:-01/01 DRAWING STATUS:- ISSUED FOR APPROVAL 00



PER SITE REQUIREMENT)

DATE

PROOF CHECKED CONSULTANT:

CETEST

CE TESTING

Company Pvt. Ltd

AUTHORISED SIGNATORY DATE DESIGN DIRECTOR

ESIGN CONSULTANT:

A=COM

Four Laning of NH-37 from Rangagara

to Kaliabor Tiniali (CH, 297,000 Km to

CH 315.315 Km) in Nagaon District in

the state of Assam under SARDP-NE,

Phase A on EPC Mode

SIMPLEX INFRASTRUCTURES

CRASH BARRIER DETAIL

(SCALE 1:35)

UTHORITY'S ENGINEER

STUP CONSULTANTS Pvt. Ltd

UTHORISED SIGNATORY

YOLEEZA CONSULTANTS Pvt. Ltd

CLIENT

NATIONAL HIGHWAYS

& INFRASTRUCTURE

DEVELOPMENT

CORPORATION LIMITED

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER UNLESS OTHERWISE STATED.

2. DO NOT SCALE THE DRAWING, ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.

3. REINFORCED AND RETAINED SOIL FILL SHALL BE AS PER FOLLOWING MINIMUM SHEAR STRENGTH AND PHYSICAL PROPERTIES.

REINFORCED EARTH® FILL PROPERTIES

RETAINED BACKFILL PROPERTIES

A. REINFORCED EARTH® FILL Ø1≥ 34°

B. RETAINED EARTH FILL Ø2 ≥ 34° $2 \text{max} \leq 20.0 \text{ KN/m}^3$

4. MAXIMUM PARTICLE SIZE = 100MM.

5. IF SUPPLY OF MOULDS IS DONE BY M/S TERRE ARMEE.

IT WILL BE ON RETURNABLE BASIS.

6. SUPPLY OF POLYMERIC STRAPS, LIFTING ANCHOR & EPDM PAD BY TERRE ARMEE.

7 FACING PANEL DESIGNATION:

BASIC STANDARD TYPE - A.B.TA.TB.TC.TD.TE.TF.TG.

TH,TJ,TK,TL,TM,TN,TP,TR,TS 8. CUT (VERTICAL STRAIGHT) - SUFFIX R (RIGHT HAND)

L (LEFT HAND)

9. LEVELING PAD, MASS CONCRETE M-15 GRADE TO BE SMOOTH AND LEVEL TO WITHIN \pm 3MM OF THE LEVELS SHOWN ON DRAWING.

10. ALL FACING PANELS ARE 160MM THICK (NOMINAL), M-35 GRADE CONCRETE.

11. POLYMERIC STRAPS REINFORCEMENT SHALL BE AS PER TECHNICAL SPECIFICATION MENTIONED ELSE WHERE IN THE DETAILED DESIGN REPORT.

12. FRL'S AND FOUNDING RL'S TO BE RE-VERIFIED AT SITE.

13. END CUT PANELS/SLIP JOINTS/JOINTS MAY VARY AS PER ACTUAL SITE CONDITION.

14. FOR CONSTRUCTION SEQUENCE, REFER TO CONSTRUCTION GUIDELINES DOCUMENT.

15. ANY UNSUITABLE SOIL BELOW TerroWall SHALL BE REPLACED WITH SELECTED FARTH FILL BEFORE START OF CONSTRUCTION.

16. THESE DRAWINGS ARE PREPARED BASED ON SERVICE ROAD LEVELS AND OGL PAD TOP LEVELS SHOULD BE ALWAYS BELOW 1M. FROM SRL's / OGL.

17. ADEQUATE BEARING CAPACITY SHALL BE ENSURED BY THE MAIN CONTRACTOR BEFORE START OF Terrawall ERECTION.

18. NO EXCAVATION SHALL BE DONE ADJOINING THE TerroWall DURING THE DESIGN LIFE OF THE STRUCTURE

19. THE BATTER 1 IN 40 (1 HORIZONTAL AND 40 VERTICAL) AS MENTIONED IN DRAWING MAY VARY FROM 1 IN 40 (SLOPE) TO VERTICAL DEPENDING ON SITE CONDITIONS AND TYPE OF FILL SOIL TO BE USED AND THIS SHALL NOT BE CONSIDERED AS THE FINAL BATTER.

20. ALL THE EXCAVATED GROUND BELOW TerraWall APPROACH SHALL BE BACKFILLED IN LAYERS (MAX. THICKNESS OF ONE LAYER SHALL BE 200MM.) WITH WELL GRADED GRAVEL (COMPACTED TO 90% RELATIVE DENSITY) DIMENSION DETAIL OF BACKFILLED GRAVEL MAY VARY AS PER SITE CONDITIONS.

	POLYMERIC STR	RAP REINFORC	EMENT SPEC	IFICATION					
Properties	Test Method	Unit	Minimum average roll value						
Ultimate Tensile Strength	ASTM D6637	kN	25	37.5	50				
Width		mm	49	49	49				

REFERENCES:

DRAWING IS PREPARED ON THE BASIS OF FOLLOWING CLIENT DRG. NO.

FRLs, OGLs & SRLs DETAILS ARE TAKEN FROM MS-EXCEL SHEET RECEIVED BY E-MAIL DATED

PLAN & PROFILE DETAILS RECEIVED BY HAND DATED 27.11.2018.

GAD DETAILS ARE TAKEN FROM DRG, NO. AECOM-DELD15159-DD-DWG-FO-314+992-GAD-01, REV. R1 DATED 10.08.2018 RECEIVED BY E-MAIL DATED 05.06.2019.

ABUTMENT & ABUTMENT STRUCTURE DETAILS ARE TAKEN FROM DRG. NO. AECOM-DELD15159-DD-DWG-FO-314+747-SUB-01, REV. R1 DATED 29.08.2018 RECEIVED BY E-MAIL DATED 05.06.2019.

UTILITY DETAILS ARE TAKEN FROM DRG. NO. SIL-DD-DWG-PC-315+240/01 RECEIVED BY E-MAIL DATED 12.06.2019.

CROSS SECTIONAL DETAILS ARE TAKEN FROM DRG. NO. AECOM-DELD15159-DD-DWG-TCS-005, REV. R2 DATED JULY' 2018 RECEIVED BY HAND DATED 27.11.2018.

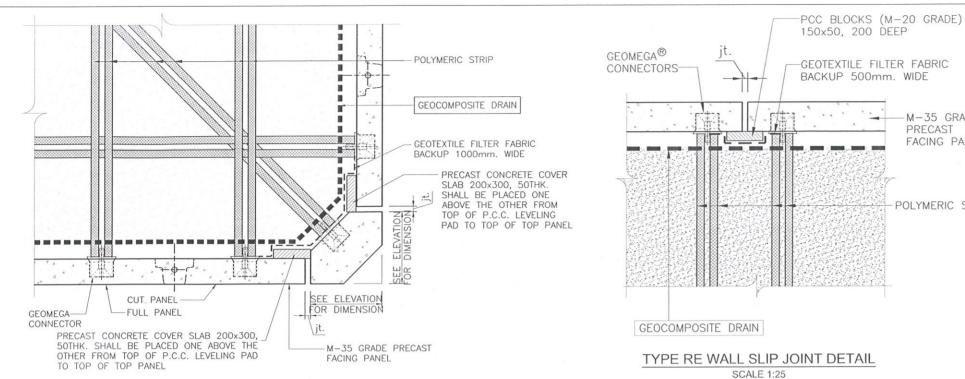
CRASH BARRIER & FRICTION SLAB DETAILS ARE AS PER SIMPLEX INFRA'S STANDARDS.
CONFIRMATION ON PRELIMINARY DRAWING RECEIVED BY EMAIL DATED 09/11/2020

PCC LEVELING PAD TOP LEVEL HAVE BEEN MODIFIED FROM CLIENT'S END BY EMAIL DATED

ETS SAVE THE ALL SMALL CUT PIECES OF SOIL REINFORCING ELEMENT WHICH CONTRIBUTES TO WASTAGE SHALL SUITABLY BE PLACED IN DIFFERENT LAYERS EITHER IN REINFORCED OR IN RETAINED ZONE. NONE OF THE PIECES SHALL BE DISPOSED OR LEFT IN A MANNER THAT MAY LEAD TO LAND CONTAMINATION AND SOLID WASTE GENERATION.

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		NOTICE (OF ENGINEE	R-IN-CHARGE	& THIS OFFI	CE.					
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	PREPAR	ED BY:-			SCALE:-	STRUCTURE:- FLYOVER AT CH. 314+992					
	250	Reine		INDIA PVT. LTD. OPPOSITE NTPC BADARPUR).	AS SHOWN	TITLE:-CROSS SECTION, CRASH BARRIER, CORNER DETAIL					
S LTD	TERRE AF	mee MOHAN I MATHUR Tet +91	CO-OPERATIVE INDUS A ROAD, NEW DELHI-1 11 46457600-7601, F+9	TRIAL ESTATE, 19044	DATE:- 30/11/2020		TYP. LEVELING PAD, GENERAL NOTES & MISC.				
		INITIAL:-	earmeeindia.com FINAL:-		SHEET NO .:-	DRG NO.:- TAInd-E/19759/FLY/314+992/DET-01 RI					
	SG	SDG	KS KED BY	AA APPROVED BY	01/03	DRAWING STATUS:- ISSUED FOR APPROVAL 00					



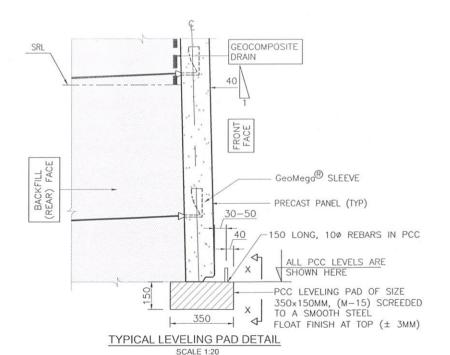
160THK RE PANEL POLYMERIC GEOCOMPOSITE DRAIN TerraTee[™]-FACING PANELS REINFORCED FILL FILLER PIPE CULVERT CASING

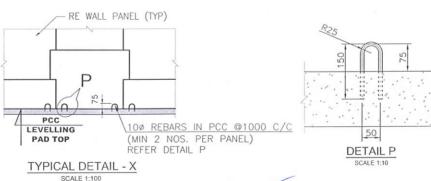
TYPICAL DETAIL 'D'

SCALE 1:20 (MARKED IN DRG. NO. TAInd-E/19759/FLY/314+992/GA-03 & GA-04) (SHEET NO. 01 OF 06 / 01 OF 06)

TYPE 15 CORNER UNIT DETAIL (DETAIL-A)

SCALE 1:25 (MARKED IN DRG. NO. TAInd-E/19759/FLY/314+992/PLAN-01)







-M-35 GRADE

FACING PANEL

POLYMERIC STRIP

PRECAST



ABBREVIATION:-

ADDITL VI	AI	101v
Ç	=	CENTER LINE
	=	CHAINAGE
CONTD.	=	CONTINUED
FRL.	=	FINISH ROAD LEVEL
SRL.	=	SERVICE ROAD LEVEL
OGL.	=	ORIGINAL GROUND LEVEL
RHS	=	RIGHT HAND SIDE
LHS	=	LEFT HAND SIDE
DRG.	=	DRAWING
DS.	=	DRAWING DESIGN SECTION EXPANSION BEARING
EXP.	=	EXPANSION
BRG	=	BEARING
ETC.	=	ETCETERA
C/C	=	CENTER TO CENTER
FDN LVL.	=	FOUNDATION LEVEL
jt.	=	JOINT
kN.	=	KILO NEWTON
m.	=	METER
		MILIMETERS
MKD.	=	MARKED
MIN.		
		MAXIMUM
MISC.	=	MISCELLANEOUS
NTS.	=	NOT TO SCALE
		OVER ALL
PCC.	=	PLAIN CEMENT CONCRETE REINFORCED EARTH
RCC	=	REINFORCED CEMENT CONCRETE
R\F.	=	REINFORCEMENT
THK		
TYP.	=	TYPICAL
PCL	=	PROJECT CENTER LINE
FLY	=	FLYOVER
PC	=	PIPE CULVERT
NTIAL TO	_	

PROOF CHECKED CONSULTANT: CE TESTING Company Pvt. Ltd

ESIGN CONSULTANT: **A**ECOM

Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.

EPC CONTRACTOR: SIMPLEX INFRASTRUCTURES LTD

THIS DRAWING CONTAINS INFORMATION PROPRIETARY AND CONFIDENTIAL TO W_jS REPRODUCE EARTH BOLA PYT. LTD. POSSESSION OF THIS DRAWING HEIDER AUTHORIZE USE OF THE BROWNING CONTAINED THERERS HOW COPYING OF THE DRAWING IN WINGLE OR IN PAGT, NOT TRUNKINGSION OF THE GRAWING OR OF THE INFORMATION CONTAINED THEREIN TO PERSONS HOT C O. N. H. & C. T. E. D. W. I. T. H. T. H. & P. R. O. J. & C. T. Revisions STRUCTURE:- FLYOVER AT CH. 314+992 REIDFORCED EARTH IDDIA PVT. LTD. AS SHOWN TITLE:-CROSS SECTION, CRASH BARRIER, CORNER DETAIL TYP. LEVELING PAD, GENERAL NOTES & MISC, DETAIL 30/11/2020 PRG NO.:- TAInd-E/19759/FLY/314+992/DET-01 REV. CHECKED BY HEET NO .:-DRAWING STATUS:- ISSUED FOR APPROVAL 02/03

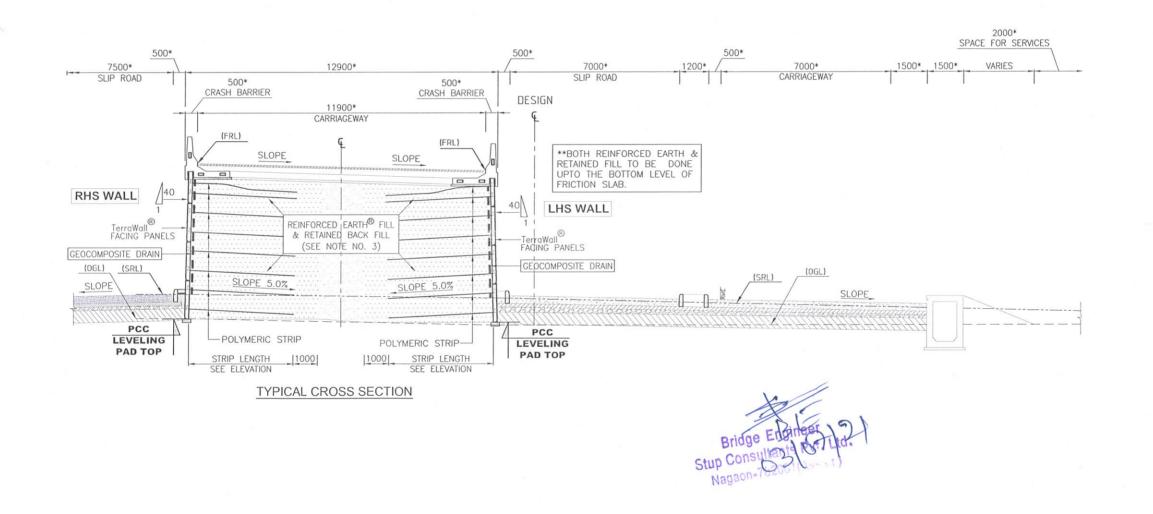
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AUTHORITY'S ENGINEER:-STUP CONSULTANTS Pvt. Ltd

YOLEEZA CONSULTANTS Pvt. Ltd

DATE AUTHORISED SIGNATORY DATE DESIGN DIRECTOR







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Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.

EPC CONTRACTOR:-
SIMPLEX INFRASTRUCTURES LTD - 27, SHAKESPEARE SARANI, KOLKATA-17, INDIA

	M/S REINFORM	CED EAR	TH INDIA	PVT. LTD. POSSESS HEREIN NOR COPY	SION OF THIS DRAWING NET ING OF THE DRAWING IN Y FORMATION CONTAINED THE	THER AUTHORIZE USE OF WHOLE OR IN PART, NOR	Rev.	Date	Description on Rev	visions		
	PREPAR	ED BY	T E	D WIT	H THE P	SCALE:-	STRUCTURE:- FLYOVER AT CH. 314+992					
	CUL		Reinf		INDIA PVT. LTD.	AS SHOWN	TITLE:-CROSS SECTION, CRASH BARRIER, CORNER DETAIL					
	Terre As	mee	MOHAN C MATHURA Tet +91 11	D-OPERATIVE INDUS ROAD, NEW DELHI-1 46457600-7601, F +9	TRIAL ESTATE, 10044	DATE:- 30/11/2020		TYP. LEVELING PAD, GENERAL NOTES & MI				
		INITIAL:-			AA	SHEET NO.:-	DRG N	nd-E/19759/FLY/314+992/DET-01	REV.			
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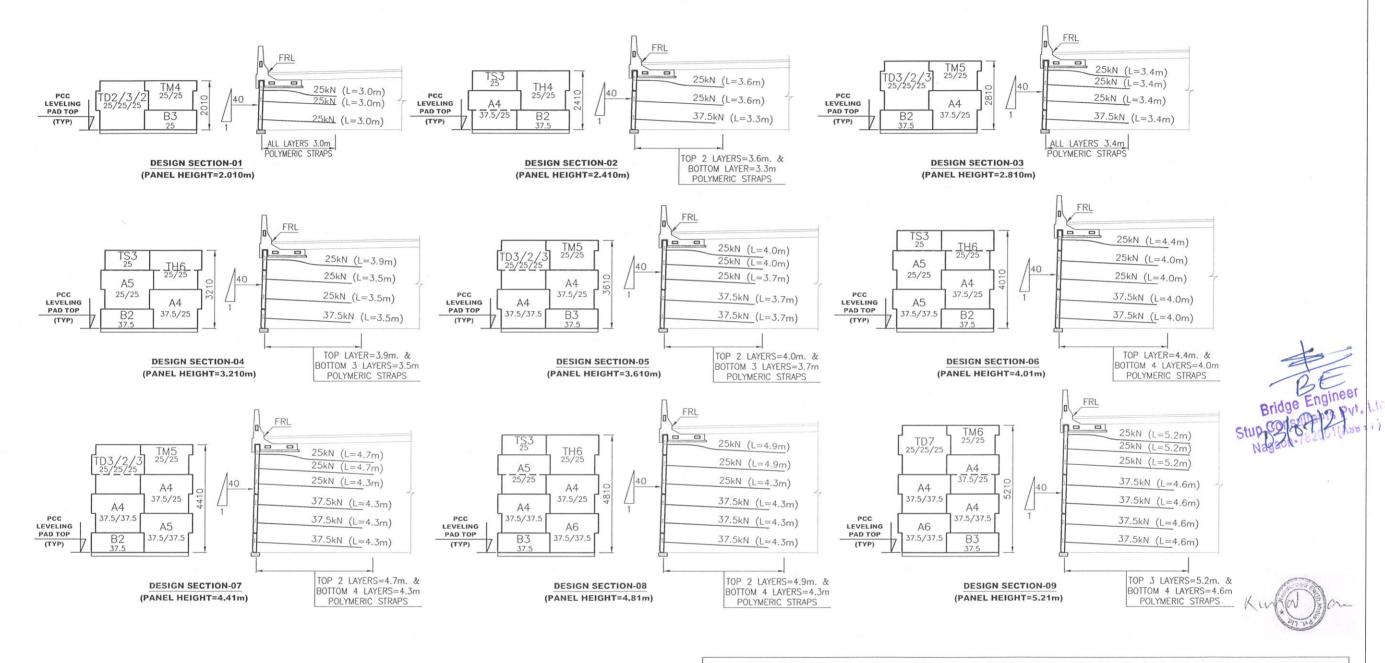
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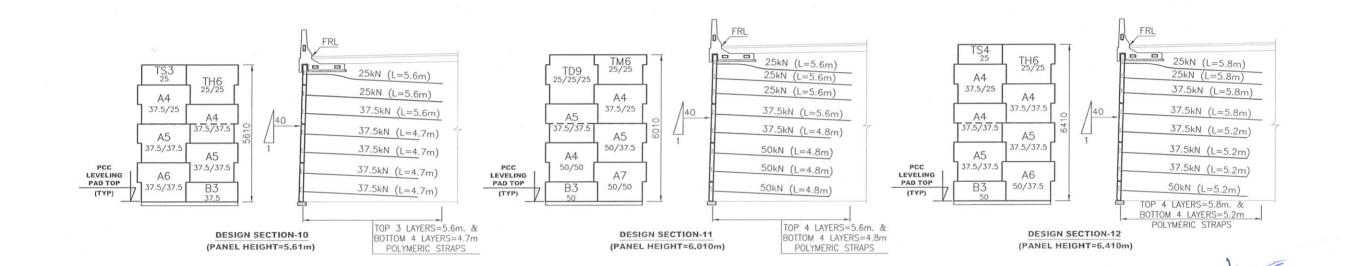
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Four Laning of NH-37 from Rangagara to Kaliabor Tiniali (CH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NE, Phase A on EPC Mode.



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SAFETY RULES FOR HOUSE KEEPING OF CASTING AREA DO & DON'T

DO

DONT



i). PEDESTALS OF GOOD QUALITY ii). OPEN AND CLEAR AREA IN CASTING

(FIGURE 1) b i). POOR QUALITY PEDESTALSii). IMPROPER UPKEEP OF ASSETS

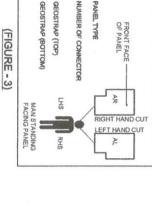
SAFETY RULES FOR MOULDS DO & DON'T DONT



(FIGURE 2)

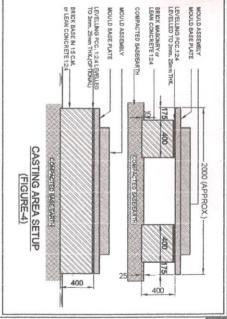
b). CONCRETE STICKED MOULD

a). PROPERLY OILED MOULD



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PREFACE: THIS CONSTRUCTION AND CUMUTY CONTROL PROCEDURE MANUAL HAS ERRO REPRAND AS A PLAIGE IN
REPRESENTATION OF TERRITIZE REPRESENTATION OF THE PROCEDURES. THE CONTROL SHOULD BE THAT
REPRESENTATION PROPERTY OF THE PROCEDURES THE CONTROL SHOULD BE THAT
CONTROL TO THE DELEVAN OF CREEKY OF THE PROCEDURES HAVE AND THE CONTROL THE CONTROL THE CONTROL THE CONTROL THE PROCEDURES HAVE AND TH S PICKING OF THE CONCRETE ON THE MOULD SHOULD BE AVOIDED BY APPLYING THE FORMMORK OIL, ON THE OUTER SURFACE OF THE MOULDS. HANDLING OF MOULD, WEIGHT & LIFTING.





ASAFETY RULES FOR HOUSE KEEPING OF CASTING AREA :- (Fig.1) KEEP THE WORK AREA FREE OF CLUTTER AND DEBRIS THAT COULD CAUSE AN INJURY OR ACCIDENT.

236

2. REJECTED/SCRAP MATERIAL TO BE KEPT AT A DESIGNATED PLACE MARKED AS "SCRAP".

"SCRAP".

"MATER STAGNATION SHALL BE AVOIDED BY PROPER DRAININGE ARRANGEMENT.

TO AVOID BREEDING OF MOSQUITOS.

4. REMOVE WASTE CONCRETE REGULARLY FROM THE AREA AROUND PEDESTALS.

ASAFETY RULES FOR MOULDS :- (Fig. 2)

KEEP THE MOULDS COMPLETELY RESTED ON THE SPECIFIED SIZE PEDESTA

INTRODUCTION:- (Fig. 3)

STAUDARD OR PULL-MEDRT "AF PARIEL DE SIZE 18M X 20M (N-MERE 18 IS THE NOMINAL REGART AND CHAFE 2.0M is "HE CO ENTANCE BETWEEN CHAFE IN IN AND CHAFFE AND CHAFE AND CHAFE AND THE MALL EACH PARIEL IS REFERRED BY A LETTER WHICH INDOCATES THE TYPE OF PARIEL IAD NUMBER, WHICH MOINCATES THE THE WHICH INDOCATES THE TYPE OF PARIEL IAD NUMBER, WHICH MOINCATES THE THE WHICH INDOCATES THE TYPE OF PARIEL IAD NUMBER, WHICH HORIZOHTALMENTTAL DIMENSION IS REPORTED FOR THIS PURPORE HORIZOHTALMENTAL DIMENSION IS REPORTED FOR THIS PURPORE HER EXISTS FOR REPORT Y TYPE OF ANIEL TO DETRIMINE IN A VARIEL IS REPORTED. SHOTHER EXISTS FOR REPORT Y TYPE OF ANIEL TO DETRIMINE HE A PARIEL THE HORIZOHTAL DIMENSION IS GAMEN BY THE LAST FIRME OF THE PARIEL THE HORIZOHTAL DIMENSION IS GAMEN BY THE LAST FORMED THE PARIEL TO THE MARIEL TO THE PARIEL TO THE PARIEL CONTINUOUS SUPPORT TEAM MAINTAIN AND WE SHALL SO TO PRODUCE SHAT MANUS FROM MUNICIPAL SHAPE TO PROBLE THE MANUS SHAPE TO PROBLE THE MANUS SHAPE TO PROBLE SHAT MANUS SHAPE TO PROBL

SETTING UP OF CASTING YARD:- (Fig. 4)

THE FOLLOWING FACILITIES SHALL BE SET UP IN ORDER TO IMPLEMENT THE CÁSTIN OF THE PANELS IN THE MOST EFFICIENT WAY, AS WELL AS TO PROVIDE THE BEY POSSIBLE QUALITY OF WORK:

CASTING AREA :- (Fig. 5)

CONTING VARIO SHOULD NOT BE LOCATED IN AREA WHERE BASINS OR LOW LAND COULD GIVE RISE TO PROMISS OF WATER IN ARMY ESACUR. IN THE CASTINGS ARE PRECAUTIONS ARE TO BE TAKEN UP TO PRESENT CASTED UNITS PROMISSTREAM SPORTAMENTS FROM SETTING PROMISSTREAM SAUGHT ETC. A COMCRETE BRICK O SIMILAR HARD FLOOK WITH FEDDERSTLAS ASSURES THAT THE BASE PLATES OF THE MOULDS ARE HORIZOWALL, PROVIDING FRAM SUPPORT TO BEAR THE REPEATE CASTING STRESSES, SUPPORT PROSETAL BEAM OF MINIMARY OR WITH SETTING STRESSES, SUPPORT PROSETAL BEAM OF MINIMARY OR WITH SETTING SUPPORT THE BASE PLATES OF THE MOULDS, THEIR PURPOSE IS TO PREVENT THE BASE PLATES OF THE MOULDS.

CURING AREA :-

AFTER CURNO ON THE BASE PLATE OF THE MOULD. THE PANELS SHALL B TRANSPORTED TO THE CURNOS AREA WHERE THEY SHALL BE KEFF POR 14 DAY MANUMA IN THE CURNOS AREA WHERE THEY SHALL BE KEFF POR 14 DAY MANUMA IN THE CURNOS AREA SHOWN BU LARVOUT PLAN OF THE PRECASINI WHEN AND THE MANUMA IN THE CURNOS AND THE PRECASINI WHEN AND THE MANUMA IN THE PLANSPORT OF THE PRECASINI WHEN AND THE MANUMA IN THE MANUMA PLANSPORT BY THE SHOULD BE PROVISION TO RECYCLE THE CURNOS WHITE AS SUGGESTED IN THE CASTINA YAR PROVISION TO RECYCLE THE CURNOS SHALL BE ALCOSON OF THE PRECASINI WHEN AND THE CASTINA YAR AND THE MANUEL BE PLANSED WHITE PROVISION AND THE SHALES HAVE BY ALLO BE PLANSED WHITE THE CONTROL OF THE WOOD WITH THE PLANSED WITH THE DAILY REQUIRED TO PREVIOUS AND THE PRANTE BY SHALL BE REQUIRED TO THE THE CASTINA ARE SHALL BE ADMITTANT OF THE PROVISION OF THE PROVISION AND THE CONTROL THE PROVISION AND THE PROVISION AND



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Four Laning of NH-37 from Rangagara to Kahlabor TinialijCH. 297.000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EPC Mode.

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SAFETY RULES FOR STORAGE/HANDLING OF MATERIAL 00 DO & DON'T DON'T



a). PROPERLY STORED MATERIAL



b). POOR STORE KEEPING

(FIGURE 6)



DONT

DO



a). PROPER PLUGS AND INSULATED WIRES TO BE USED



b). OPEN WIRES AND POOR INSTALLATION



0 SECURE WIRES IN CONDUITS UNDER ADEQUATE INSULATION AND V AND TEAR PROTECTION



0 OPEN WIRES OVER COMMUTING PASSAGE PRONE TO HIGH WEAR AND TEAR AND HAZARD DURING MONSOON / WATERLOGGING.

(FIGURE 7)



B.CONNECTION :-

CONCRETE/REBARS SHOULD BE IN COMPLIANCE TO THE CONTRACT & SPECIFICATION & AS PER APPROVED PANEL REINFORCEMENT DRAWINGS.

A.CONCRETE & REBARS :-1. MATERIAL :-

CASTING OF FACIA PANELS:-

ARRANGING MOULDS SHUTTERS (FIGURE - 9)



B. INSPECTION OF MOULDS :- (Fig. 10)

HORIZONTAL LEVEL OF MOULD BASE PLATE & DIMENSIONS OF ASSEMBLES MOULDS WILL BE CHECKED NITIALLY BEFORE START OF CASTING-AND WILL BE RECHECKED ON A WEEKLYMONTHLY BASIS OR IF VISUALLY FOUND TO DEFEOTIVE. CORRECTIVE MEASURE SHALL BE TAKEN IF ANY VISIBLE WEEKNEAGE IS NOTICED, WHICH MAY AFFECT THE CASTING PROCESS OR THE CUALITYOF IS NOTICED, WHICH MAY AFFECT THE CASTING PROCESS OR THE CUALITY.

VOTICED, WHICH MAY AFFECT THE CASTING PROCESS OR THE QUALITY OF STED PANELS THEN SAME MUST BE COMMUNICATED FOR NECESSARY

A. FIXING OF MOULDS :- (Fig. 9)

TO FX THE SHITTERS TO THE BASE PLATE, THE FOLLOWING PROCEDURE MUST BE FOLLOWED:

PLACE THE TID: SOTTOM AND SIDE SHUTTER ON THETABLE, WITHOUT FRING, PLACE THE CORNER SHUTTERS,

FIR THE SHUTTER TO THE BASE PLATE.

FIX THE SHUTTER TO THE BASE PLATE.

FIX THE SHUTTERS IS USED, ASSUBE THAT ITS POSITION IS CORRECT. TO DISMANTLE. THE MOULD, FOLLOW THE STEPS FROM M (DISMANTLE...) TO I PREMATE.

FIGURE - 10)



TYPES OF CONNECTORS

STORAGE AREA :-

THE WIRES SHOULD BE INSPECTED BEFORE USE.

E SHALL BE TAKEN IN HANDLING NEEDLE/ELECTRICAL PLACED ON DRYGROUND.

S SHOULD BE SECURED BY LAYING THEM UNDERGROUND IN OR INSTALLING THEM ON POLES OF SUFFICIENT HEIGHT, LEQUIPMENTS SHOULD BE CHECKED PERIODICALLY FOR EQUIPMENT, JUNCTION BOXES ETC. SHOULD BE KEPT !

(FIGURE 8)

I. THE GEOSYNTHETIC MATERIAL SINCLUDING DEC STRAP, NOM-MOZH MEDTETTE AND DESCONATIONET TERM, A DOMETIC AS OFFICE AND DESCONATIONET THE REPORT OF THE MEDICAL CONNECTOR RUBBER PACKING SMALL STROMED TO PROTECT THE MACHINET DESCONATIONES AND ADDRESS TO PROTECT THE MACHINET DESCONATIONES AND ADDRESS TO PROTECT AND THE MEDICAL STROMED AND ADDRESS AND DESCONATIONATION AREAS WITH MARKINGS.

4. DESCRIPAGES, COLU. REIN-PORCEMENT, DAMEL LEE STACKED AS DESCRIPAGES AND DESTANDED AS DESCRIPAGES AND DESCRIPAGES AND

2, USE OF MOULDS :-

THE PRODUCTION OF PANIES IS BASED ON ONE SHIFT PER DAY, EACH MADIL HAS ONE BASET PART THAN DA SETT OF SHIFTER PART BASED AND THAN DAY BASED AND THAN DAY BASED AND SHIFTER. IT IS IMPORTANT NOT TO SUBSTITUTE AN SHIFTER, AT THEY MAKET REAMN, HATTERAN, ATTHE THAN PROPERTIES MASE PANIES AND THE LAWROUGH OF THE MOULDS MAST DAY BASED AND THE CHARLES HAS THE CHARLES HAS FEATER. IN SECOND THE MOULD MAST BASED AND THE SHOULDS HOT PAN AND THAN SHOULD HAVE AND THE SHOULDS HOT PAN AND SANGOT THE SHUTTERS, AS IT WOULD RESULT IN PERMANBENT DANAGE IN THE CHARLES, AS IT WOULD RESULT IN PERMANBENT DANAGE IN THE CHARLES.

C.TYPE OF CONNECTOR :- (Fig. 8)

GEOMEGA CONNECTORS - GEOMEGA CONNECTORS (DIBENSION AS SHOWN IP PAMEL ID CONNECTOR METAL PAME TO CONNECT TO YAMER RESTORMENT METAL HAS THE VIMIT PAME IN CONNECT TO YAMER RESTORMENT PAME IN CONNECT TO YAMER RESTORMENT PAME IN CONNECTOR ON ITS TOP SIDE THESE ARE LUSED TO LIFT AT THE TIME DE RESCIPTOR.

THERE ARE TOTAL THREE TYPES OF GEOMEGA CONNECTION HAVING DIFFERENT COLOUR RODGE (BACK) GREY 479 BESTON 49) THE TYPES OF CONNECTION TO BUSEN USED DEPENDS ON DESIGN AND HEIGHT OF STRUCTURE PLEASE REPER RESPECTIVE CONSTRUCTION DRAWNINGS FOR THE TYPE OF CONNECTOR TO BUSEN USED TOR CALETING.

SHUTTER ENABLED MOULDS ON PEDESTAL BEAMS



Four Laning of NH-37 from Rangagara to Kaliabor Tiniali(CH. 297,000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EPC Mode.

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ORCED BARTH BIDIA PVT, UTD. STUP Consultants Pvt. Ltd. 1:150 11.06.2019 Resident - CONSTRUCTION METHODOLOGY & SAFETY RULES TAIND /TT/GEOMEGA/CN Teenson

MANDATORY P.P.E. SAFETY RULES FOR CONCRETING



LIFTING ANCHOR WITH C.I. CUP

(FIGURE - 11)

CASTING OF PANELS DURING CONCRETE
RUBBER HAND GLOVES MANDATORY TO WEAR

TWO LETING ANCHOES WITH THEIR RUBBER RINGS, ARE PLACED. THESE RUBB BRIGGS CAN BE USED SCERMA. THESE AND THEREFORE SHALL BE COLLECT! BEFORE REMOVING THE RANGE. PROWINE TABLE. THE GENERAL CONNECTOR IN REQUIRED NUMBERS AS SHOWN IN PAN PANAMICS, AND THAILST SUSHIET THAIT THE GENERAL SEED SHOULD BE 391 OUT SIDE FROM CONCRETE SURFACE. THE SHOP OF THE PROPERTY OF THE THE PROPERTY OF THE THE PRACE. THE SHOP OF THE THE PRACE OF THE PROPERTY OF THE THE PROPERTY OF THE THE PRACE.

PLACING OF THE PANEL ACCESSORIES: (Fig. 12)

B. INSTALLATION OF LIFTING ANCHOR:

1. ENSURE THE GUP IS PREDMANAMELE ON THE TOP SHUTTER.

2. THE SITTING AREA OF CUP IS PREEFER HON CONVETE:

2. THE SITING AREA OF CUP IS PREEFER HON CONVETE:

3. THE RUBBER BUSH 198M NOT TO BE CUT IN TO 2 PREEFE BUT SHITED ALDNOW

THE LINGTH AND PUT ON THE LIFTON AND SHOULD BE
CONFLICTED BUT AT ITS HEAD. AS SHOWN IN THE PHOTOCORAPH.

4. PUSH LIFTING ANCHOR HEAD MOTO CUP SERT COMPLITED.

5. THE URBANDR NOZIZE SHOULD NOT BE KEFT NEAR TO LIFTING ANCHOR SC

THE LIFTING ANCHOR POSITION SHOT DESTRUBED.

6. ENSURE THE CLUTCHING CINCHOLOGISH OF TA DISENDAGEMENT) IS FREE WITHOUT

A SAFETY RULES FOR CONGRETING:- (Fig. 11)

WEAR ALKALARBISHANT GLOVES, COVERALS WITH LONG SLEEVES AN ELLE-BIOLITHANTS, WATER-BOOT BOOTS AND REF PROTECTION.

FILL-BIOLITHANTS, WATER-BOOT BOOTS AND REF PROTECTION CEMBYT DUS THEY COME INTO CONTACT WITH CEMBYT DUS AND CONTACT WITH CEMBYT DUS THEY COME IN AN EXAMPLE? TO WATER TO WATER FOR MAJOR SKIN DAMAGE.

4. EAT AND DRINK ONLY IN DUST-FREE AREAS TO AVOID NOBSTING CEMBYT DUST.

A. PREPARATION :-

PRICH TO CASTING, THE GASE & SIDES ARE CLEAVED SO THAT THERE IS NO UNIST CONCRETE WASTE ON THE GASE SUFFINE ON BASE STATES WILL BE DOZIE & SAID WHEN REQUIRED WHICH WILL BE DECIDED BY RECASE BIGNEE AT CASTING YARD, MIQUIDS ARE OILED WITH APPROVED CUALITY FOR MINOR OIL AND EXCESS OIL IS TO BE REMOVED.

(FIGURE - 13)







PLACING OF REINFORCEMENT & GEOMEGA CONNECTORS

(FIGURE - 12)

TYPICAL STACKING IN CURING AREA

(FIGURE - 14)



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POURING THE CONCRETE :- (Fig. 13)

CURING:- (Fig. 14)

THE WINTER CURNING SHALL STAFF AS ECON AS THE CONCRETE STARTS TO DR
A CURRING CHAPOUND IN HORSESSAY MAY BE SENDE ON CORRECT WITH DAR
TARROLLIN JUST HATER CACTING IN AGE OF VIEW HOT TOURS HATCH.

WAY KEEP CONCRED IN LIBERS WAY BE SEND THE WINDERS HACED A
A DISTANCE MAN IN MUNISERS TO JOINE ON STRAKE TO THE WINTER OF
CURED. SPERMLING CURNING STACKS MAY BE CURED WINDERS HACED A
A DISTANCE MAN IN MUNISERS TO JOINE PROPER CORRACE TO THE WINTER OF
PREMILIES SPERIT. THE PARIES SHALL TO AN EMPOYER HARE SEND.

THE PARIES SHOWN FACE FACE AND HORSE THE WINTER HARE SEND.

WINDERS HACKS TO WARK THE PARIES TO BE USED AS SERVARYOR BUT AN
BESTERS TO MAN THE PARIES TO BE USED AS SERVARYOR BUT AND
BESTERS TO MAN THAN A WET A THOOSPHERE AROUND THE PARIES ALL ALDN

THE CHIMNO SEND. WARE THAN A WET A THOOSPHERE AROUND THE PARIES ALL ALDN

THE CHIMNO SEND.



Description on the second of t



STEP 1. CROSS THE PACKING STRIP THROUGH THE INSERTION SLING



STEP 2. AND PULL OUT FROM THE OTHER OPENING HOLDING THE INSERTION INSERT THE PACKING STRIP IN SLING ONE OPENING OF OMEGA SLEEVE





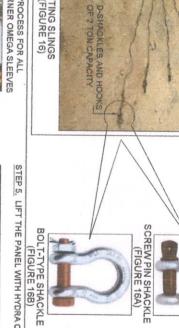
(FIGURE 16)



STEP 4. CROSS THE LIFTING HOOKS THROUGH CORNER SLINGS PROCESS INSERTION SLING BOTH FOR CLOSED AND REPEAT THE ALL ENDS EXTREME 유



LIFTING SEQUENCE (FIGURE 17)



STEP 5. LIFT THE PANEL WITH HYDRA CRANE

16 17 18

15 14

50 60







OMEGA SLEEVE PANEL LIFTING ARRANGEMENT SEQUENCE

SAFETY CAUTION :-

- LIFTING OPERATIONS WILL BE UNDER THE CONTROL OF AN APPOINTED PERSON
- CRANE WILL BE POSITIONED ON FIRM CROUND WITH STABILIZERS EXTENDED

- NO PERSON WILL ENTER THE CRANE OPERATING AREA WITHOUT PERMISSION. LOAD WILL NOT BE SWUNG OVER PERSONNEL.
- INTS WILL BE SELECTED CONSIDERING THE WEIGHT AND

- USED ON LARGE LOADS TO GUIDE THE STEADY LIFT.
- NICATION, OR THE SYSTEM OF HAND SIGNALS WILL
- FTING OPERATIONS WILL BE UNDER THE CONTROL RIVER AND THE SLINGERS/BANKSWAN.

 WALL BE FUNCTIONING CORRECTLY AT ALL TIMES
- RAMED BANKSWEWSLINGERS WILL BE AVAILABLE THIN THE ARC OF OPERATIONS WILL BE CLEARED MEL WILL NOT BE ALLOWED TO STAND

2 2

- T SUPERVISORS WILL BE TRAINED TO THE SAME IN ADDITION.
 IT THE MOVEMENT OF CRANE AND HEAVY MACHINES WILL BE DOME IPMENT USED WILL BE IN DATE FOR SERVICING
- WEAR SAFETY SHOES, HAT AND JACKET, HAND GLOVES ETC. THE SLING MAY HAVE SNAPPED WIRE OR STRAND, WHICH COULD PRICK. REVERSE BEEP OF CRANE AND MACHINES SHOULD WORK PROPERLY
- HYDRA BOOM TO BE IN OFFSET POSITION FROM THE WORKER CHECK SLINGS FOR WEAR AND TEAR ON DAILY BASIS (MP).

19 20

EQUIPMENT I ACCESSORIES REQUIRED

- 1. HYDRA CRANE. (ONE)
 2. OMEGA INSERTION SLINGS (FOUR)
 3. LIFTING SLINGS (TWO)
 4. PACKING STRAP
- 5. D-SHACKLES AND HOOKS
- SLING DIAMETER OVERLAP CUTTING LENGTH OMEGA INSERTION SLINGS: - (Fig. 15)
- 2500 MM 05 MM
- 100 MM 25-30 DAYS WHILE LIFTING 10 PANELS PER DAY
- 08 MM 45-50 DAYS WHILE LIFTING 55-60 PANELS PER DAY

LIFE SPAN SLING DIAMETER











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LIFE SPAN

ONE LEG LENGTH LIFTING SLINGS:- (Fig. 16)

4000 MM 2000 MM



DO

SAFETY RULES FOR TRANSPORTATION

DO & DON'T

DONT

NOTE: USE OF FOUR POINT SLING IS MANDATORY TO AVOID DIAGONAL CRACKING) LIFTING OF PANELS (FIGURE - 18)



CORRECT TRANSPORTATION PROCEDURE WITH ADEQUATE SAFETY HARNESS



(FIGURE - 19)







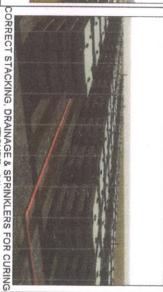
STACKING AT STACKING YARD

(FIGURE - 20)

STACKING OF PANELS

WOODEN SLEEPER/DUNNAGE 1200×150× 100 (MIN.-2 NOS.) OR CONCRETE CUBE WOODEN CUBE SOmm HIGH & 100mm SQUARE AT EVERY CORNER REINFORCED EARTH PANEL GEOMEGA CONNECTORS





KEEP A NOMINAL GAP BETWEEN TWO
STACKS OF PANELS SO THAT CURING
PERSON CAN MOVE EASILY WITH WATER
HOSE PIPE RATHER CLIMBNOUP ON THE
STACKED PANELS (FIGURE - 21)







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MINNULING PANEL OMFEL 1.

1. EXPOSIME TO CEMENT CONCRETE DUST CAN BRITATE EYES, NOCE THROAT AND THE UPPER RESPIRATION YOU THEN YOUTHER BERSHATON YOU THEY YETTER SIAN COMPACT MAY RESULT MAY MODERATE BRITATION TO THEYESIANOCRACISMO OF SIAN TO SENERE SIAN DAMAGE FROM CHIBIRAL BURNIS, BLUCH EXPOSURE CAN LEAD TO LUNG MAJORES MICLUMOS GLICCHES AND LUNG CANCERS.

BLOCKS BETWEEN PANELS SHALL HAVE PLAN

NETHOD SHALL BE ADOPTED (REFER FIG. 18). ALL BE MAINTAIN DURING LIFTING AND TRANSPORTATION. BE FATA:

HANDLING OF FACIA PANELS: - (Fig. 18)

DE-MOULDING :-

SIDE SHUTTER WILL BE REMOVED AFTER 67 HOURS (MAY BE EXTENDED DURING WINTER CONDITIONS) AND THE PANELS WILL BE LIFTED FROM THE BASE PLATE AFTER 20 HOURS OR ATTAINING OF CUBE STRENGTH OF MINIMUM 10 MPA.

REMOVAL OF THE PANEL FROM THE BASE PLATE :-

THE PARE. SHALL BE LIFTED BY MEAN OF A FOUR POINTS SUND USING AN APPROPRIATE CAPACITY OF SHEAD OF ANTI-YEAR CAPACITY OF SHEAD OF ANTI-YEAR CAPACITY OF THE PARES SHALL BE LIFTED INDEPENDENT ONLY MINT OF ANTI-YEAR CONNECTION. TO ANDE ANY POSSELLE DAMAGE OF ANTI-YEAR CAPACITY OF ANTI-YEAR OF A

ASAFETY RULES FOR TRANSPORTATION :- (Fig. 19)

1. OVERALL WORKING CONDITION, FITNESS CERTIFICATE OF THE TRAILER OPERATOR LICENSE SHOULD BE CHECKED PRIOR TO USE IT FOR

TRANSPORTATION.

TREASED ON THE LOAD CLAR TWO CAPACITY OF THE EVENCLE THE PANDLE OF PANDLES OF PANDLES OF PANDLES OF PANDLES OF PANDLES OF PANDLES OF THE STRAKE OF THE PANDLES OF THE STRAKE OF TH

A SAFETY RULES FOR STACKING:

1. THE TRICKS OF PANIEL SHOULD BE PLACED ON A LEVEL AND FRIM GROUND TO AVOID ANY DAMAGE OF RESCRIPCION THE PANIEL SHOULD BE TRICKING.

2. PROPRIE DEBANGE AND RESCRIPCION OF CHEMN OF THE PANIEL SHOULD BE BISINED IN CHEMN AREA TO AVOID ANY WATER STAGNINTON. TACKING AREA:-

ENGLIE ETACANO AREA INVELL COMPACTES TO PRECIENT UNIFOR SETTLEIBENT AND DAMMARES CAURED DURNO TRANSPORTATION. THE DIMENSIONS OF THIS AREA SHALL DETEND UPON THE DALY PRODUCTION OF CONCRETE PANIES, AS WELL AS THE REMOTED BEHAVIOR. SETTLY WALL SECTION PROGRAM IT IS RECOMMENDED THAT WHILE MARRING AN AREA FOCK OF PANIES BASED OF THAT WHILE MARRING OF REMOTED STOCK OF PANIES BASED ON REOM TANAMABILITY FOR ANOIDING SHOPTAGES AT A LATER STAGE. THE STACK THE ST

STACKING OF FACIA PANELS:-

THE STACKS OF PANELS SHALL BE PLACED ON A HORDONTAL COMCRETE SURFACE. THE SHRACE SHALL HAVE BEEN PERDOUSLY COMMONTED THE MANAGEMENT HAVE BEEN PERDOUSLY COMMONTED THE SHALL BE STORED IN A HORD DIS A (FOUR) PANELS IN ONE STACK, PANELS SHALL BE STORED IN A HORDON SHALL BEST PANELS AND SHALL BE RETURNED THEN MODER TO PREVENT THE CONNECTOR FROM HEADS SHALL BE RETURNED ON THE TOP OF WOODEN BLOCKS TO PREVENT SPOTS ON THE FACE OF THE PANELS (OPT). STACKING IN THE CURING AREA :- (Fig. 20 & 21)

STACKING IN THE YARDS :-

THE STACKS OF PANELS MUST BE PLACED ON A HORIZONTAL COMPACTED SURFACE. THE USE OF RUBBERPLASTIC PANS IS RECOMMENDED IF THERE IS, MAY REK OF RAIN DURING THE STORAGE PERIOD, WHICH IS THE MOST PROBABLE CASE (OPTIONAL IF VISIBLE MARKS ARE SEEN), THE PANELS CAN BE STORED IN STACKS LESS THAN 4 MOS.

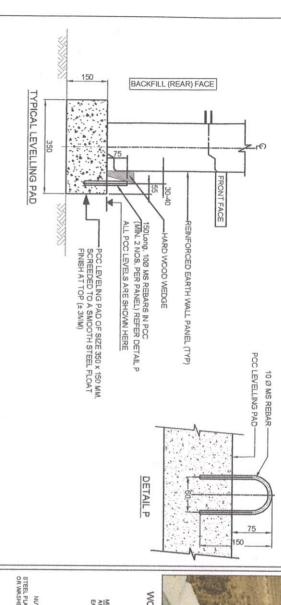
TRANSPORTATION OF FACIA PANELS:

THE PANELS SHALL BE TRANSPORTED SO AS TO REVENT THEM FROM TIPPING OR RACKING, AS WELL AS TO PREVENT UNDESTRALE CONSTRAINTS IN THE PANELS STACKS OF PANELS SHALL NOT HAVE MORE THAN 5 (FINE) UNITS DURING TRANSPORTATION. SEPRATING EACH BY SUITABLE PADDING TO PREVENT BREATMENT SEPRATING EACH STACKS OF PANELS SHALL BE STORED ON SITE IN THE SAME CONDITIONS AS ON THE CASTING YARD STACKING AREA, EACH STACK OF PANELS SHOLLD BE TRANTLY TED WITH



ORCED SARTH SIDIA PYT, CID.
CKAS EXTENSON, ESPOSSENTIC SHOWFUS,
COPERATIVE HOUSTELAND, ESTATE, APPROVED BY 11.06.2019 1:150 DRAWING STATUS:- ISSUED FOR APPROVAL CONSTRUCTION METHODOLOGY & SAFETY RULES (IENKA IEE-GEOMEGA SYSTEM)

TAING / TT/GEOMEGA/CI ants Pyt. Ltd. escription on Revisions

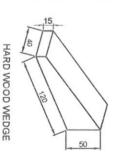




WOODEN CLAMPS WITH TIE ROD, WASHER & NUT



WOODEN CLAMP WITH TIE ROD, WASHER & NUT







OUNLITY CHECK AT THE CASTING VARDS.

PANES SHALL RESULECT TO REJECTION BEGJUSE IF ANY OF THE FOLLOWING
POINTS ARE ORIENTED:

VISUAL ASPECT.

VISUAL ASPECT.

THE FOLLOWING DEFECTS SHALL BE SUFFICIENT CAUSE FOR REJECTION OF THE
THERE OF THE POINT OF THE

a) DEFECTS NDICATING AN IMPERFECT MOULDING, ii) HONEYCOMEED OR OPEN TEXTURE CONCRETE, iii) PANELS HAVING BROKEN SURFACE / EDGE, iv) PANELS WITH POOR FINISHING,

ROVISION FOR REPAIR OF DAMAGED SURFACES OF PANELS AT

THE CHAMPERED EDGES AND CORNERS OF PANIES ARE SUSCEPTIBLE SURFACE DAMAGE AND BREAKAGE DURING HANDLING TRANSPORTATION A STORAGE UNDER SUCH CASES SULTABLE REPAIR COMPOUNDES SHALL BE US AS PER METHODOLOGY SEPERFIED BY THE MANIFACTURER OF SUCH PRODUCT OR REPAIR AND CORNERS TO PANIEL DIMENSIONS A GEOMETRY, SUPERFIELD SHRINGGE CRUCKS MAY ALSO BE REPAIRED MENAS OF FREE FLOWGROUTS. AND USED USED UCTS

QUALITY CONTROL:-

QUALITY ASSURANCE PLAN REQUIRED FOR THE CASTING OF PANEL SHALL BE AS PER DRAVNINGNO. GEOMEGIA:QAP/P1

REINFORCED EARTH WALL SYSTEM - CONSTRUCTION METHODOLOGY

THE WALL SYSTEM CONSIST OF ORIGINAL GROUND, CONCRETE LENGLING PAD, DRAMAGE ARRANGEMENTS CATERING TO CONSTRUCTINA MAD SERVICE CONSTRUCTINA MAD SERVICE CONSTRUCTINA MAD SERVICE CONSTRUCTION AND SERVICE OF CONSTRUCTION AND SERVICE OF CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION OF REPORT CONSTRUCTION OF THE REPORT DEATH WALLEND ARE TRACEN INTO A COCUMIN IN THE DESIGN MALFYSIS, A CHANGE IN ANY OF THESE ITEMS WOULD HAVE A DETERMENTAL EFFECT ON THE WINLE.

PLACING OF LEVELLING PAD: (Fig. 22)

1. FOR THE LENGTH OF THE REMPORED EARTH OF MALL BESTIMN TO BE BUILT ECCANATE THE SITE TO THE DEETH, GAME AND METH SECRETION TO BE BUILT ECCANATE THE SITE TO THE DEETH, GAME AND METH SECRETION AND REPLACEMENTH SHEARES COMPACTED FLAT, RELECTION AND REPLACEMENT SHEARTH SECRETION OF SUTRALE GROUND IMPROVEMENT IF REQUIRED AS ERES FOUNDATION DESIGNAD. OR SUTRALE GROUND IMPROVEMENT IF RECUIRED AS ERES FOUNDATION DESIGNAD CONSTRUCTION BRAWNED.

2. LEVELAND COMPACT THE FOUNDATION AND CONSTRUCTION SHAWNED.

3. ENTRALESH FOR MANDER FOR EXPELLING PAD, THE PROBLECT TWO SECRETION OF SECRETION OF SHAUL CONSIST OF TWO SECRETION OF SECRETION OF SHAULE ARRANGEMENT ON ANOTH THE SECRETION OF SHAULE ARRANGEMENT ON ANOTH THE SECRETION OF SHAULE SHAULE AND MALT THE CONCRETE SURFACE SHOULD SHAULE SHAULE SHAULE AND MALT HAVE SHAULED SHAULE S

EQUIPMENT PLANTS AND MACHINERIES REQUIRED:-

. SMALLHYDRAULD CRANE PICK W. CARRY TYPE FOR PANEL WEIGHT 03TTO 12T.
2 DUMP OR TRUCKS, MOTOR SCRAPERS, OCZERS, GRADERS, SROUTEND LOADERS, WATER TRUCKS, ETC. FOR HAULING DIMPNICA HID PREDING BUCKFILL.
3. VIBRATORY, FOILER, FOR MASS COMPACTION (MAX. 13 MT). AS PER MORTH CLAUSE
4. VIBRATING ROLLER (WALK BEYIND TYPE MAX. 13 MT). AS PER MORTH CLAUSE

MISCELLANEOUS TOOLS AND SMALL ITEMS:-

I, SASUMNO CHE CANDA MU AN AVERAGE BECTINO OF ZA-D SYMTON)

1. SIMOSOTTANOBERT STO UNICADNIS PANELS (CNIC, PER PANEL)

2. TIMBER BRACINIS FOR FIRST COURSE PANELS (CNIC, PER PANEL)

3. HARD STEEL CROW BARS (PROVED BARS)

4. 1. ZAS SPRIT LENEL (CNIE)

4. 1. ZAS PENTESS AZEZ (CNIE)

5. SUITABLE SPANIERS TO COPERATE BOLT OF WOODEN CLAMPS WINNING

5. SELOGE HAMBER (CNIE)

7. SELOGE HAMBER (CNIE)

8. SELOGE HAMBER (CNIE)

9. SELOGE HAMBER (CNIE)

9. SELOGE HAMBER (CNIE)

9. SELOGE HAMBER (CNIE)

10. SELOGE HAMBER (CNIE)

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12. SELOGE HAMBER (CNIE)

13. SELOGE HAMBER (CNIE)

14. SELOGE HAMBER (CNIE)

15. SELOGE HAMBER (CNIE)

16. SELOGE HAMBER (CNIE)

17. SELOGE HAMBER (CNIE)

18. SELOGE HAMBER (CNIE)

18. SELOGE HAMBER (CNIE)

19. SELOGE

(FIGURE - 23)

PLACEMENT OF REBAR

(FIGURE - 22)

Residential Engineer

ISHACIKANO IMBER BRACKO(Z)

15.HACIKANO IMBER BRACKO(Z)

16.WEDOES (MM. 2 Nos. PER PANEL)

17.HEAVY DUTY CUTTERIELDE TO TALOR THE PO MERIC STRANDAPENES)

18.PACEN BLOCK (DUNNAGE

18.PACEN BLOCK (DUNNAGE)

18.PACEN BLOCK DUNNAGE

18.PACEN

HARDWOOD WEDGES, MIN., 2 Now, PER PANEL,
LCLAMPS, ONE PER VERTICAL JOHNT FOR THE LENGTH OF WALL UNDER
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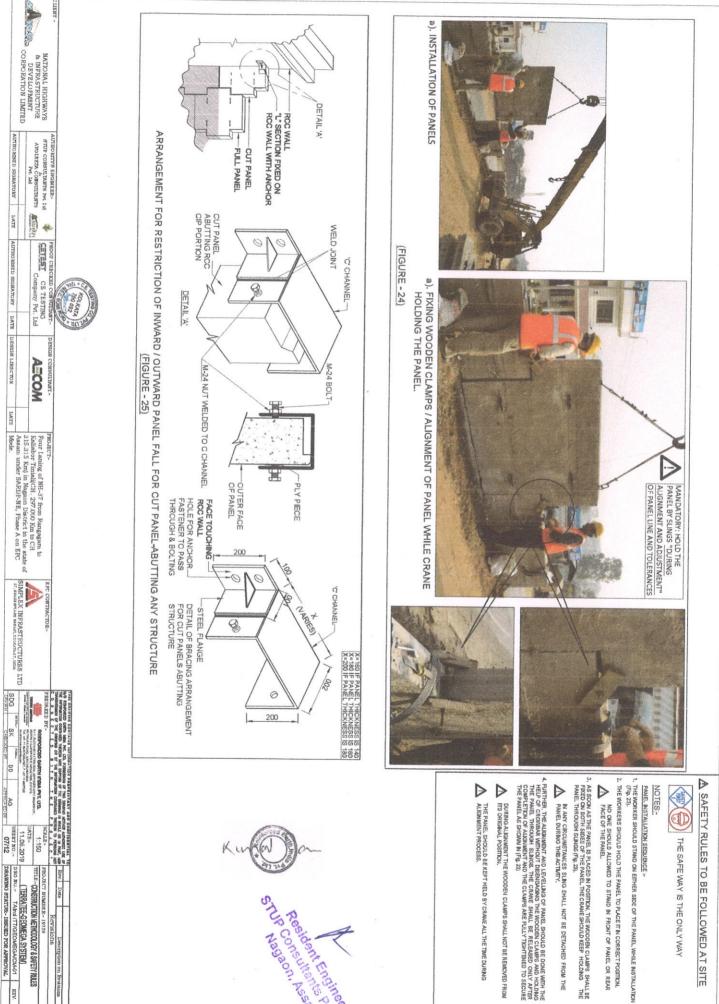
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Four Laning of NH-37 from Rangagara to Kaliabor Tiniali(CH. 297.000 Km to CH 312.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EPC Mode.



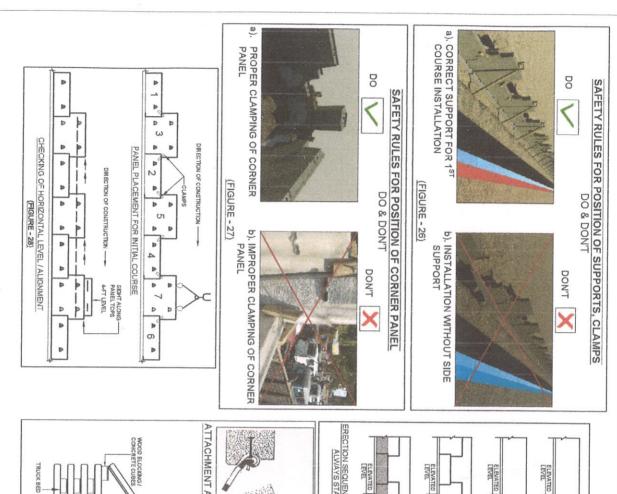
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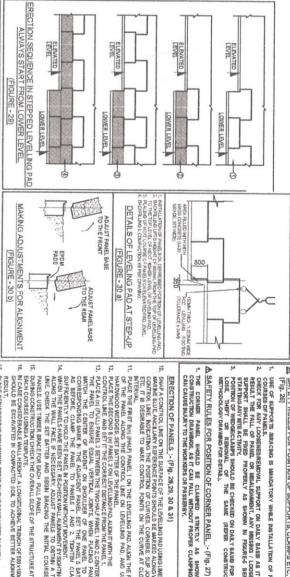
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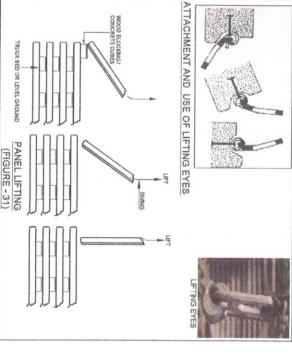
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TITLE -- CONSTRUCTION METHODOLOGY & SAFETY RULES (TERRATEE-GEOMEGA SYSTEM)

THE SAFE WAY IS THE ONLY WAY









- URE OF EMPOORS REACHING IS MANDATORY WHILE DISTRILLATION OF FRET COURSES OF PAILAGY CONSERVENCES OF MANDATORY ON DAILY BASIS AS IT CAN RELIAIT THE FALL OF PAIRE OR MEALADAMENT, ANY RESIMO / LOOSENED SUPPORT SHALL BE FROM PROPERLY AS SHOWN IN FOLKINGS OF THE START OF THE SAME OF THE START OF THE SAME (REPER CONSTRUCTION) OF WEDGELCLAIMS SHOULD BE CHECKED ON DAILY BASIS FOR ANY LOSE. THEFT OR REMOVAL OF THE SAME (REPER CONSTRUCTION) METHODOLOGY ORWANDE FOR REMOVAL.

1. THE CORNER PANEL SHOULD BE CLAIPED STRICTLY AS SHOWN CONSTRUCTION DEAVABLES, AS IT CAN FALL WITHOUT PROPER CLAIPENG CAN CAUSE MUJKY TO THE WORKERS OR PASSERBY. ERECTION OF PANELS :- (Fig. 28,29, 30 & 31)

- 10. SNAPA CONTROL LINE ON THE SURFACE OF THE LEVELING PAD USING LINE OR WARNE BLUE. ANCILLARY REFERENCE POINTS SHOULD BE WARRED ALONG WITH CONTROL LINE. ROIDCATING THE POSITION OF CURVES, CONTROLS, SUP JOINT STOLL THE SERVABLE TO MARK CONTROL POINTS ON THE CURVE AT CLOSER

- PANELS USE THESE BRACE FOR BOTH FULL PANEL.

 15. DIERNO-GONATINCTRING PER PANELS DE THE STRUCTURE AT
 16. BICASE CONSIDERABLE WALL REGHT, A LONGTUDINA, TRENCH OF 500 HOme,
 SHOULD BE EXCANATED IN COMPACTED SOIL TO ACHENCE BETTER ALIGNMENT
- IT, PLACE RENFORCING POLYMERIC STRIP ON THE COMPACTED SACREL.

 POSITION IT PERSPONICIUMENT, TO CAMELS, POLD THE ROUVINGER STRIP AT
 THE PANE. FACE MAID PASS. ONE BID OF STRAP THROUGH THE GEOMECA
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Four Laning of MH-37 from Rangagara to Kaliabor Tiniali(CH. 297,000 Km to CH 315.315 Km) in Nagaon District in the state of Assan under SARDP-NE, Phase A on EPC Mode.

SIMPLEX INFRASTRUCTURES LTD

0 SAFETY RULES FOR CRANE SAFETY DO & DON'T DONT

a). HYDRA WITH REVERSE MOVEMENT





BARRICADING AND FLAG MAN WHILE MARCHING ON ROAD



d). WORKER NOT ATTENTIVE AT WORK PLACE



f). WORKER MOVING VERY NEAR TO THE LOAD

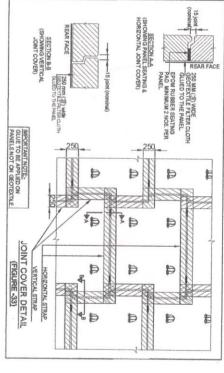
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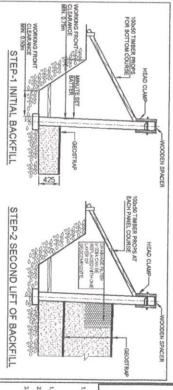


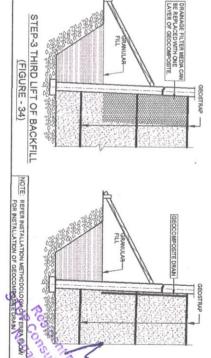
g). LOWERING THE BOOM WHILE CROSSING UNDER OVERHEAD WIRE



(FIGURE - 32) h). COLLISION OR HYDRA BOOM WITH LIVE WIRES.







A SAFETY RULES FOR CRANE SAFETY :- (Fig. 32)

TORY IN A CRANE THIS WILL

AREA OF THE CRANE

LE DOING ANY ACTIVITY AND JUDING THE WORKERS AND ANE ABOVE 10 KMH AND

LOAD THE SWING SHOULD BE CONTROLLED BY TWO HELPERS FOR DISTANCE AND HOLDING THE LOAD WITH THE HELP OF SMUST SEE AT 3M DISTANCE FROM CRAINE, NO WORKERS SHOULD DTHE LOAD BY HANDS OR MOYE NEAR TO THE LOAD (CRAINE.

ROUTINE CHECKLIST FOR CRANE:
THE STE REPRESENTATIVE SHOULD CHECK THE FOLLOWING POINTS IN ROUTINE.

1. OPERATOR MUST HAVE HEAVY VEHICLE DRANIG LICENCE.
2. ALL REFAIS (PARKING RESKS) MUST BE CHECKED BEFORE USE.
3. THE PRESSURE SHOULD BE CHECKED BEFORE USE.
4. ALL HONGS MUSTES HOVED BE FOR PROPER FRICTION.
4. ALL HONGS MUSTES HAVE LATH.
5. LIMIT SANTCH MUST BE CHECKED IN INTERVALS TO ENSURE SAFETY-SLING SHOULD BE MATAMED.
6. CHECK SLING FERIODICALLY FOR ANYWERA MAD TEAR.
7. THE CHALFE MUST HAVE YALD FRIESS CENTRACTE.
8. FRONT AND BACK LIGHTS SHOULD BE IN WICK WAG CENDITION.
8. FRONT AND BACK LIGHTS SHOULD BE IN WICK WAG CENDITION.

A SAFETY RULES FOR "U" SHAPED BRACKETS:-

THE CONSTRUCTION TECHNIQUE ALLOWS THE MAIN BUILDING ACTIVITIES IT WAS USED ON THE BANKED OUT FROM THE BANKETS. SIDE OF THAT IT HE WALL FACE ELEW AND THE FACE THAT THE WALL FACE ELEW AND THE FACE THE WALL FACE THE

JOINT COVER DETAILS :- (Fig. 33)

1. JOINTS IN THE PAVIES NEED TO BE SEALED USING A GEOTEXTILE FILTER CLOTH, TO PREVENT ANY FINES FROM ESCAPING, THE GEOTEXTILE NEEDS TO PASTED IN THE PAVIE.

RULES FOR BACKFILLING :-

THE RANGE SHITL PLACEMENT MEAR PAVIES SHOULD BE AVIDED, AS IT CAN MISALICN
THE PAVIES WHILE SPREADING DEVIA MEATH-MODER,
2. BACKERL SHOULD BE SPREADIN DIRECTION AWAY FROM THE PAVIES. TOWARDS
FREE BIOLS OF THE SOAL REMPORCEMENT.
3. HEAVY COMPACTION COUPRIENT SHALL BE RESTRETED WITHIN LAZONE OF
BACKWALL FANGE OF WALLES AND
IN WORSE SITUATION FALLING OF PAVIES. IN CASE OF WALDR ACCIDENT.

BACKFILLING:- (Fig. 34)

1. THE CONSTRUCTABILITY AND PERFORMANCE OF A RENFORCED EARTH @ STRUCTURE ARE DIRECTLY RELATED TO THE BACKELL QUALITY AND IN THE MANNER WITHOUT SELECT. THE HEAPES OF BACKELLAUS IS TO BE DUMPED OF THE RENFORCEMENT. THE DUMPED SELECT DEARTH WATERIAL IS TO BE PUSHED WARD FROM PANIEL PERFORMENT. AND RECTION TOWARDS OF HE RENFORCEMENT. THE DUMPED SELECTED BATTLE POSSOR BE DUSTOR SEMPORCEMENT. THE DUMPED SELECTED WATERIAL IS TO BE PUSHED WARD FROM PANIELS PERPODICULAR DISCIPLIANCE BOSSOR SEMPORCEMENT. THE DUMPED SELECTED BATTLE POSSOR SEMPORCEMENT AREA, SPREAD THE FACH BE UNDESTRUCTABLE OF THE POSSOR SEMPORCEMENT. THE POSSOR SEMPORCEMENT AREA, SPREAD THE AWAY FROM THE PANIELS WAND TOWARDS FREE BOSS OF THE POLYMERIC STRUCTURES OF THE POLYMERIC STRUCTURES FOR THE POSSOR SEMPORCEMENT. THE POLYMERIC STRUCTURES AND TOWARDS FOR SERE BOSS OF THE POLYMERIC STRUCTURES AND TOWARDS FOR SERE BOSS OF THE POLYMERIC STRUCTURES AND TOWARDS FOR THE SEMESTAL TOWARDS PANIELS BY POSSOR PANIELS BY POSSOR SEMESTAL TOWARDS PANIELS BY POSSOR PANI

LINDERS KARPH USE OF HEAVY ROLLERS WITHIN 1.2M FROM THE FRANKLASSES.

IF PET POLYMERS STRE LEARTING IS LONG A SECOND LOAD MAY BE REQUIRED TO BACKFILL TOTHE BUY OF THE STREET, IF SOLD BACKFILL SHALL BE FLACED ON THE STREET, IF SOLD BACKFILL SHALL BE FLACED ON THE STREET, IN THE SELECTED BACKFILL SHALL BE FLACED ON THE STREET, IN THE STREET, IN THE COMPACTED THE LINE SHALLD BE FLACED ON THE STREET, IN THE FRAST ROW OF PANELS, AND ONLY THE INTILL ROW OF PANELS, THE GACKFILL AS NOT PLACED AGAINST THE PANEL BUY THE FRAST ROW OF THE STREET, IN THE STREET STREET, IN THE STREET

NOTE:
PHOTOGRAPHIC CONTENTS ARE TYPICAL FOR DEPICTING VARIOUS ACTIVITIES
FOR GENERAL UNDERSTRADING ONLY, ACTUAL ARRANGEMENTS AT SITE MAY
VARY AS PER LOCAL SITE REQUIREMENT.



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DATE Four Laning of NH-37 from Rangagara to Kaliabor Tiniali(CH. 297,COD Kin to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EPC Mode.

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COMPACTION DO & DON'T

DON'T

X

CORRECT PLACEMENT OF BACKFILL AT LEAST 3-4 m AWAY FROM PANELS.



(FIGURE - 35)



LAYING OF PET POLYMERIC STRIP AND BACKFILL & WINDROWING FIGURE - 36)



(FIGURE - 38)



TYPICAL BACKFILL PLACING AND SPREADING



COMPACTION OF SOIL BEYOND 1.5m

WIDE ZONE FROM PANELS (FIGURE - 37)

SPECIAL PRECAUTIONS :- (Fig. 35)

MOVEMENT OF HEAVY MACHINERES OR COMPACTION PLANTS (MASS >1 MT)
WITH IN 15 M DISTANCE FROM PANELS COULD LEAD TO MISALIGNMENT)
STRUCTURE DAMAGE OF THE WALL FACING AND OVERSTRESSING OF THE

DWA SLOPE OF 5% (FROM WALL TO INSIDE) IN ORDER IN DRAINAGE OF THE BACK SIDE OF THE PANELS. THE

FILL SHOULD BE PUSHED TOWARD THE PANELS OR MAKEDIA TELY BEHIND THE PANELS BY DROPPING FROM A.AIAAGE OF THE BACK SIDE OF THE PANELS, THE BEML - AS REQUIRED TO DETAIN THE REQUIRED MOSTURE CONTENT (OMC) - SHALL BE MADE DETAIL REFER TO WALL CROSS-SECTIONAL

"SBUCKET, TESTALE PLACEMENT, RECHECK THE W COURSE PANEL PLACEMENTS, UNTOWARD PANEL R ANY MES-ALINGMENTS, UNTOWARD PANEL

DO NOT START A CHYDRES ON WET BACKFILL (E.G., DUE TO HEAVY RAINS), THE BACKFILL SHALL BE ALLOWED TO DRY TO OPTIMUM MOISTURE CONTENT (OMC) AND THEN TESTED FOR ADEQUACY OF COMPACTION REQUIREMENTS.

COMPACTION :- (Fig. 36,37 & 38)

BEFORE COMPACTION IS STARTED PLACE PROPS SO AS NOT TO ALLOW ANY COLTINARD MOVEMENT OF PANELS FOR 2 LAYERS, WEDGES MUST ALSO BE USED TO PREVENT SUCH MOVEMENTS. OMPACTION ECLIPMENT USED WITHIN 1.5 M OF THE WALL SHOULD BE A DIBRATIONY ROLLER OR PLATE WEIGHING NOT MORE THAN 1.5 MT CAPACITY SUBJECT OF MIN. 50% OF MAXIMUM PROCTOR DRY DENSITY, AS PER

HE WALL FACING PANELS A ROLLER OF 8-19 TONNES SHALL BE USED SUBJECT TO SATISFACTORY

MERACTION SHALL BE PERFORMED IN SUCH A WAY THAT THE SHALL MOVE IN A DIRECTION PARALLEL TO THE WALL FACING WORK TOWARD THE BAD OF THE SOIL REINFORCEMENT AWAY WALL FACI NG. TO ACHEVE MIN. 55% OF MAXIMAIM MODIFIED. YDBNSTY.

MENT ROLLS PARALLEL TO THE WALL FACING, LEAST 1.5 M FROM THE WALL AND WORKS TOWARDS

REPAIR ABOVE STEPS UNIT THE TOP OF THE WALLS REACHED, AS SCONA.S
THE THERD LETT OF EMACKEL COMMERCED THE FROMT OF THE WALL SHOLLD
RE BACKFRIED, THERE SHOULD NOT BE A GAP OF MORE THAN THO DAYS. N
USE STRUCTURES UNCE THE DELAY, MAY LEAD TO DEVING OF SOUR SED AND
THE COMPACTEN. MAY SEL LOST, FURTHER MOVEMENT N FANELS MAY BE
CREENVED IF LETT UNATTENDED IN EXCESS OF TWO DAYS.
CONSTRUCTION TOLERANCE FOR VERTICAL FAMELS.

- ±5mm PER METER HEIGHT - ±20mm N 4.5 M TEMPLATE

VERTICALITY
BULGANG (PERTICAL) & BOWING
BURGEZONTAL
(HOREZONTAL)
ALIGNMENT ALIGNMETOP
(HOREZONTAL)
VERTICAL ROTATION
JOINTS ±1.5" FROM REFERENCE ALIGNMENT.
 +5mm, -10mm (HORIZONTAL) ±5mm (VERTICAL). - ± 10mm
- ±50mm FROM REFERENCE ALIGNMENT

90 **.**₽≥

SIMPLEX INFRASTRUCTURES LT

NATIONAL HIGHWAYS
& INFRASTRUCTURE
DEVELO PMENT
CORPORATION LIMITED

STUP CONSULTANTS IN IN AYOLEZA CONSULTANTS

CETEST CE TESTING Company Pvt. Ltd

A COM

Four Laning of NH-37 from Rangagara to Kaliabor Tiniali(CH, 297,000 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EFC Mode.

DATE

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PROTECTION AGAINST FALLING OF THE WORKERS FROM HEIGHT:

DURING THE INSTALLATION OF THE FACING PANELS THERE IS A RISK OF FALL OF THE WORKERS. THIS IS WHY THE USE OF SAFETY BARRIERS IS MANDATORY.ALONG WITH THE USE OF A LIFELINE AND SAFETY HARNESS.

SAFETY NOTES IN CASE OF FLY ASH AS FILL MATERIAL



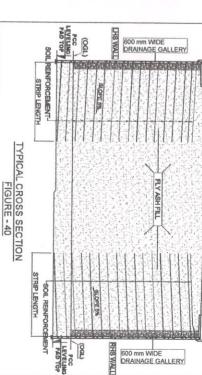


PLACE THE WALL PROTECTION BARRIER IN BETWEEN THE TWO HALF FILLED PANELS IN SUCH A WAY SO THAT ITS SIDE PIPES SHOULD REST ON THE SHOULDERS OF THOSE PANELS.



TYPICAL SAFETY BARRIER-PLACING AT SITE

FIGURE - 39



- LAYING AND COMPACTION ACTIVITY MUST BE DONE WHILE THE MATERIAL IS SATURATED.

 FLY ASH SHALL NOT BE DRY IN ANY CONDITION. IN SUCH SITUATIONS, NO WORKERS SHOULD BE ALLOWED TO CONTINUE WITH THEIR WORK, WORK CAN RESTART ONLY AFTER WATER SPRINKLING IS DONE.

 ENSURE THAT EVERY EMPLOYEE MUST WEAR FFP2 DUST MASK BEFORE COMMENCING ACTIVITIES IN PROXIMITY/VICINITY OF FLY ASH. IT IS A MANDATORY REQUIREMENT NOT TO START WORK WITHOUT FFP2 DUST MASK.







DEVELOPMENT CORPORATION LIMITED	MATIONAL HIGHWAYS

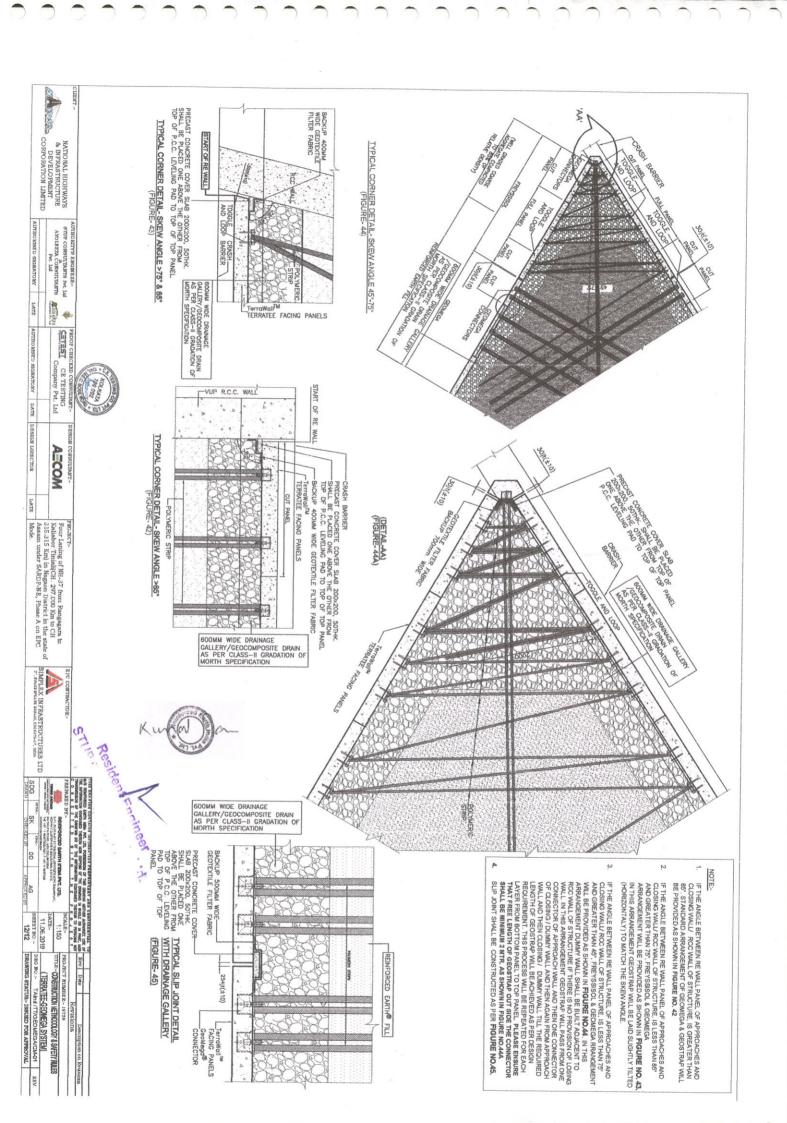
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DESIGN DIRECTOR	A=CC

DATE Four Laning of NH-37 from Rangagara to Kaliabor Tiniali(CH. 297,000 Km to CH 315.315 Km) in Magaon District in the state of Assam under SARDE-NE, Phase A on EPC Mode.

SIMPLEX INFRASTRUCTURES LTI
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QUALITY ASSURANCE PLAN

S/No	Testing Parameters Acceptable	Acceptable	Frequency	Rasnonsibility	Responsibility Code Applicable
		Limits			A comment of the comment
CONCRETE	RETE				-
Þ	Workability/Slump	25-75 mm	Every Batch of concrete at point of	Main	IS 456:2000
	Test			Contractor	
00	Compressive Strength	As per Grade of	Compressive Strength As per Grade of Three Test specimen for every batch	Main	IS 456:2000
		Concrete	of concrete	Contractor	15 516:1959
C	Assesment of Lifting	10 Mpa	One Test every fortnight	Main	IS 456:2000
	Strength			Contractor	IS 516:1959
STEE	II STEEL REINFORCEMENT (PRECAST PANEL)	AST PANEL)			
Þ	Tensile Strength	As per Grade of Steel	As per Grade of On appoval of Source/Starting of Main Steel Work. New Test should be conducted Contractor	Main	IS 1786:2008
			on every change of source		
œ	Elongation	As per Grade of Steel	On approval of Source/ Starting of Main Work. New Test should be conducted Contractor on every change of source		IS 1786:2008
0	Chemical Composition	As per Grade of Steel	As per Grade of On appoval of Source/ Starting of Main Steel Work. New Test should be conducted Contractor		IS 1786:2008

	>	II EPDM Pad	0	ω	Þ	1 Lifting	s/No	ANNE
	Shore Hardness	Pad	Elongation	Yield strength	Tensile Strength	Lifting Anchor	g Parameters	ANNEXURE-2
	85 <u>+</u> 5 IRDH		15%	300 Mpa	420 Mpa		Acceptable Limits	
Reinforced Earth	One Test for 10000 Sqm of Reinforced Earth Wall, Two Test for Nore than 10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test for More than 50000 Sqm of		Reinforced Earth Wall	10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test for More than 50000 Sqm of	One Test for 10000 Sqm of Reinforced Earth Wall, Two Test for More than		Frequency	
	Terre Armee/As per contract			contract	Terre Armee/As per		Responsibility	
	RECo India Specification in General Arrangement of Panel Accessories Drawing		9.5	of Panel Accessories Drawing	RECo India Specification in General Arrangement		Responsibility Code Applicable	

ANNEXURE-3
S/No Testing Parameters

Polymeric Strap

Limits Acceptable

Frequency

Code Applicable

Ultimate Tensile Strength in Machine

strength as per Manufacture

ap One Text for 10000 Sqm of RE Wall
er Two Test for More than 10000 Sqm
but Less Than 50000 Sqm of RE Wall
1 Four Test for More than 50000 Sqm of
RE Wall

Terre Armee/As per contract

ASTM D 4595

ASTM D 6637

load

As per Manufacture's Specification

				A Phy	V GeoMega Sleeves	C Pe		L		A Te	IV Non-wo		Size	Ap		1 Pe	b) Ge
				Physical Dimension	Sleeves	Permittivity	CBR Puncture			Tear Strength	IV Non-woven polypropylene (Geotextile)		6	Apparent Opening		Permittivity	b) Geo textile for Geo-Composite
	Drawing	Reinforcement	in Panel	Refer Tolerance		2.005-1	1178 N			0.18 KN	(Geotextile)		≤0.43 mm			≥0.5 per sec	omposite
of Reinforced Earth Wall, Four Test	10-1-1-1-1-11-11-11-11-11-11-11-11-11-11	10000 Sqm but Less Than 50000 Sqm	Earth Wall, Two Test for More than	Refer Tolerance One Test for 10000 Sqm of Reinforced		Reinforced Earth Wall	for More than 50000 Som of	10000 Sqm but Less Than 50000 Sqm	Earth Wall, Two Test for More than	One Test for 10000 Sqm of Reinforced		Reinforced Earth Wall	for More Than 50000 Sqm of	of Reinforced Earth Wall, Four Test	10000 Sam but Less Than 50000 Sam	One Test for 10000 Sqm of Reinforced	
			Armee/As per	Terre				contract	Armee/As per	Terre				Contractor	Main		
Drawing		of Panel Accessories	in General Arrangement	RECo India Specification		ASTMD 4491	ASTM D 6241			ASTM D 4533		Of 15, 14254	1000	ASTM 4751	or iS: 14324	ASTM D4491	

ANNE	ANNEXURE-4				
S/No	Testing Parameters	Acceptable Limits	Frequency	Responsibility	Responsibility Code Applicable
Selec	Selected fill material (Soil)				
juš	Angle of Internal	As Per	Two test for every structure (two	Main	IS 2720
	Friction	Design/Contract	Design/Contract approaches) collected randomly or every change of Source	Contractor	
2	Gradation				
	a Cofficient of uniformity	≥2	One test for every 3000 M ² OR every change of Source	Main	IS 2720
-	b 75 μ passing 15 μ passing	≤ 15% ≤ 10%	One test for every 3000 M³ OR every change of Source	Main Contractor	IS 2720
	CPI	95	One test for every 3000 M ³ OR every change of Source	Main	15 2720
ω	Bulk Density of Soil (Y _{max})	As Per One test for ever Design/Contract change of Source	One test for every 3000 M² OR every change of Source	Main Contractor	15 2720

Resistance Mass per unit area CBR Puncture

≥ 3000 N 2 710 g/m

≥ 16 kN/m

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	REV.					SEZOTE IN.	

AUTHORISED SIGNATORY DATE AUHO KITYS ENGINEERSTUP CONSULTANTS IN. Ltd

AYOLEZZA CONSULTANTS

AYOLEZZA CONSULTANT CEBSCKAT TORSULTATION pressure)

In-Plane Permeability (Hydraulic Gradient, i=1 at 200 kPa

≥ 0.45 I/m

EN ISO-12958

pressure) i=1 at 100 kPa In-Plane Permeability (Hydraulic Gradient,

≥ 0.55 I/m

One Test for 10000 Sqm of Reinforced Earth Wall, Two Test for More Than 10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test for More Than 50000 Sqm of

Armee/As per contract

EN ISO-12958

EN ISO-9864 EN ISO-12236 EN ISO-10319

inforced Earth Wall

AUTHORISED SIGNATORY DATE DESIGN DIRECTOR CETEST CE TESTING
Company Pvt. Ltd A=COM

NATIONAL HIOHWAYS
& INFRASTRUCTURE
DEVELOPMENT
CORPORATION LIMITED

DATE Four Laning of NH-37 from Rangagara to Kaliabor TinialiCH. 297 C00 Km to CH 315.315 Km) in Nagaon District in the state of Assam under SARDP-NB, Phase A on EPC Mode.

SIMPLEX IN FRASTRUCTURES LTD

PREPARE

QUALITY ASSURANCE PLAN

A Physical Dimension

Refer Tolerance

in Panel Reinforcement

Earth Wall, Two Test for More Than 10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test for More than 50000 Sqm of RE Wall One Test for 10000 Sqm of Reinforced

rerre

Armee/Astron

Dand wemforcement

contract

drawing

panel reinforcement

Leakage

No Leakage of

water

JAIRING C	MINISTERNATION CO.				
S/No	S/No Testing Parameters Acceptable	Acceptable	Frequency	Responsibility	Responsibility Code Applicable
CONCRETE	CRETE	-			and the second s
A	Workability/Slump	25-75 mm	Every Batch of concrete at point of	Main	15 456:2000
	Test		delivery	Contractor	
07	Compressive Strength	As per Grade of	Three Test specimen for every batch	Main	IS 456:2000
		Concrete	of concrete	Contractor	IS 516:1959
0	Assesment of Lifting	10 Mpa	One Test every fortnight	Main	IS 456:2000
	Strength			Contractor	IS 516:1959
STEE	II STEEL REINFORCEMENT (PRECAST PANEL)	AST PANEL)			
Þ	Tensile Strength	As per Grade of	As per Grade of On appoval of Source / Starting of	Main	IS 1786:2008
		Steel	Work. New Test should be conducted Contractor	Contractor	
			on every change of source		
CO	Elongation	As per Grade of	On appoval of Source/Starting of	Main	IS 1786:2008
		Steel	Work. New Test should be conducted Contractor	Contractor	
			on every change of source		
0	Chemical Composition	As per Grade of Steel	As per Grade of On appoval of Source/ Starting of Main Steel Work. New Test should be conducted Contractor	Main Contractor	IS 1786:2008

S/No Testing Parameters

Acceptable

Frequency

Responsibility Code Applicable

Ultimate Tensile Strength in Machine

> Polymeric strip Limits

One Test for 10000 Sqm of Reinforced 10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test Earth Wall, Two Test for More than

> Armee/As per contract Terre

> > or ISO 10319

ASTM D 6637

Manufacturer's strength as per

specification

ANNEXURE-3

S/No

Testing Parameters | Acceptable

Frequency

Responsibility

load organ at maximum

Manufacturer's

or ISO 10319

ASTM D 6637

As per

for More than 50000 Sqm of Reinforced Earth Wall

Specification

Lifting Anchor

Tensile Strength

420 Mpa 300 Mpa

One Test for 10000 Sqm of Reinforced

10000 Sqm but Less Than 50000 Sqm

Earth Wall, Two Test for More than

Armee/As per

Terre

contract

Elongation Yield strength

15%

for More than 50000 Sqm of of Reinforced Earth Wall, Four Test

Reinforced Earth Wall

ANNEXURE-2

A Shore

Shore Hardness

85 ±5 IRDH

One Test for 10000 Sqm of Reinforced

10000 Sqm but Less Than 50000 Sqm Earth Wall, Two Test for More than

Armee/As per

Terre

contract

li Non-woven polypropylene (Geotextile)

Tear Strength

One Test for 10000 Sam of Reinforced

Earth Wall, Two Test for More than

Armee/As per

Terre

contract

10000 Sqm but Less Than 50000 Sqm of Reinforced Earth Wall, Four Test

for More than 50000 Sqm of Reinforced Earth Wall

Reinforced Earth for More than 50000 Sqm of of Reinforced Earth Wall, Four Test

CBR Puncture

1178 N 0.18KN

Permittivity

2.005

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	рH		Gradation	Media	3		(Ymax)	Bulk Density of Soil		c Plasticity Index	15 µ passing	b 75 µ passing	uniformity	a Cofficient of	Gradation		Friction	Angle of Internal	Selected fill material (Soil)		5/No Testing Parameters Acceptable	ANNEXURE-4	
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change of Source	One test for every 3000 M² OR every	change of Source	One test for every 3000 M ³ OR every		One test for every 3000 M° OR every change of Source		Design/Contract change of Source	One test for every 3000 M3 OR every	change of Source	One test for every 3000 M ³ OR every	change of Source	One test for every 3000 M2 OR every	change of Source	One test for every 3000 M ³ OR every		every change of Source	Design/Contract approaches) collected randomly or	Two test for every structure (two			Frequency		
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рH		Gradation	Media		H	(Ymax)	Bulk Density of Soil		c Plasticity Index	15 µ passing	b 75 µ passing	uniformity	a Cofficient of	Gradation	THE COLUMN TWO IS NOT	Angle of Internal	Selected fill material (Soil)		5/No Testing Parameters Acceptable	ANNEXURE-4
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One test for every 3000 M OR every	change of Source	One test for every 3000 M ² OR every		change of Source		Design/Contract change of Source	One test for every 3000 M ² OR every	change of Source	One test for every 3000 M³ OR every	change of Source	One test for every 3000 M ³ OR every	change of Source	One test for every 3000 M ³ OR every		every change of Source	Two test for every structure (two			Frequency	
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NATIONAL HIGHWAYS
& INFRASTRUCTURE
DEVELOPMENT
CORPORATION LIMITED

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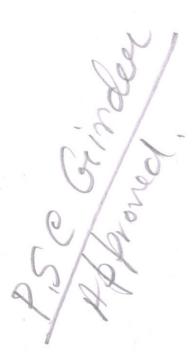
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Approved letter No - 78, 05/05/18



NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.

Four Laning of NH - 37 from Rangagara to Kaliabor Tiniali (Ch. 297.000 Km to Ch:315.315 Km of NH-37) in Nagaon District in the State of Assam under SARDP - NE, Phase A, on EPC Basis











FLYOVER (AT DESIGN CH.314+992) SUPERSTRUCTURE DWGS Drawing is to be reviewed as per 244gis

J.5.200

CONTRACTOR:-

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SIMPLEX INFRASTRUCTURES LIMITED

AUTHORITY'S ENGINEER:-



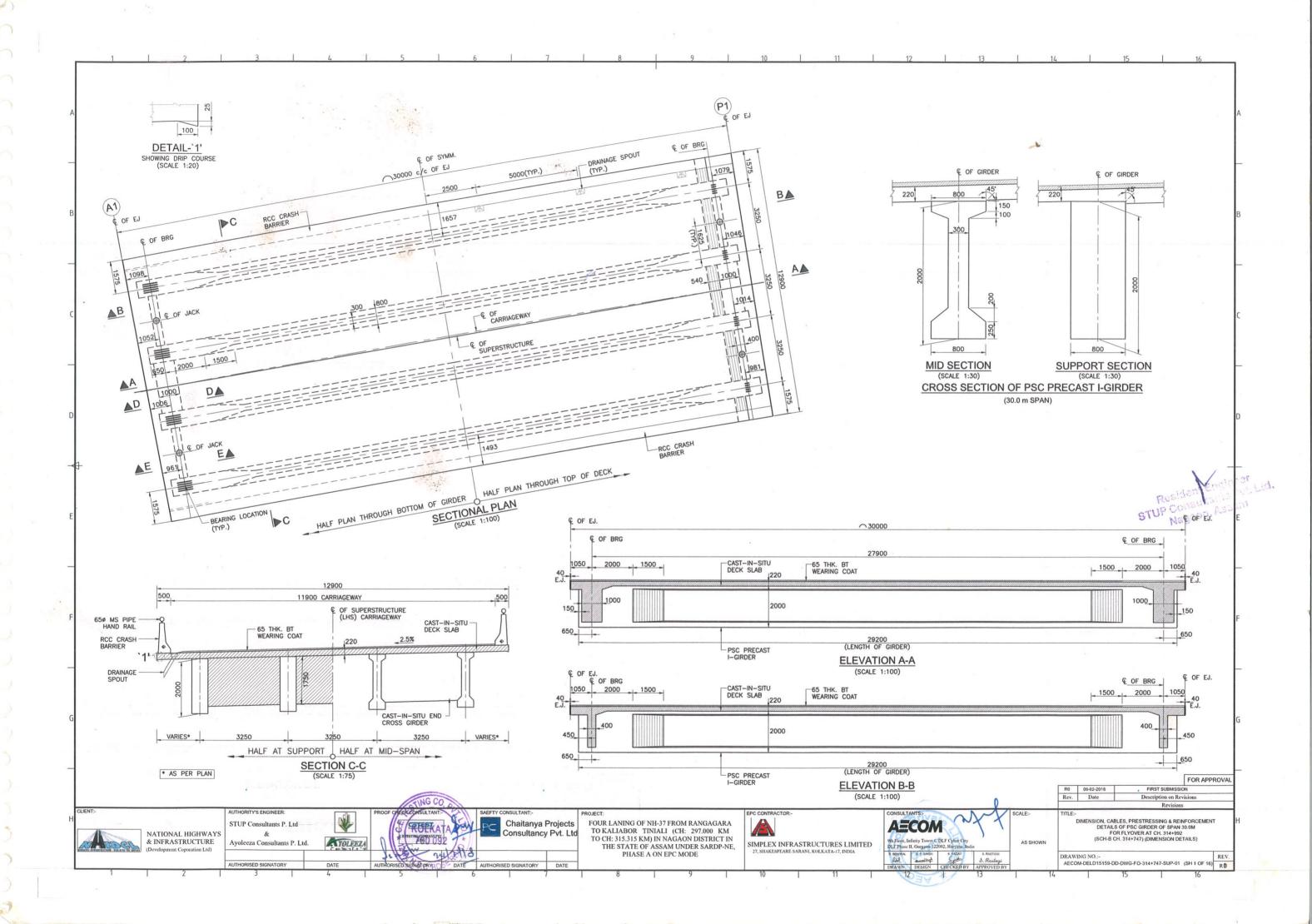
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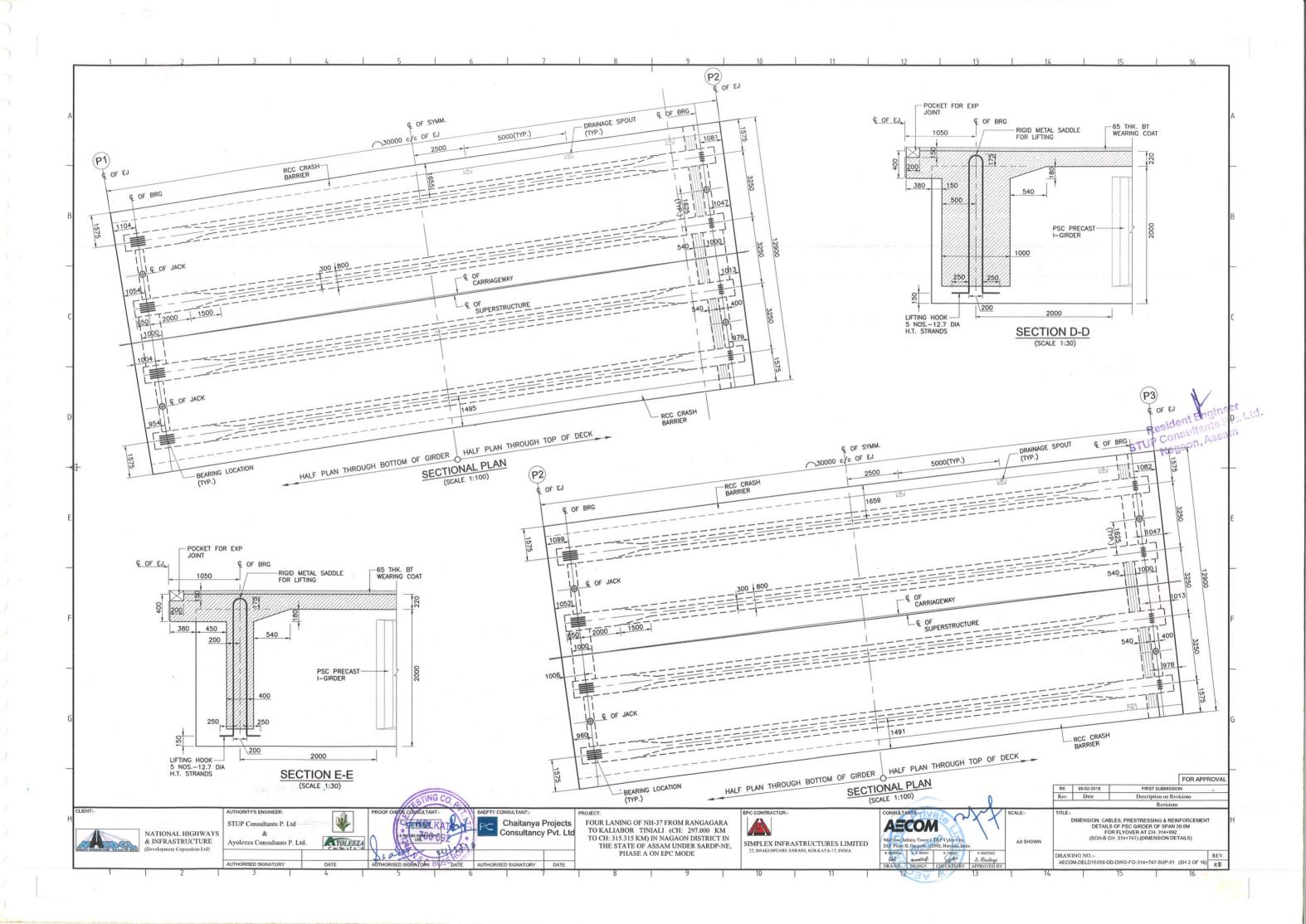
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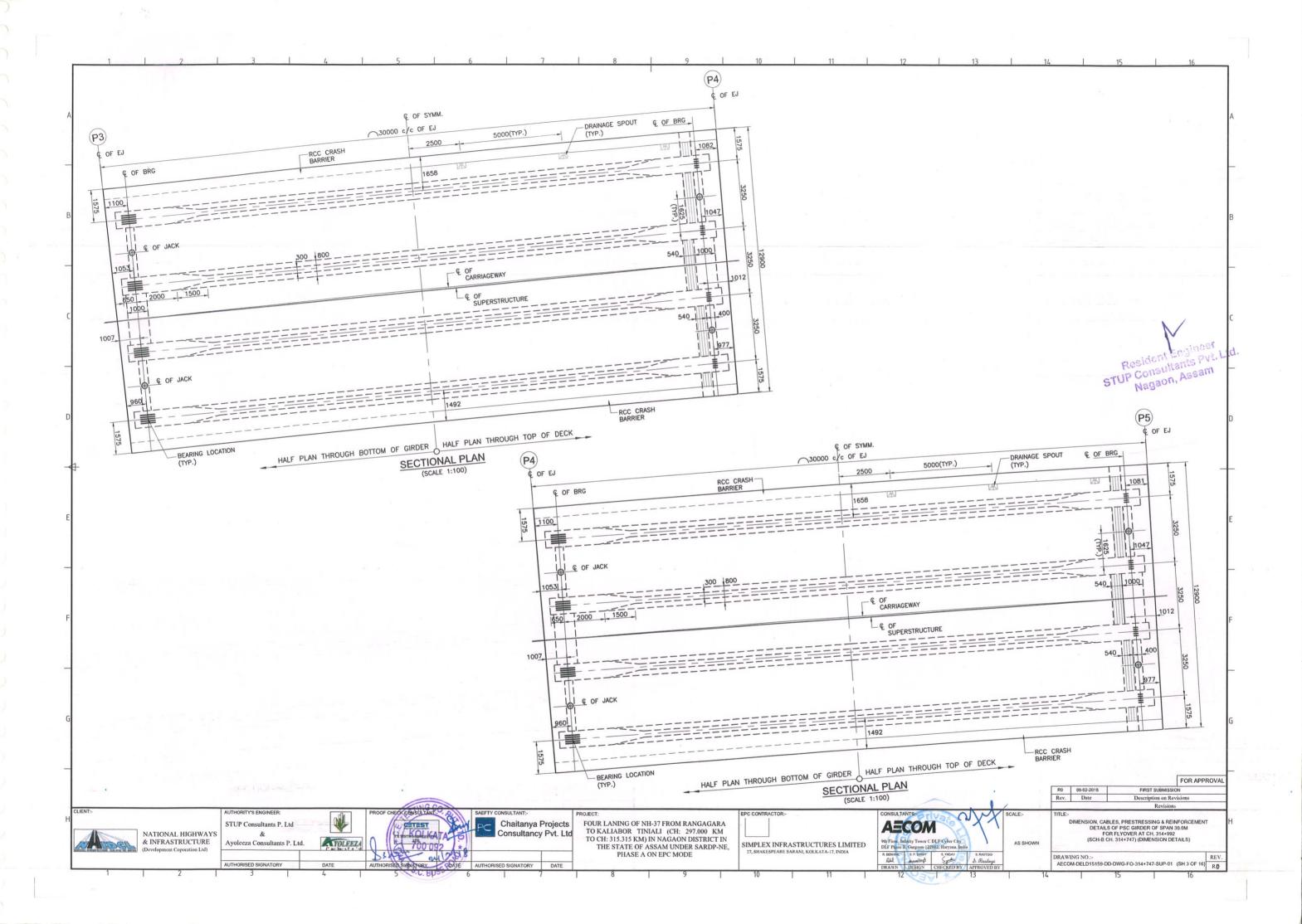
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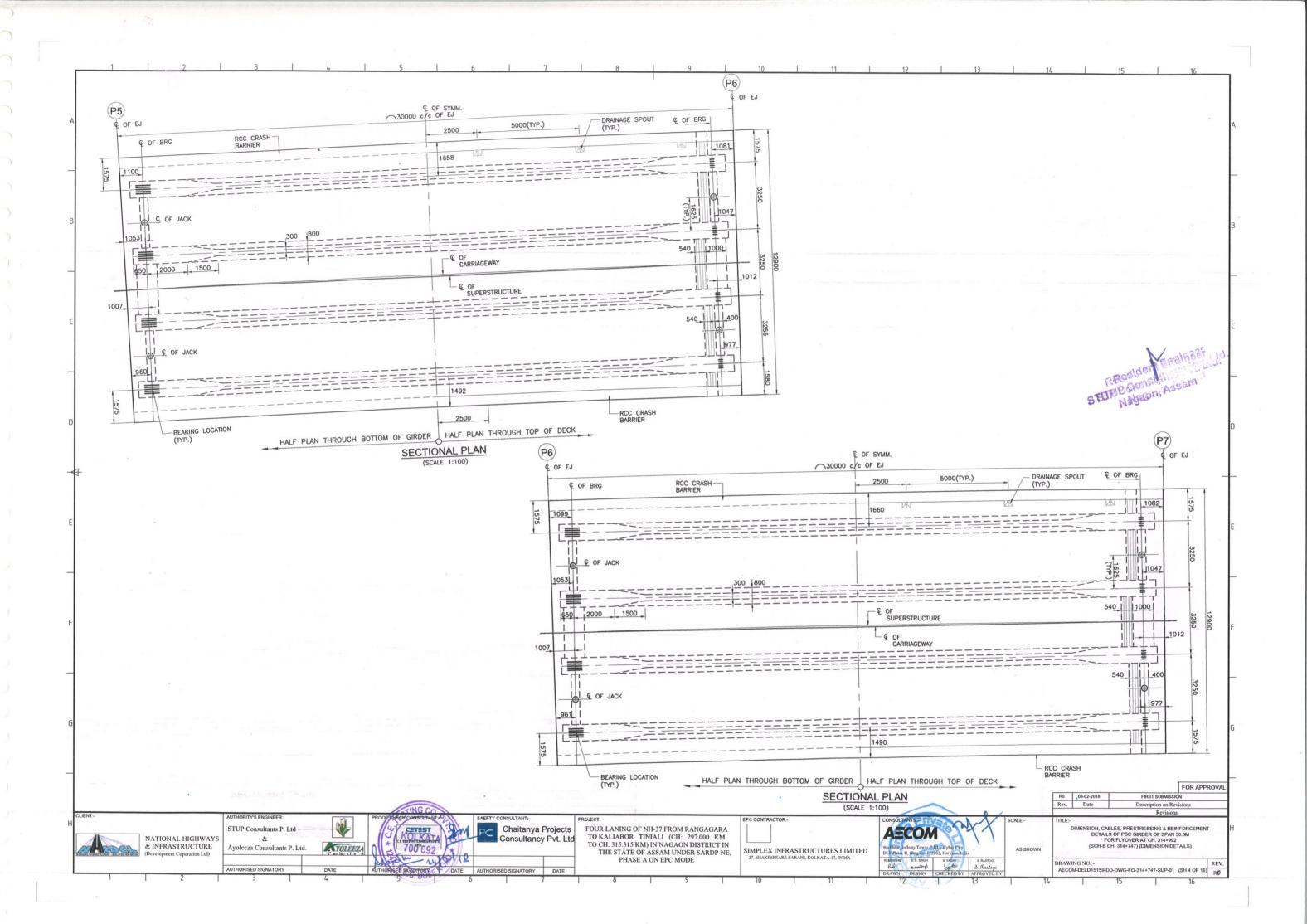
CONSULTANTS:-

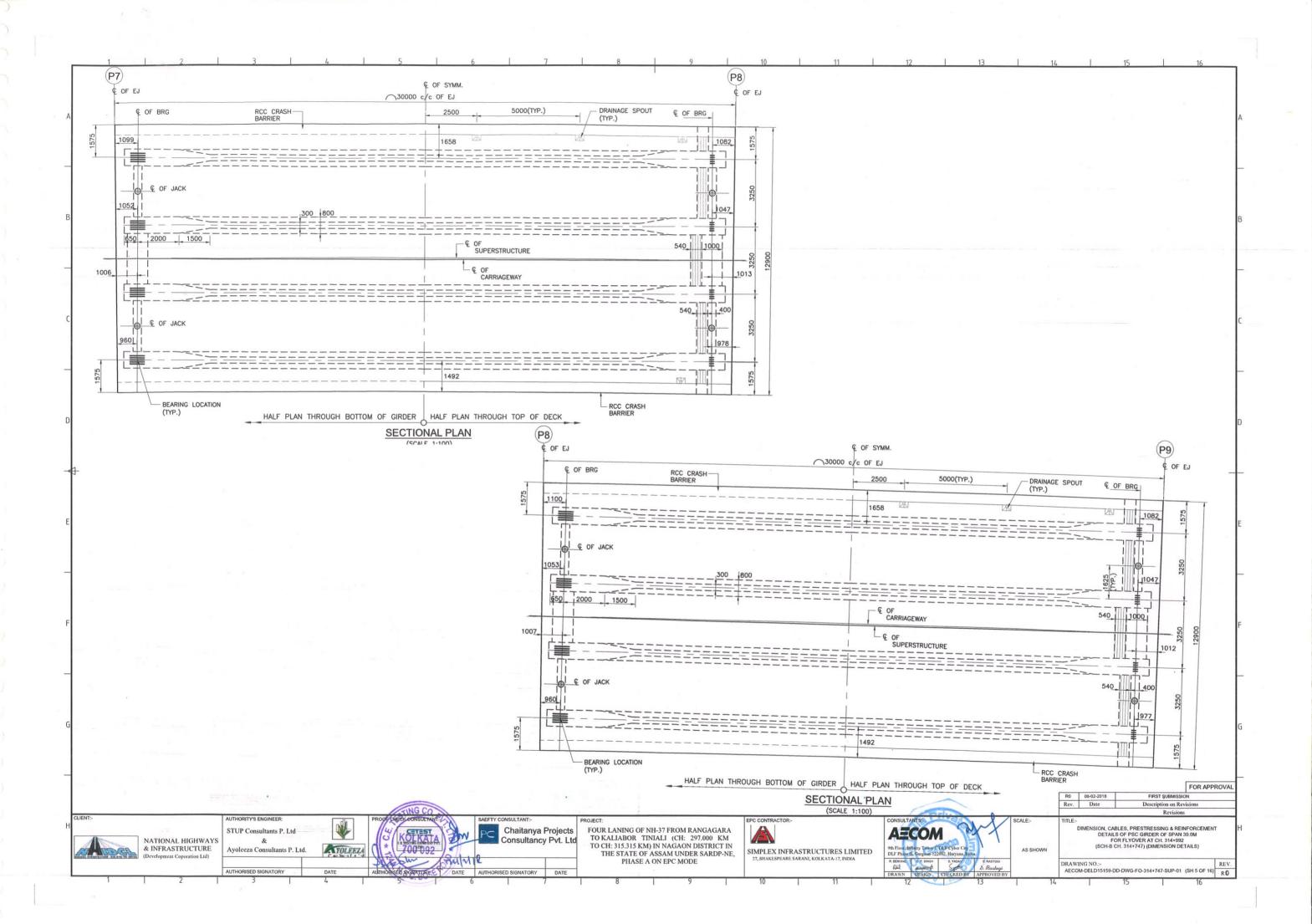


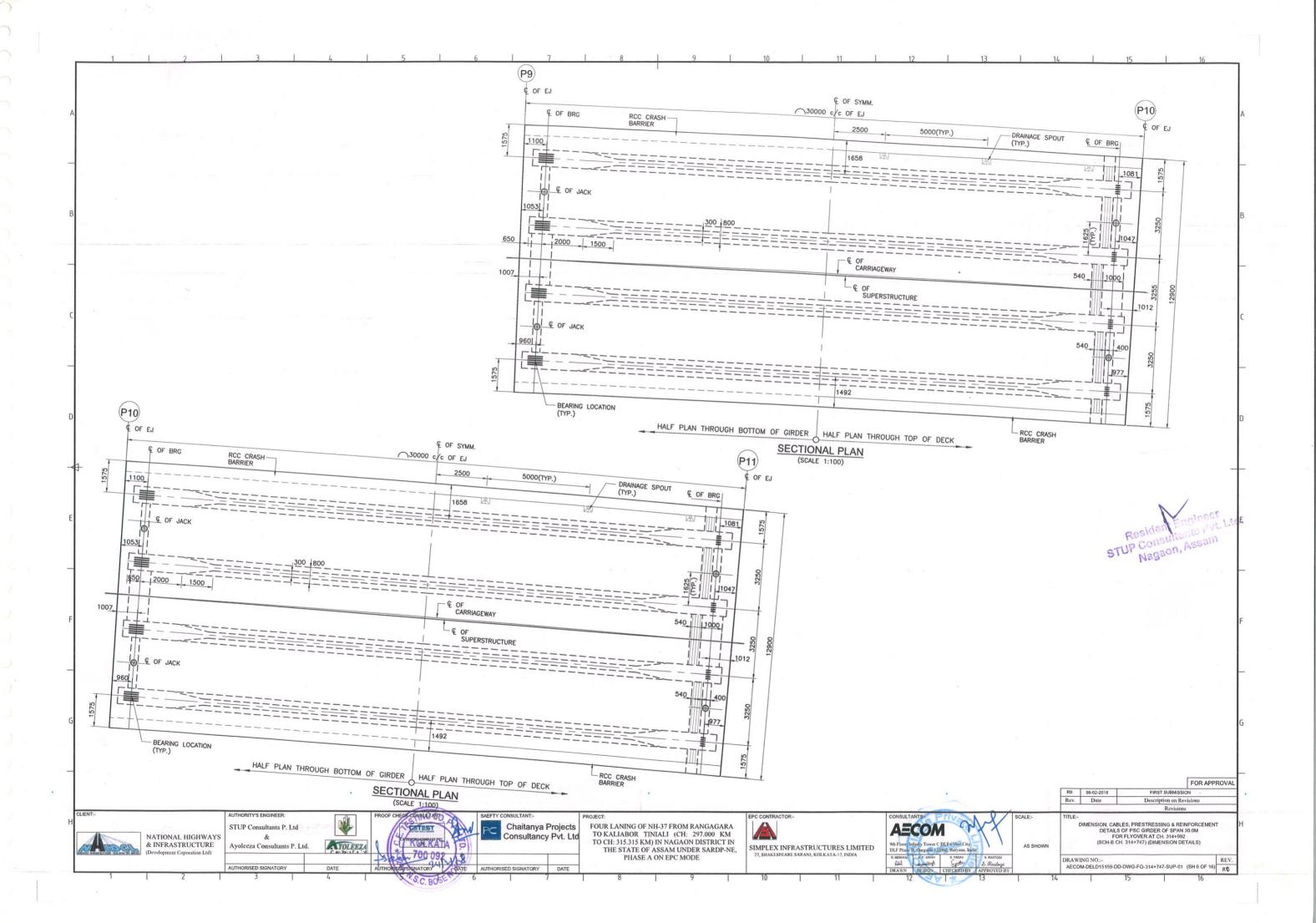


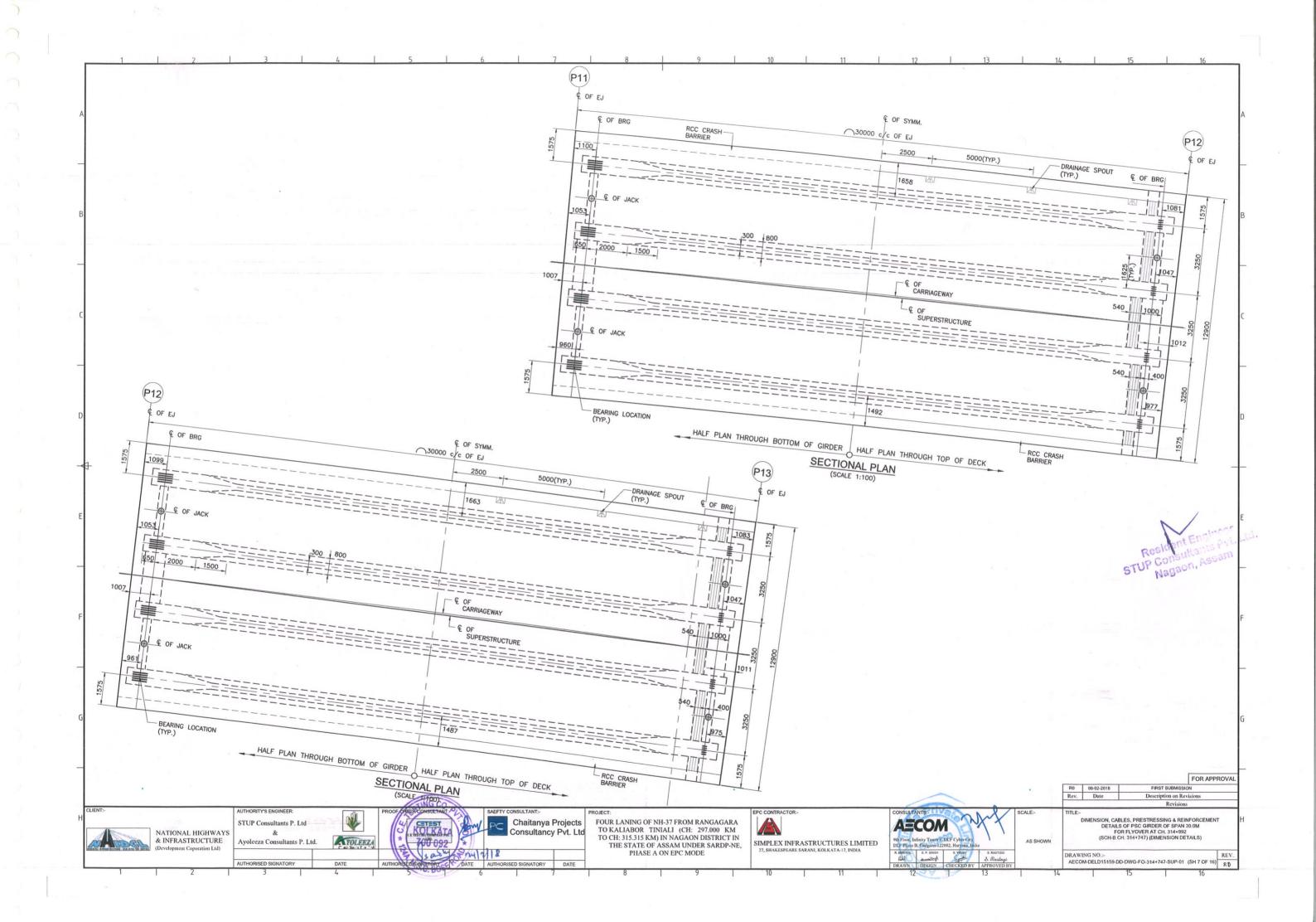


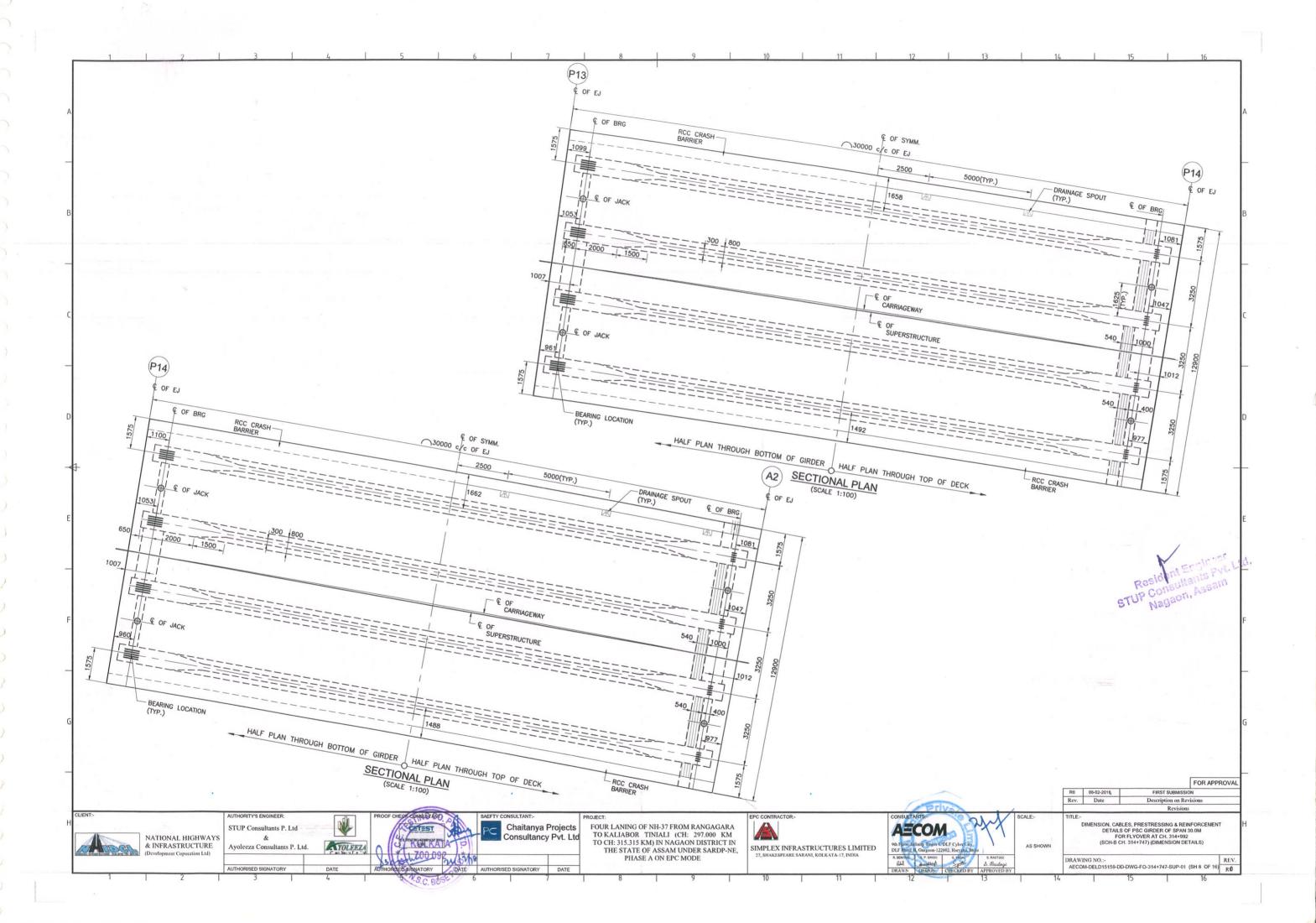


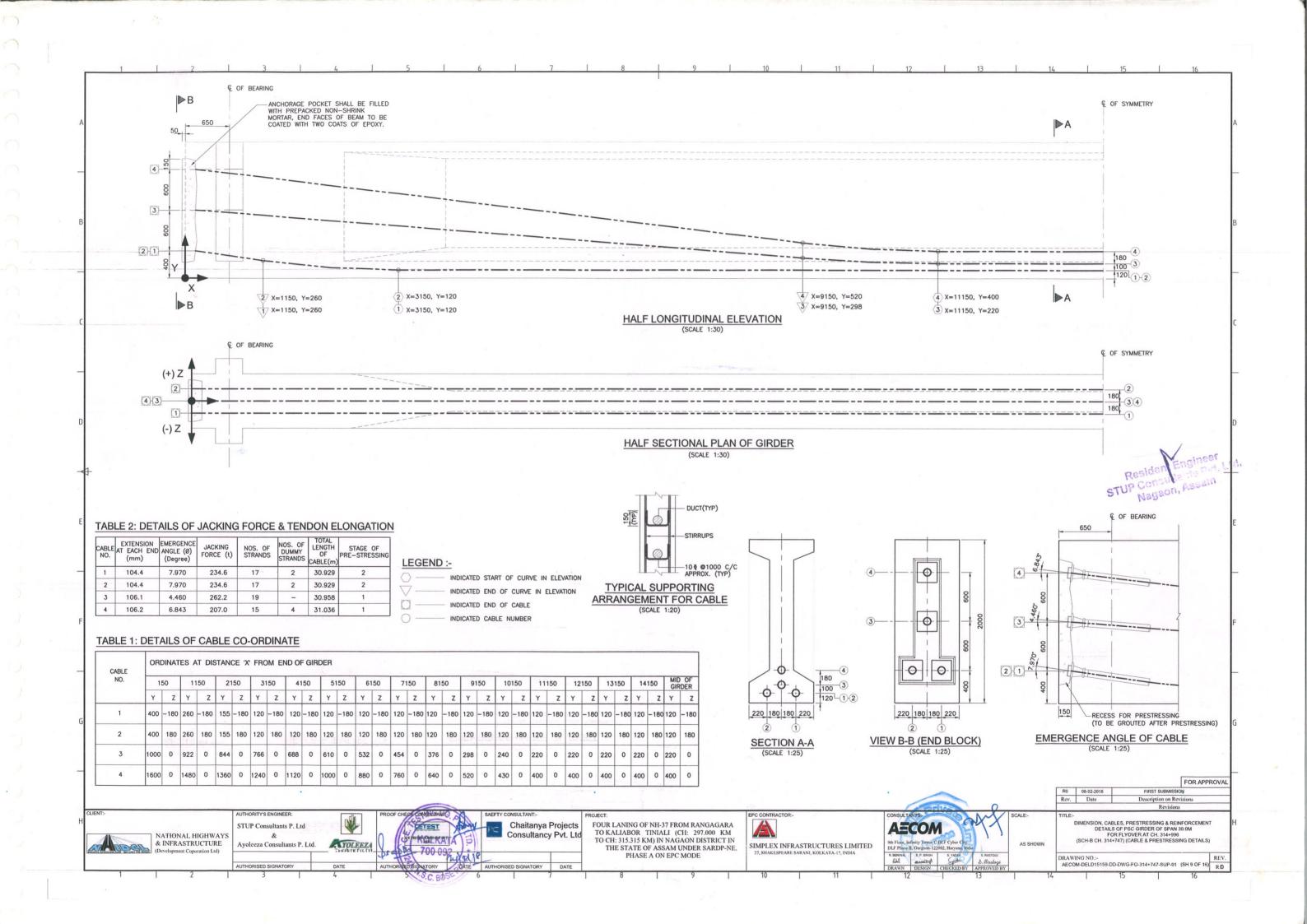


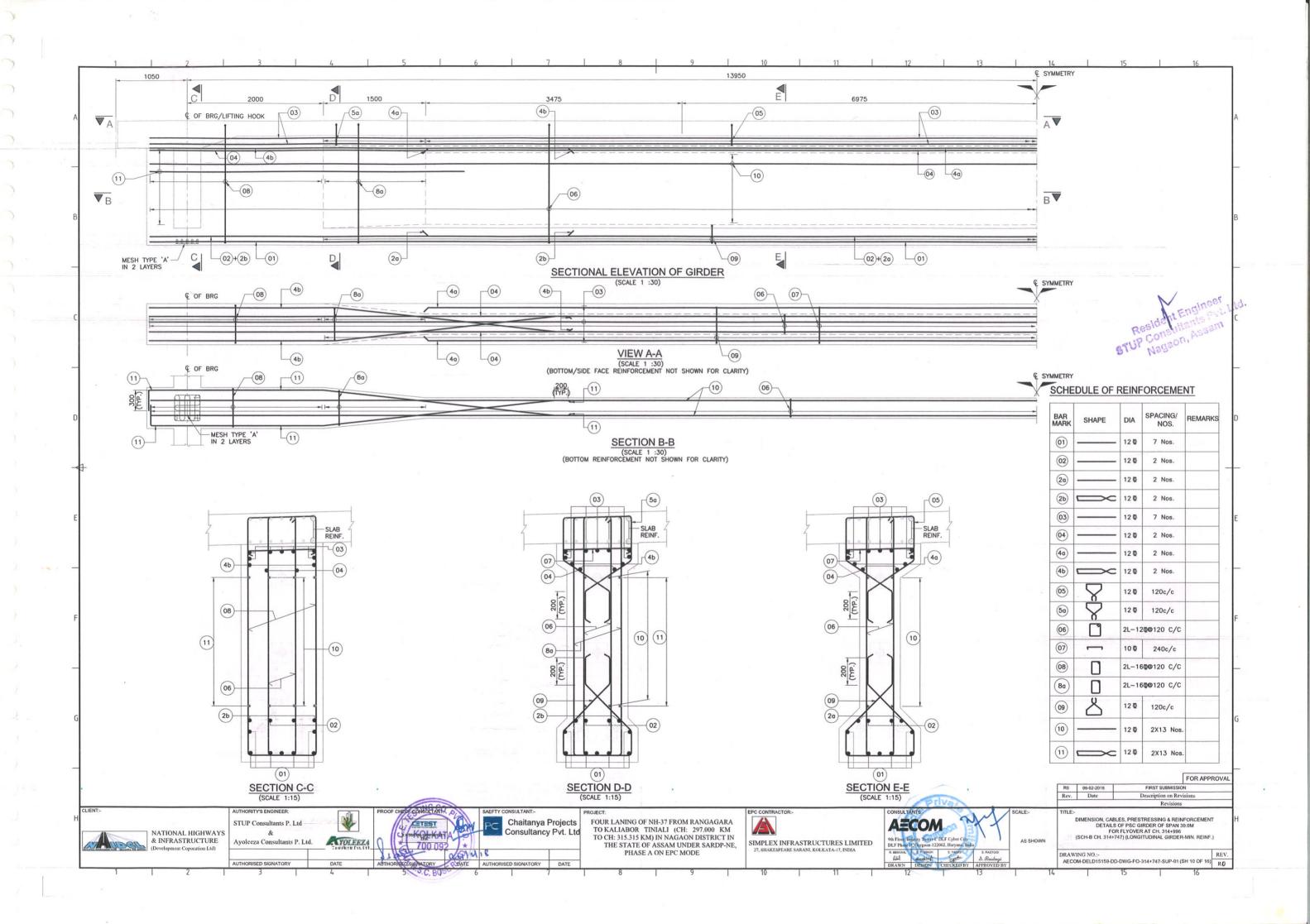


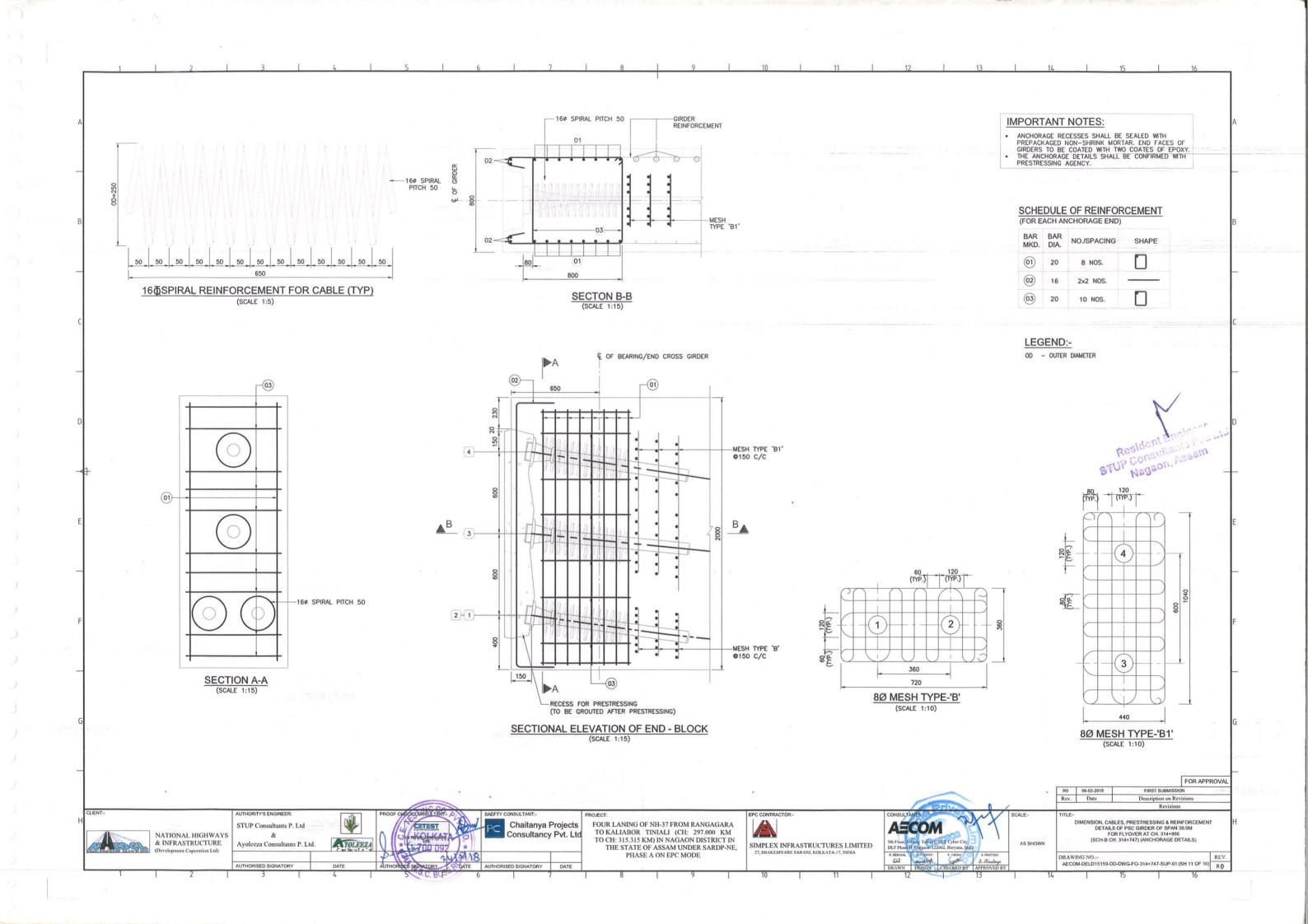












15. SPECIAL NOTE FOR PRESTRESSING
IF THE CALCULATED ELONGATION IS REACHED BEFORE THE CALCULATED
GAUGE PRESSURE IS OBTAINED, CONTINUE TENSIONING TILL ATTAINING
THE CALCULATED GAUGE PRESSURE PROVIDED THE ELONGATION DOES NOT
EXCEED 1.05 TIMES THE CALCULATED ELONGATION. IF THE CALCULATED
ELONGATION HAS NOT BEEN REACHED CONTINUE TENSIONING IN INTERVALS OF 5 kg/sqcm Until the Calculated Elongation is reached provided the Gauge Pressure for some soft exceed 1.05 times the Calculated Gauge Pressure. If the Elongation at 1.05 times the Calculated Gauge Pressure is the Elongation at 1.05 times the Calculated Gauge Pressure is Less than 0.95 times the Calculated Elongation the FOLLOWING MEASURES MUST BE TAKEN : FOLLOWING MEASURES MUST BE MAKEN:

O. RECALIBRATE THE PRESSURE GAUGE

b. CHECK THE CORRECT FUNCTIONING OF THE JACK PUMP AND LEADS

C. DE—TENSION THE CABLE SLIDE IT IN ITS DUCT TO CHECK THAT IT IS NOT BLOCKED BY MORTAR WHICH HAS ENTERED THROUGH THE SHEATHING. RE—TENSION THE CABLE IF FREE. IF THE REQUIRED ELONGATION IS NOT OBTAINED FURTHER FINISHING OPERATION SUCH AS CUTTING OR SEALING

OBTAINED FURTHER FINISHING OPERATION SUCH AS CUTTING OR SEALING SHOULD NOT BE UNDERTAKEN WITHOUT THE APPROVAL OF THE ENGINEER—IN—CHARGE.

16. THE GAUGE PRESSURE FOR PRESTRESSING SHALL BE WORKED OUT PRIOR TO ANY STRESSING OPERATION DULY TAKING IN TO ACCOUNT THE RAM AREA OF THE JACK AND THE JACK EFFICIENCY. THE STRESSING EQUIPMENTS SHALL BE WELL MAINTAINED AND THE CALIBRATION CHARTS SHALL BE AVAILABLE AT SITE.

17. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS

REFERENCE DRAWINGS:

1) GENERAL ARRANGEMENT DRAWING. AECOM-DELD15159-DD-DWG-F0-314+996-GAD-01 (SH1 TO 6)

AECOM-DELD15159-DD-DWG-F0-314+996-SUB-01 (SH1 TO 5)

AECOM-DELD15159-DD-DWG-MISC -01

LEGENDS

FINISHED ROAD LEVEL GROUND LEVEL LEVEL GL. LVL. INVERT LEVEL EXPANSION JOINT

CAST-IN-SITU PORTION

PRECAST PORTION

ON EARTH FACE/BOTTOM FACE

ON OUTER FACE/TOP FACE

DIAMETER MILD STEEL HIGH TENSION

STUP Consults Nagaon, Assam

CONSTRUCTION SEQUENCE OF GIRDERS

AT 'O'TH DAY, GIRDER SHALL BE CASTED ON CASTING BED. STRESSING SHALL BE CARRIED OUT IN TWO STAGES. BOTH THE STAGES SHALL BE ON GROUND (BEFORE PLACING ON ABUTMENT / PIER CAP).

SHALL BE ON GROUND (BEFORE PLACING ON ADDIMENT / FIEL OF).

3. FIRST STAGE PRE—STRESSING:

3.1. CABLE NO. 3 & 4 SHALL BE STRESSED AT 7TH DAY OR WHEN CONCRETE CUBE STRENGTH IS 35MPg. WHICHEVER IS LATER. AFTER THIS STAGE OF STRESSING, THE GIRDER CAN BE LIFTED FROM THE

CASTING BED.

ALL STRANDS OF CABLES SHALL BE STRESSED FROM BOTH ENDS SIMULTANGUSLY. THE RATE OF INCREASE OF STRESS IN THE TENDON AT BOTH ENDS SHALL BE EQUAL. ONLY MULTIPLE JACKS SHALL BE USED FOR STRESSING.

SHALL BE USED FOR STRESSING.

4. SECOND STAGE PRE—STRESSING.

4.1. CABLE NO. 1 & 2 SHALL BE STRESSED AT 28TH DAY OR WHEN CONCRETE CUBE STRENGTH IS 50MPo, WHICHEVER IS LATER.

4.2. STRANDS OF CABLE NO. 1 SHALL BE STRESSED UP TO 50% OF

AFTER STRESSING CABLE NO. 1, CABLE NO. 2 SHALL BE STRESSED UP TO 100% OF JACKING FORCE.

AFTER STRESSING CABLE NO. 2, CABLE NO. 1 SHALL BE STRESSED UP TO 100%

UP TO 100%.

GIRDERS SHALL THEN BE PLACED ON TEMPORARY SUPPORTS ON PIER CAP.

PERMANENT BEARINGS SHALL BE INSTALLED ON PEDESTALS.

WEDGE SHALL BE CAST OVER THE BEARING AS PER RELEVANT WEDGE

DETAILS.

8. TEMPORARY SUPPORT SHALL BE REMOVED SO THAT GIRDER CAN BE PLACED OVER STEEL WEDGE AND PERMANENT BEARINGS.

9. DECK SLAB SHALL BE CAST AFTER 28 DAYS OF CASTING OF GIRDER.

10. CRASH BARRIER/RAILING SHALL BE ERECTED/CAST 28 DAYS AFTER CASTING THE DECK SLAB OR AFTER THE DECK SLAB ATTAINS A STRENGTH OF

40MPa, WHICHEVER IS LATER.

11. WEARING COAT SHALL BE LAID AFTER REMOVAL OF SHUTTERING OF DECK AND CASTING OF CRASH BARRIER/RAILING.

> FOR APPROVA R0 08-02-2018

Rev. Date DIMENSION, CABLES, PRESTRESSING & REINFORCEMENT DETAILS OF PSC GIRDER OF SPAN 30.0M FOR FLYOVER AT CH. 3144-996 (SCH-B CH. 314+747) (NOTES)

SIMPLEX INFRASTRUCTURES LIMITED

AECOM

RAWING NO.:-AECOM-DELD15159-DD-DWG-FO-314+747-SUP-01 (SH 12 OF 16) RD

NATIONAL HIGHWAYS

& INFRASTRUCTURE

YOLEEZA

CETEST HOLKATA MANE

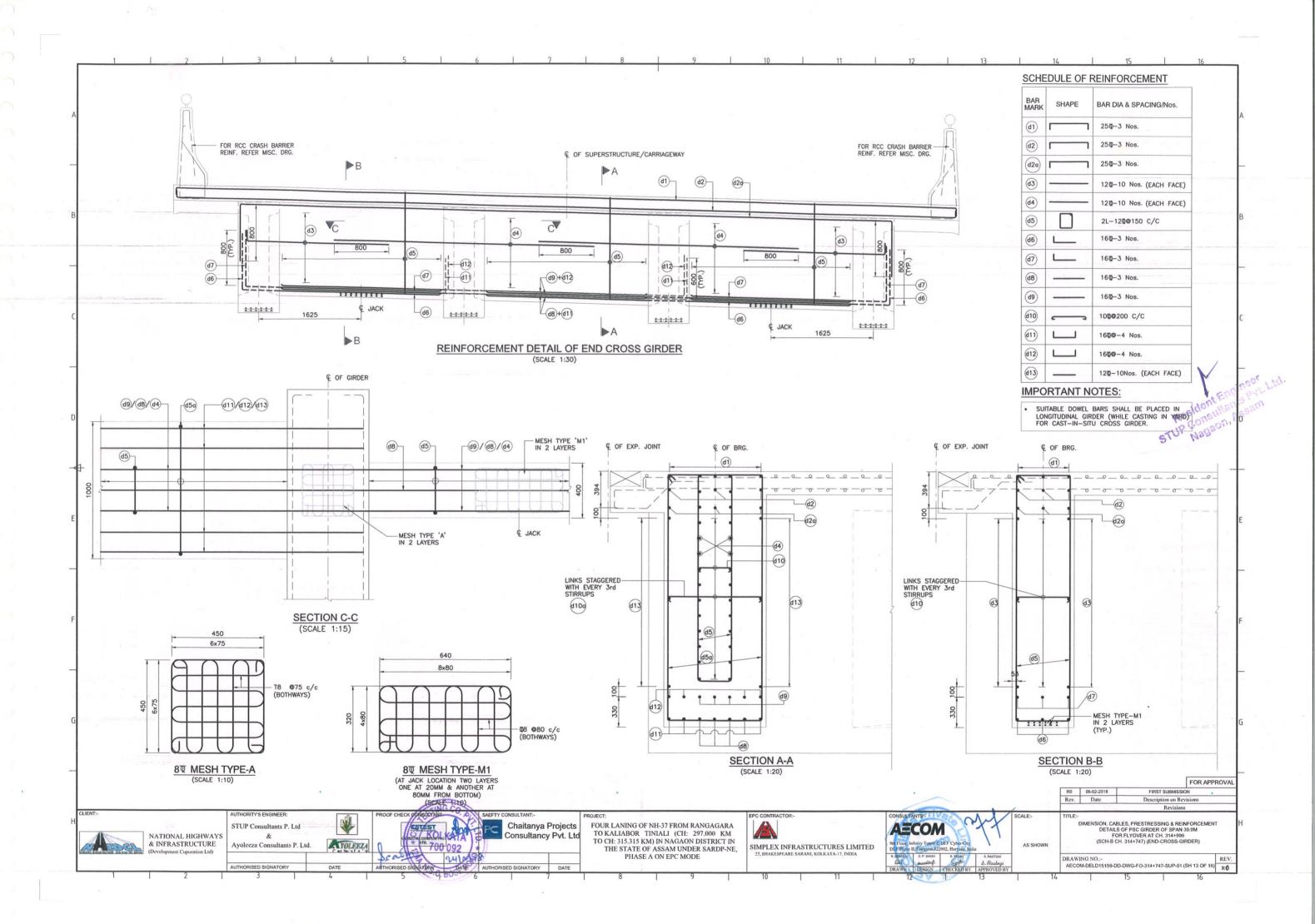
Chaitanya Projects Consultancy Pvt. Ltd

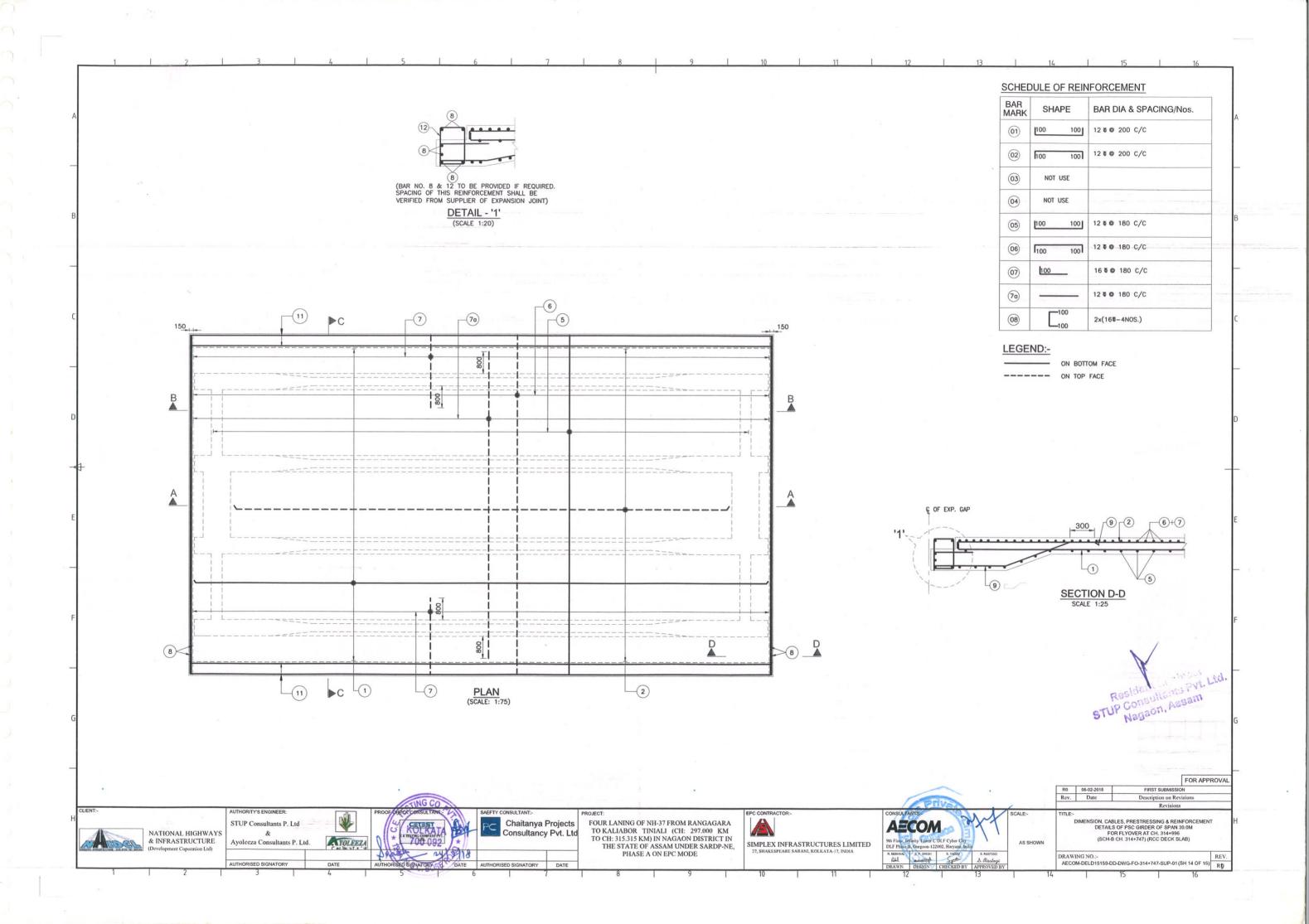
FOUR LANING OF NH-37 FROM RANGAGARA TO KALIABOR TINIALI (CH: 297,000 KM TO CH: 315.315 KM) IN NAGAON DISTRICT IN THE STATE OF ASSAM UNDER SARDP-NE,

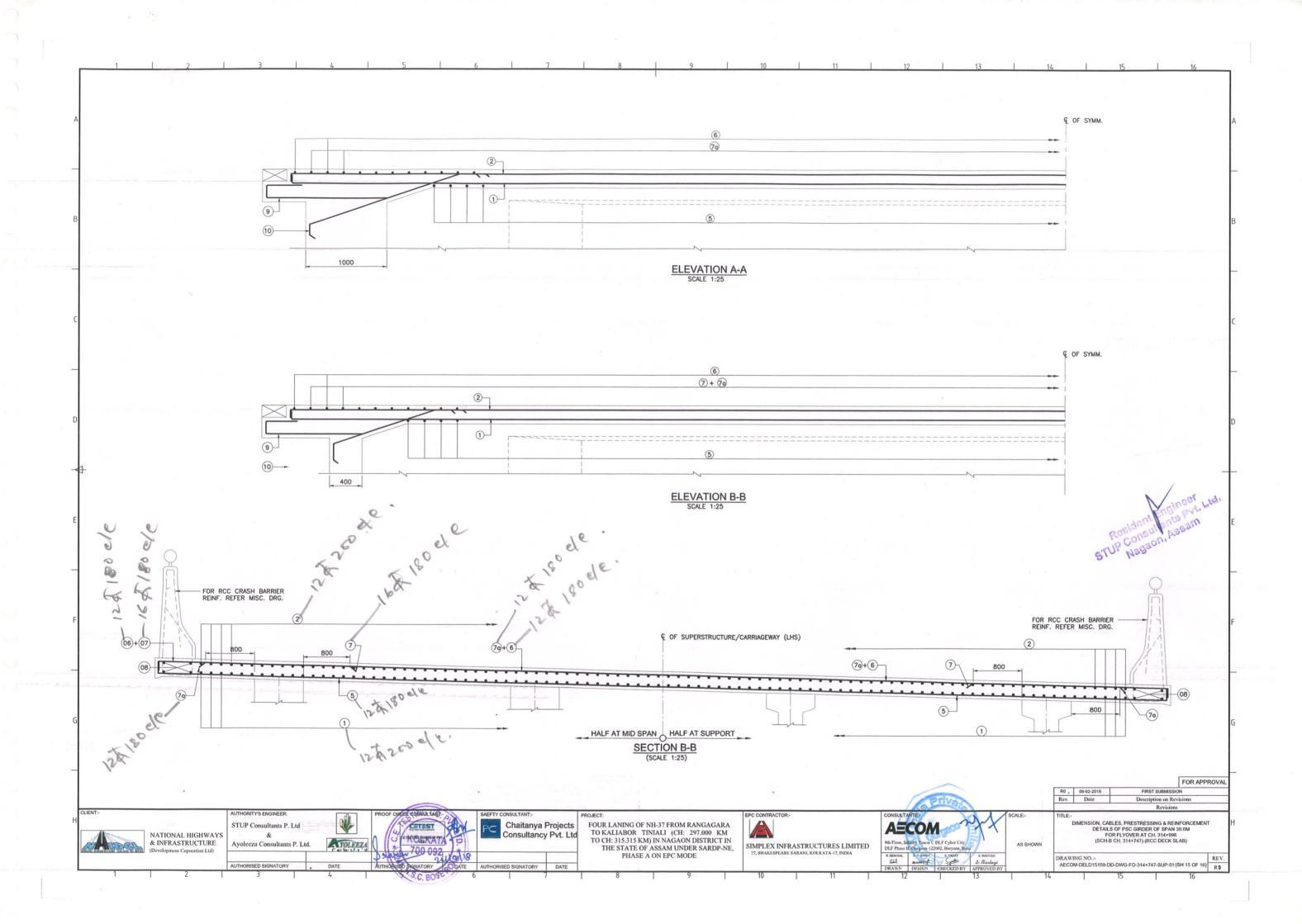
STUP Consultants P. Ltd

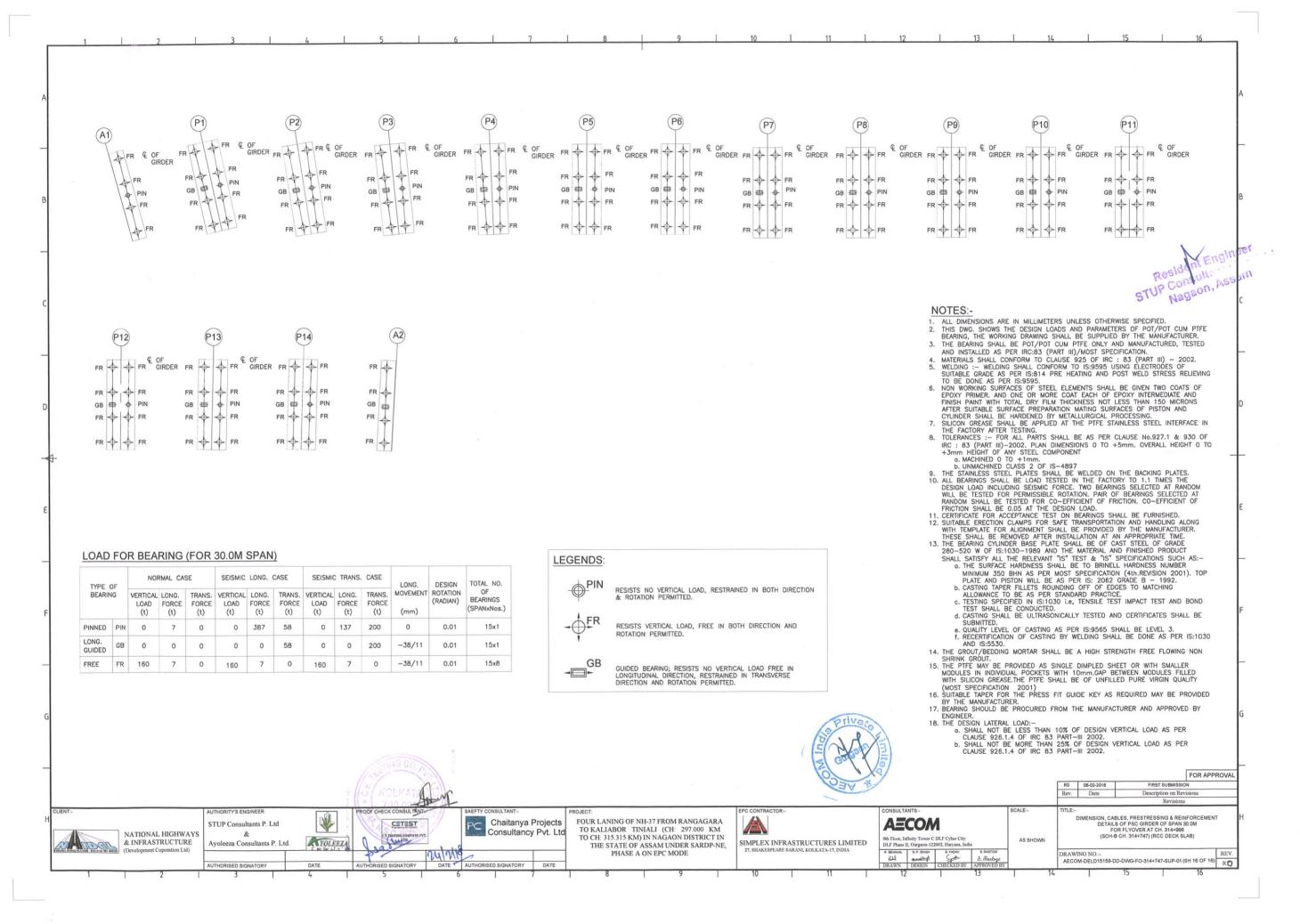
Ayoleeza Consultants P. Ltd.

PHASE A ON EPC MODE









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