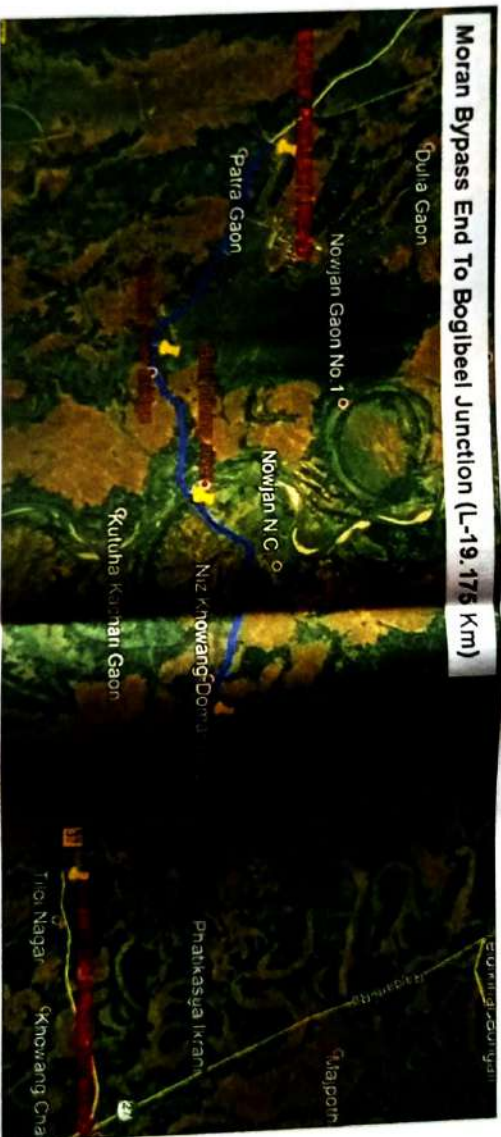




NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION

PROJECT:

FOUR LANING OF NH-37 FROM END OF MORAN BYPASS (KM 562.525) TO
BOGIBEEL JUNCTION NEAR LAPETKETA (KM 581.700) IN THE STATE OF
ASSAM UNDER SARDP-NE, PHASE 'A' ON EPC MODE -BALANCE WORK



Moran Bypass End To Bogibeel Junction (L-19.175 Km)

PLAN & LONGITUDINAL PROFILE

Partha Sankar Debbarh

(From Km. 561+700 to Km. 580+800)

JANUARY-2020

Project Manager
M/S Manaranjan Brahma
Moran Bypass to Bogibeel Junction
(NHDC, 4-Lane Project)

AUTHORITY ENGINEER :



VOYANTS SOLUTIONS
PVT. LTD.

EPC CONTRACTOR:



M/S MANARANJAN BRAHMA
WARD NO. 4 DEPOT ROAD
KOKRAJHAR DIST. KOKRAJHAR
PIN - 783370, ASSAM

SAFETY CONSULTANT:

ARHITECHNO CONSULTANTS
(INDIA) PVT. LTD.

PROOF CONSULTANT:



INDIAN INSTITUTE OF
TECHNOLOGY GUWAHATI
NEAR DOUL GOBINDA ROAD,
AMINGAON, NORTH GUWAHATI,
GUWAHATI, ASSAM, PIN : 781039

SR. NO.	DRAWING NAME	DRAWING NO	SHEET
01	LIST OF DRAWINGS	MB/JOR-DIB/HW/GEN/LIST/01 TO 01	01
02	LEGENDS & ABBREVIATIONS	MB/JOR-DIB/HW/GEN/LEGENDS/01 TO 01	01
03	REFERENCE PILLAR DETAILS	MB/JOR-DIB/HW/GEN/REF. PILLAR/01 TO 02	02
04	HORIZONTAL ALIGNMENT REPORT	MB/JOR-DIB/HW/GEN/HORIZONTAL/01 TO 04	04
05	VERTICAL ALIGNMENT REPORT	MB/JOR-DIB/HW/GEN/VERTICAL/01 TO 02	02
06	TYPICAL CROSS SECTION	MB/JOR-DIB/HW/GEN/TCS/01 TO 06	06
07	TYPICAL CROSS SECTION SCHEDULE	MB/JOR-DIB/HW/GEN/TCS/01 TO 01	01
08	PLAN & LONGITUDINAL PROFILE	MB/JOR-DIB/HW/PPNP/561.700 TO 580.875	40
09	TOLL PLAZA	MB/JOR-DIB/HW/Toll/01 TO 4	4

Project Manager
W/S Manarajin & Jims
Moran Bypass to Bogie Junction
(NH/DCL, 4-Lane Project)

REV. NO.	DATE	DESCRIPTION
R1	02-01-2003	R1 AS PER COMMENT RECEIVED BY ARCHITECT CONSULTANT
CLIENT:  Middel INTERNATIONAL SCHOOL OF DESIGN		
AUTHORITY ENGINEER:  VIGNANI SOLUTIONS PVT. LTD. Team Leader		
EPIC CERTIFICATION:  MS BAWANWALA BOWMAN ARCHITECT & INTERIOR DESIGNER 101, SOUTH ROAD PERI, TAMIL NADU		
SAFETY ENGINEER: NORTHWOOD CONSULTANTS (INDIA) PVT. LTD.		
PROJECT DETAILS:  NCC INSTITUTE OF TECHNOLOGY GUJARAT 101, SOUTH ROAD PERI, TAMIL NADU		
PROJECT: SPECIAL PASSAGE ROAD (NH-37) ROAD LAYOUT OF ROAD FROM ROAD NO. 67 TO ROAD NO. 101, SOUTH ROAD, PERI, TAMIL NADU 101, SOUTH ROAD, PERI, TAMIL NADU 101, SOUTH ROAD, PERI, TAMIL NADU 101, SOUTH ROAD, PERI, TAMIL NADU		
DATE: NOV 2018	DESIGN CHECKED BO	O.P. R.P. SCALE NOT TO SCALE
LIST OF DRAWING		
CREATION DIRECTOR:		
REVISION:		

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
--------	-------------	--------	-------------

☐ ☐ ☐ ☐ ☐ BUILDING, SHOP (P, SP, K, UC) _____ DRAIN _____

PROPOSED CULVERT

COVER DRAIN

EXISTING & PROPOSED CULVERT

RETAINING WALL

 PROPOSED BRIDGE

 BREAST WALL

EXISTING BRIDGE	TOE WALL

TELEPHONE POLE

HAND PUMP

 ELECTRIC POLE TOILET

TEMPORARY BENCH MARK

EXISTING CARRIAGEWAY

SIDE ROAD REFERENCE PILLAR (TBM)

GPS
GPS PILLAR

	TRANSFORMER		PIPE CULVERT
---	-------------	---	--------------

ALOWME IER POSI _____ PROPOSED CARRIAGEWAY EDGE

SCHOOL	PROPOSED SERVICE ROAD
--------	-----------------------

INNOVATIONEN

THE UNIVERSITY OF CHICAGO

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STATION	WED. TANGENT
0	

TEMA 1

SYMBOL	DESCRIPTION
--------	-------------

Δ TOTAL DEVIATION ANGLE OF CURVE

Ts	TANGENT LENGTH
----	----------------

E8	APEX DISTANCE
1	1

e	SUPER ELEVATION
0.00	0.00
0.01	0.01
0.02	0.02
0.03	0.03
0.04	0.04
0.05	0.05
0.06	0.06
0.07	0.07
0.08	0.08
0.09	0.09
0.10	0.10
0.11	0.11
0.12	0.12
0.13	0.13
0.14	0.14
0.15	0.15
0.16	0.16
0.17	0.17
0.18	0.18
0.19	0.19
0.20	0.20
0.21	0.21
0.22	0.22
0.23	0.23
0.24	0.24
0.25	0.25
0.26	0.26
0.27	0.27
0.28	0.28
0.29	0.29
0.30	0.30
0.31	0.31
0.32	0.32
0.33	0.33
0.34	0.34
0.35	0.35
0.36	0.36
0.37	0.37
0.38	0.38
0.39	0.39
0.40	0.40
0.41	0.41
0.42	0.42
0.43	0.43
0.44	0.44
0.45	0.45
0.46	0.46
0.47	0.47
0.48	0.48
0.49	0.49
0.50	0.50
0.51	0.51
0.52	0.52
0.53	0.53
0.54	0.54
0.55	0.55
0.56	0.56
0.57	0.57
0.58	0.58
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0.86	0.86
0.87	0.87
0.88	0.88
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0.91	0.91
0.92	0.92
0.93	0.93
0.94	0.94
0.95	0.95
0.96	0.96
0.97	0.97
0.98	0.98
0.99	0.99
1.00	1.00

Δ_s DEVIATION ANGLE OF TRANSITION CURVE

ΔC	DEVIATION OR CENTRAL ANGLE OF CIRCULAR CURVE
TOTAL LENGTH OF CURVE	

S	SHIFT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
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97	97
98	98
99	99
100	100

PT	POINT OF TANGENCY
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19	POINT OF CHANGE FROM LANGEN I TO SPIRAL
20	

CS **POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL**

11. INVERT LEVEL OF CULVERT

LENGTH OF VALLEY CURVE

LSC	LENGTH OF SUMMIT CURVE
1	1.0
2	1.0
3	1.0
4	1.0
5	1.0
6	1.0
7	1.0
8	1.0
9	1.0
10	1.0
11	1.0
12	1.0
13	1.0
14	1.0
15	1.0
16	1.0
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18	1.0
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98	1.0
99	1.0
100	1.0

Journal of Management Inquiry 22(3)

DESIGNATION	ORIGINATOR	DATE
	REVISION	DATE
TITLE: LEGENDS & ABBREVIATIONS		

DATE: NOV 2018

ORG. NO: NBJOR-DIR-PMICE

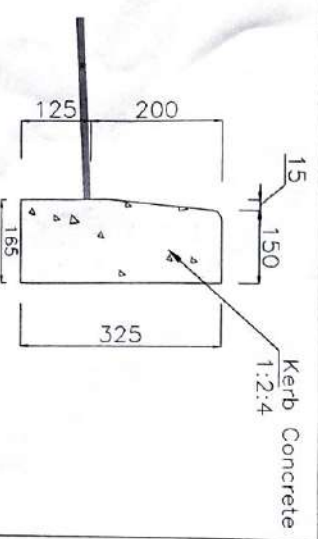
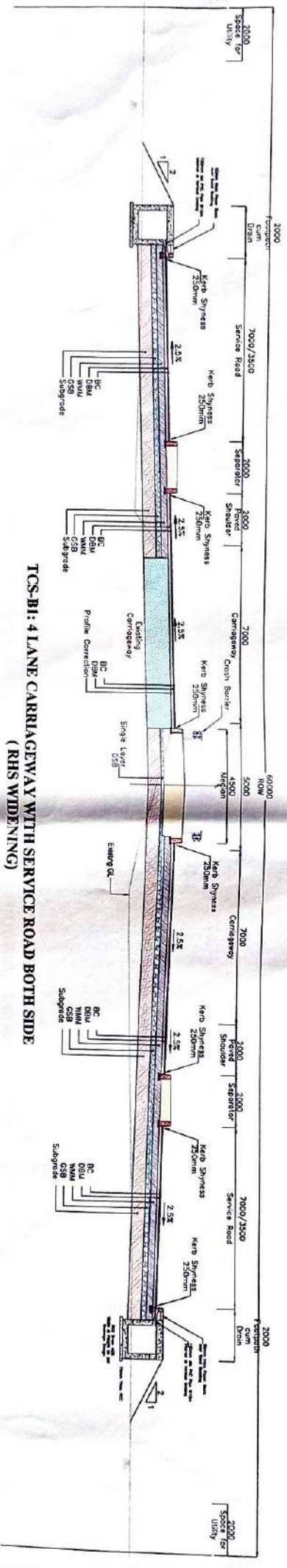
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TYPICAL CROSS SECTION



Changfan,
Safety Consultant
ARX Techno Consultants (I) Pte. Ltd
Brunei Darussalam

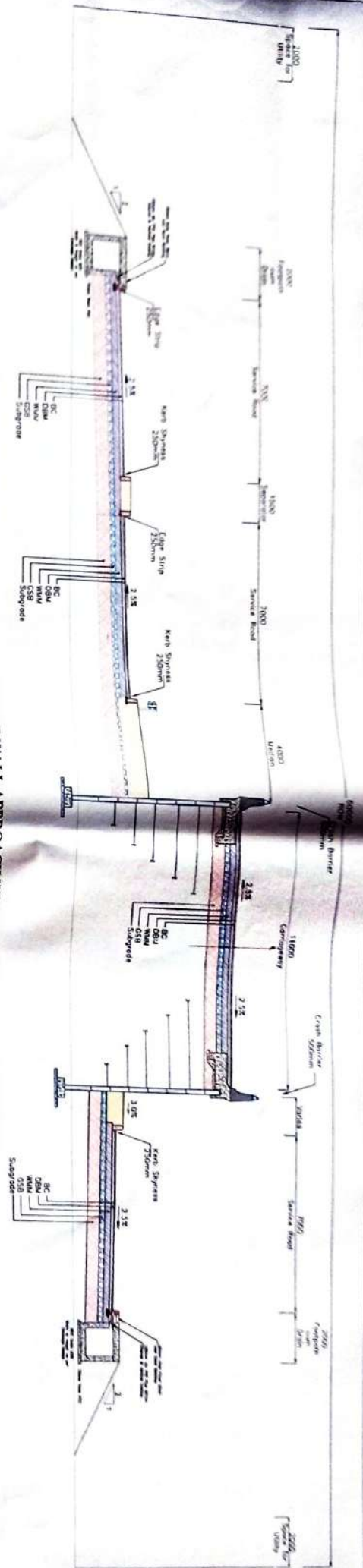
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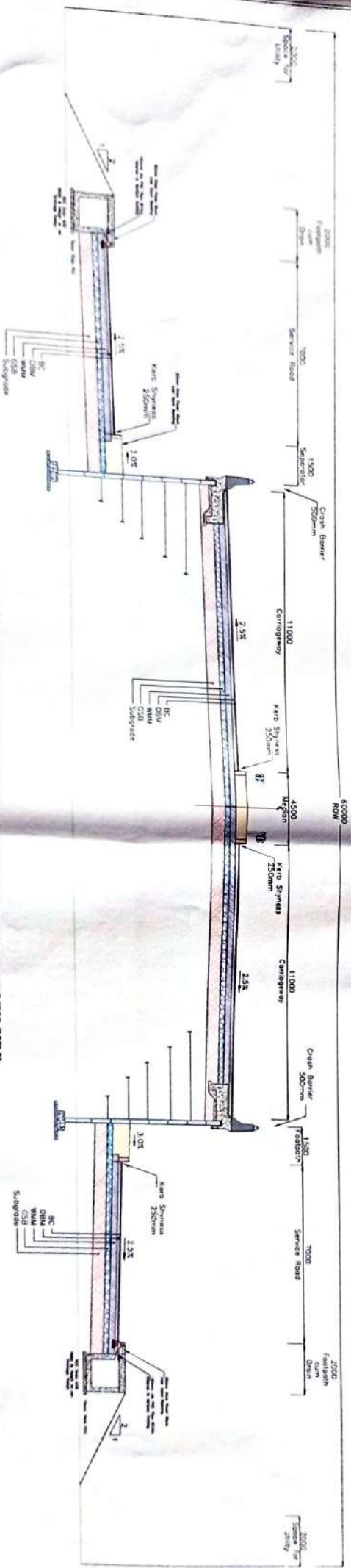
Scale: 1:50 Unit: mm		Project: ROADWAY DESIGN Client: M/S. MANJUNATHI BUILDERS Location: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Contractor: M/S. MANJUNATHI BUILDERS Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Manager: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Engineer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Designer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Checker: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Approver: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH	
Scale: 1:50 Unit: mm		Project: ROADWAY DESIGN Client: M/S. MANJUNATHI BUILDERS Location: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Contractor: M/S. MANJUNATHI BUILDERS Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Manager: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Engineer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Designer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Checker: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Approver: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH	

Scale: 1:50 Unit: mm		Project: ROADWAY DESIGN Client: M/S. MANJUNATHI BUILDERS Location: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Contractor: M/S. MANJUNATHI BUILDERS Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Manager: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Engineer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Designer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Checker: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Approver: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH	
Scale: 1:50 Unit: mm		Project: ROADWAY DESIGN Client: M/S. MANJUNATHI BUILDERS Location: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Contractor: M/S. MANJUNATHI BUILDERS Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Manager: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Engineer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Designer: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Checker: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH		Project Approver: M/S. Manjunath Builders Address: ROAD NO. 4, DEPT. ROAD, KODAKKANAL, DIST. KODAKKANAL, PIN: 753101, ANDHRA PRADESH	

TCS-D1: PROPOSED 2 LANE FLYOVER WITH RE WALL APPROACH WITH SERVICE ROAD ON BOTH SIDE



TCS-D: RE WALL VIP & PUP APPROACH WITH SERVICE ROAD ON BOTH SIDE



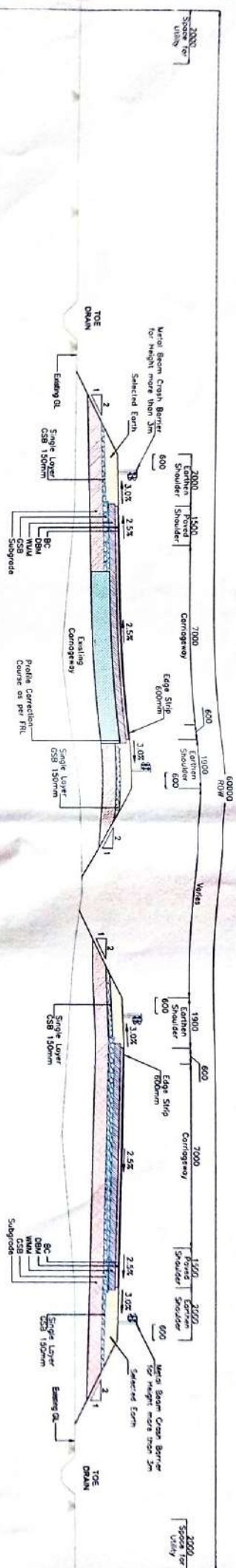
Project Manager
M/S. Sankar & Associates
14/10/2020
Muzammar Hussain
(N-DC, 4 Lane Project)

Assistant Project Manager
M/S. Sankar & Associates
14/10/2020
Muzammar Hussain
(N-DC, 4 Lane Project)

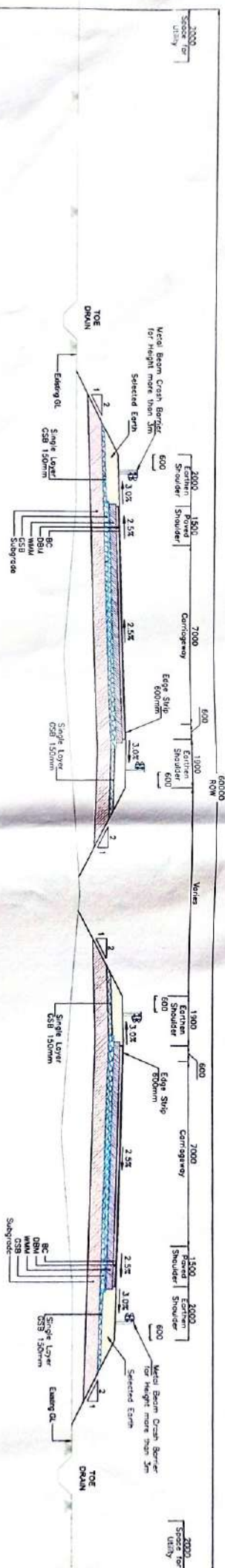
Shafiq
Safety Consultant
ABN Techno Consultants (P) Ltd
Bhutanagar

NOTE:
a) All dimensions are in mm unless specified
b) Footprint Layer thickness as per design
c) Either low drain side shall be 1 (2%) side with 500mm beam both side

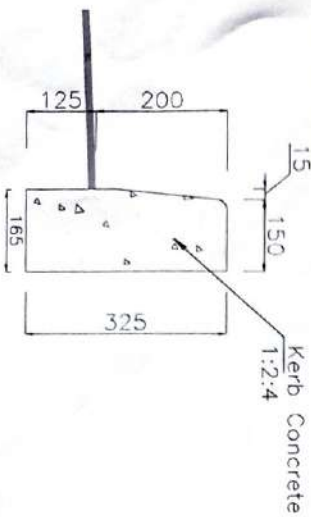
CLIENT	PROJECT	LOCATION	PROJECT CONSULTANT	SCALE	DATE	REVISION
AS	MUSKAT BRIDGE ROAD (2) (3)	FOUR LANE OF 16+31.7 METER WIDE OF NORTH SIDE AND TO BRIDGE 1.25 METER WIDE OF SOUTH SIDE IN THE STATE OF ASHAB QATAR BRIDGE ROAD PROJECT. EPC MODE. BRIDGE ROAD.	U/S. MAHMOUD AL-SAYED 14/10/2020 Muzammar Hussain (N-DC, 4 Lane Project)	1:100	JUN 2020	REVISION RD
National Highway & Infrastructure Corporation Limited			ABN Techno Consultants (P) Ltd 14/10/2020 Muzammar Hussain (N-DC, 4 Lane Project)			



TCS-E: 4 LANE DIVIDED CARRIAGEWAY WITH DEPRESSED MEDIAN RHS SIDE WIDENING



TCS-E1: 4 LANE NEW CONSTRUCTION WITH DEPRESSED MEDIAN



Typical Kerb Details

NOTE:
a) All dimensions are in mm unless specified
b) Pavement Layer thickness as per design
c) Either low side shall be 1:2.5% slope with 500mm berm both side

Charan
Safety Consultant
ABN Techno Consultants (P) Ltd
Bhubaneswar

Scale: NTS PREPARED: [Signature] DESIGNED: [Signature] CHECKED: [Signature] APPROVED: [Signature] DATE: JAN 2020 REVISION: 00 TITLE: TYPICAL CROSS SECTION	PROJECT: ROAD BRIDGE ROAD BRIDGE CLIENT: ROAD BRIDGE ROAD BRIDGE DESIGNER: ROAD BRIDGE ROAD BRIDGE CONTRACTOR: ROAD BRIDGE ROAD BRIDGE	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM	PROJECT CONSULTANT W/S: LAKSHMAN BHARUA W/S: NO. 4, DEPT. ROAD KORAPUT, DIST: KORAPUT Pin - 753101, ASSAM
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PLAN AND LONGITUDINAL PROFILE

Proposed C.I. No.	Proposed C.I. No.
Proposed C.I. No.	Proposed C.I. No.

LEGENDS PROFILE

Proposed FRI Ltd

1



Curve No. 2, 1000 ft. (2000 ft. x 2000 ft.)			
(1000 ft. x 2000 ft.)			
11	1000 ft.	10	1000 ft.
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96	1000 ft.	95	1000 ft.
97	1000 ft.	96	1000 ft.
98	1000 ft.	97	1000 ft.
99	1000 ft.	98	1000 ft.

Checked by _____

Chaudhary
Safety Consultants
APOL Techno Consultants (P) Pvt. Ltd.
Bhubaneswar

Learn More

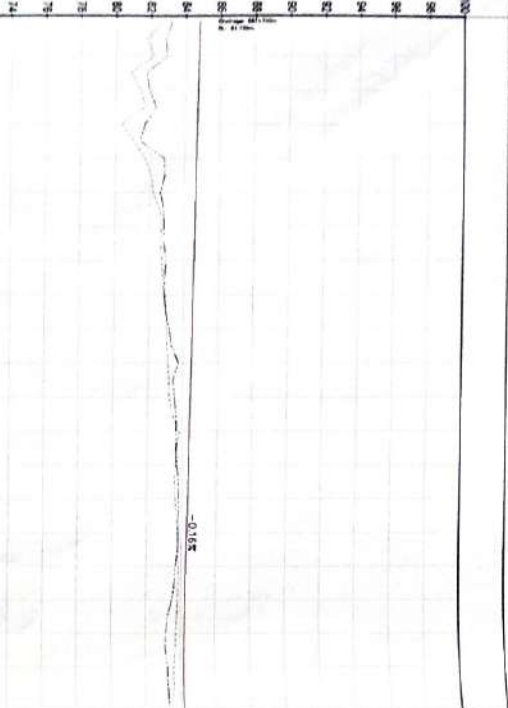
TO DIBRUGARH

TO JOURNAL

LEGENDS PROFILE

Proposed CI L&E	_____
Proposed RI R&E	_____
Prior C&G/C&M	_____
Paved Shoulder	_____
Erosion Shoulder	_____
Pony Drain curb	_____
Bicapped	_____
Proposed Saw	_____
Existing Road	_____

Proposed FRI L&E	_____
Proposed FRI R&E	_____
O&I Erosion L&E	_____
O&I Erosion R&E	_____

[illegible]

Project Manager:
WIS Maharranjan Ghosh
Moran Express to Bogdai Junction
(NH-102, 4-Lane Project)

ASSISTANT PROFESSOR / DEPARTMENT OF
ECONOMICS
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FAX: 415/495-1500
E-MAIL: chris@econ.berkeley.edu
WWW: <http://econ.berkeley.edu/~chris>

Chandru
Safety Consultant
ARV Techno Consultants (I) Pvt Ltd
Bhubaneswar

Checked & Vetted

PH-005 CONSULTA

NOT TO BE COMPLETED

ENGINEERING

SCALE:

PLAN AND PROFILE

VERTICAL -1:20

FOR 561+700 TO 567+000

HORIZONTAL -1;

add: 800.828.2222 ext. 1000

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398</
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PREPARED	DESIGNED
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DATE 07/07/2020 REVIEWED

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P.G	MKD
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NO, NHDQ, NBR, PAA, PGE

100

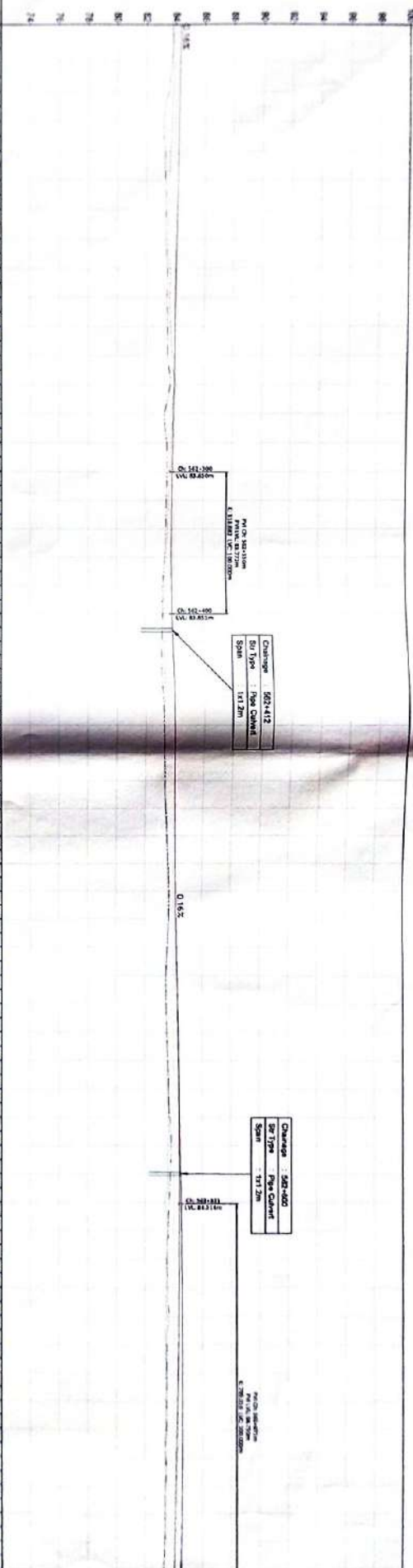
To DISRUPT

Proposed PRL Rate	
Proposed PRL Rate	
Old Below LNE	
Old Below RAE	

Project Manager
M/S Manarjain & Co's
Modern Bypass to Bop-Bop Junction
(NH-10CL, 4-Lane Project)

Assistant Professor
Department of
Biology
Indiana University
Bloomington,
Indiana 47405-1306
USA
Tel.: +1 317 859 2100
Fax: +1 317 859 2100
E-mail: jkelly@indiana.edu

Chandran
Safety Consultants
ARX Techno Consultants (I) Pvt. Ltd.
Bhubaneswar



PROJECT	DATE	REVISION	DESCRIPTION
VERTICAL ALIGNMENT Vertical Alignment LMC Horizontal Alignment LMC Super-elevation (E) RMC Existing Lane (m) Inside (m) Vertical Alignment RMC Horizontal Alignment RMC Super-elevation (E) RMC Existing Lane (m) Inside (m)	2020	1	Initial Design
	2020	2	Revised Design
	2020	3	Final Design
	2020	4	As-Built
	2020	5	As-Built
	2020	6	As-Built
	2020	7	As-Built
	2020	8	As-Built
	2020	9	As-Built
	2020	10	As-Built
PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE PLAN AND PROFILE	2020	1	Initial Design
	2020	2	Revised Design
	2020	3	Final Design
	2020	4	As-Built
	2020	5	As-Built
	2020	6	As-Built
	2020	7	As-Built
	2020	8	As-Built
	2020	9	As-Built
	2020	10	As-Built

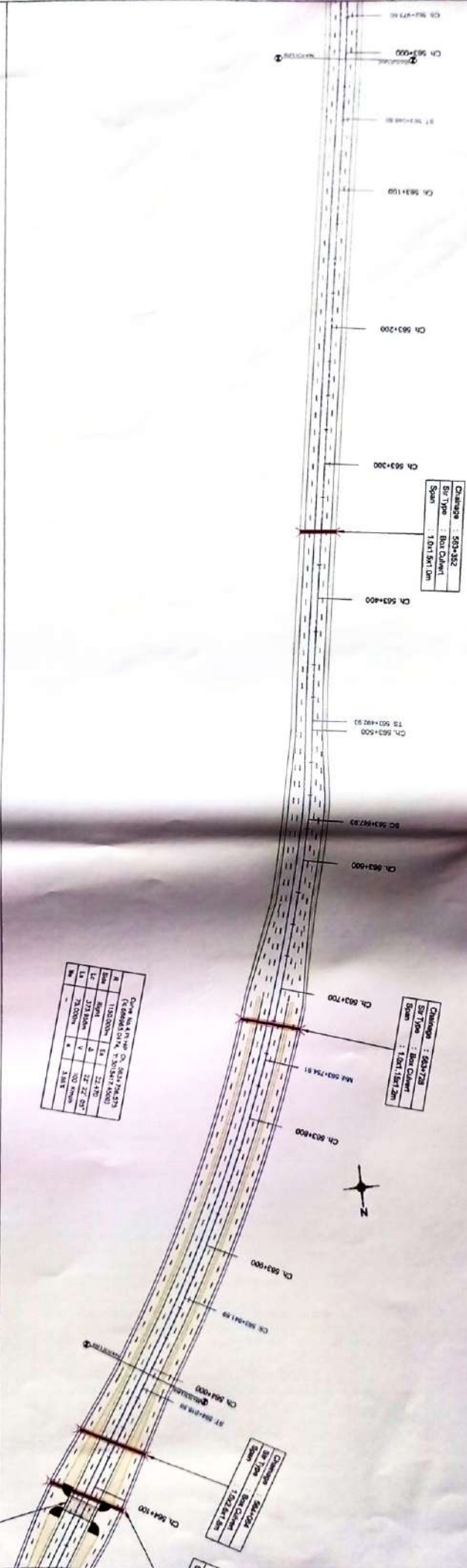
To JORHAT

PLEASE REFER PROFILE ON THE NEXT PAGE

T. SIMONICARD

LEGENDS PROFILE

Proposed C1 L&M	_____
Proposed C1 R&M	_____
Jobs Contingency	_____
Fixed Shoulder	_____
Barren Shoulder	_____
High Drain can	_____
lowquash	_____
Proposed Run	_____
Flowing Road	_____
Proposed F&L L&M	_____
Proposed F&L R&M	_____
Out Below L&M	_____
Out Below R&M	_____

[illegible][illegible]

TO DIARUGARH

TO DIARRUGARH

100



Changpin
Safety Valve
ABQ Techno Consultants (I) Pvt. Ltd
Bhubaneswar

PLAN AND PROFILE
000 TO KM 565+000
REVISION: R0
C:\MER\PLAN\SSA

↑
10 JORHAT

Paula Smeltz Reichart
Project Manager
WIS Intervention Gr. 1-4
Moran Press to Bog (new June 73)
(NHIDCL, 4-Lane Project)



Thandapani
Safety Consultants (I) Pvt Ltd
APOL Techno Consultants
Bhubaneswar

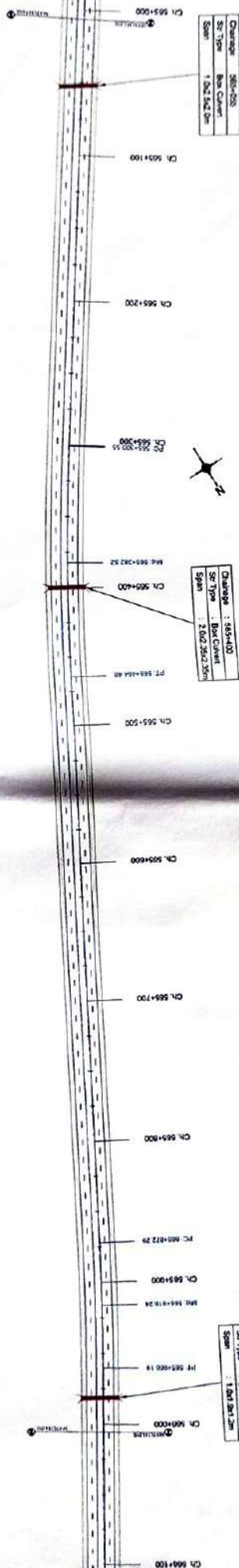
Finished Road Level (UfE)(m)	Existing Level (m) below (UfE) (m)	Vertical Alignment UfE	Horizontal Alignment UfE	Super-elevation (X) UfE	Finished Road Level (UfE)(m)	Existing Level (m) below (UfE) (m)	Vertical Alignment UfE	Horizontal Alignment UfE	Super-elevation (X) UfE
498.98	498.609				498.98	498.609			
498.98	498.951				498.98	498.951			
498.98	498.224				498.98	498.224			
498.98	498.099				498.98	498.099			
498.98	498.335				498.98	498.335			
498.98	498.532				498.98	498.532			
498.98	498.587				498.98	498.587			
498.98	498.687				498.98	498.687			
498.98	498.734				498.98	498.734			
498.98	498.737				498.98	498.737			
498.98	498.726				498.98	498.726			
498.98	498.702				498.98	498.702			
498.98	498.702				498.98	498.702			
498.98	498.685				498.98	498.685			
498.98	498.614				498.98	498.614			
498.98	498.549				498.98	498.549			
498.98	498.471				498.98	498.471			
498.98	498.380				498.98	498.380			
498.98	498.274				498.98	498.274			
498.98	498.156				498.98	498.156			
498.98	498.028				498.98	498.028			
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498.98	497.720				498.98	497.720			
498.98	497.552				498.98	497.552			
498.98	497.380				498.98	497.380			
498.98	497.230				498.98	497.230			
498.98	497.080				498.98	497.080			
498.98	496.920				498.98	496.920			
498.98	496.760				498.98	496.760			
498.98	496.600				498.98	496.600			
498.98	496.440				498.98	496.440			
498.98	496.280				498.98	496.280			
498.98	496.120				498.98	496.120			
498.98	495.960				498.98	495.960			
498.98	495.800				498.98	495.800			
498.98	495.640				498.98	495.640			
498.98	495.480				498.98	495.480			
498.98	495.320				498.98	495.320			
498.98	495.160				498.98	495.160			
498.98	495.000				498.98	495.000			
498.98	494.840				498.98	494.840			
498.98	494.680				498.98	494.680			
498.98	494.520				498.98	494.520			
498.98	494.360				498.98	494.360			
498.98	494.200				498.98	494.200			
498.98									

LEGENDS PLAN

Proposed C/L LANE
 Proposed C/L R&B
 Prop. Carriageway
 Pavement Shoulder
 Earthen Shoulder
 Prop. Lane cam
 Footpath
 Proposed Sewer
 Existing Road

LEGENDS PROFILE

Proposed F&L LANE
 Proposed F&L R&B
 OC/L Below LANE
 OC/L Below R&B



Curve No.	Stationing	Radius (m)	Length (m)	Chord Length (m)	Offset (m)
1	565+000 to 565+200	2000	200.00	199.98	0.02
2	565+200 to 565+400	2000	200.00	199.98	0.02
3	565+400 to 565+600	2000	200.00	199.98	0.02
4	565+600 to 565+800	2000	200.00	199.98	0.02
5	565+800 to 565+1000	2000	200.00	199.98	0.02

Curve No.	Stationing	Radius (m)	Length (m)	Chord Length (m)	Offset (m)
1	565+000 to 565+200	2000	200.00	199.98	0.02
2	565+200 to 565+400	2000	200.00	199.98	0.02
3	565+400 to 565+600	2000	200.00	199.98	0.02
4	565+600 to 565+800	2000	200.00	199.98	0.02
5	565+800 to 565+1000	2000	200.00	199.98	0.02

Prof. Sanku Borah
 Project Manager
 M/S. Manoj Kumar Borah & Co.
 (Civil, Electrical & Mechanical)

Chaitanya Borah
 Assistant Engineer
 Department of Public Works
 Jorhat

Chaitanya Borah
 Safety Consultant (I) Pvt. Ltd.
 Assam

PROJECT	CLIENT	CONTRACT	PROJ. CONSULTANT	SAT. CONSULTANT	AUTHORITY ENGINEER	SCALE	PLAN AND PROFILE
ROAD LANE (PHASE II) FROM E/O OF MOUNTAIN ROAD TO THE STATE OF ASSAM UNDER SURVEY. PHASE II OF E/O WORK. SURVEY WORK.	Assam Highway Development Corporation Limited	U/P. ROAD LANE, PHASE II, FROM E/O OF MOUNTAIN ROAD TO THE STATE OF ASSAM UNDER SURVEY. PHASE II OF E/O WORK. SURVEY WORK.	INDIAN INSTITUTE OF TECHNOLOGY, Kharagpur, West Bengal, India	AMRITTECHNO CONSULTANTS (INDIA) PVT. LTD. N-3/2, IFC, KALKAJI, NEW DELHI, INDIA	VOYANTIS SOLUTIONS PVT. LTD. Team Lead: Mr. Sanku Borah, Team Members: Mr. Chaitanya Borah, Mr. Sanku Borah, Mr. Chaitanya Borah	VERTICAL - 1:200 HORIZONTAL - 1:2000	PLAN AND PROFILE KX/SS/400 TO KX/SS/400 REVISION: R0 DATE: JAN 2020 DRG. NO. NHDC/NER/P&P/4661

DATE	REVISION
01/01/2020	R0

TO DIBRUGARH

TO DIBRUGARH

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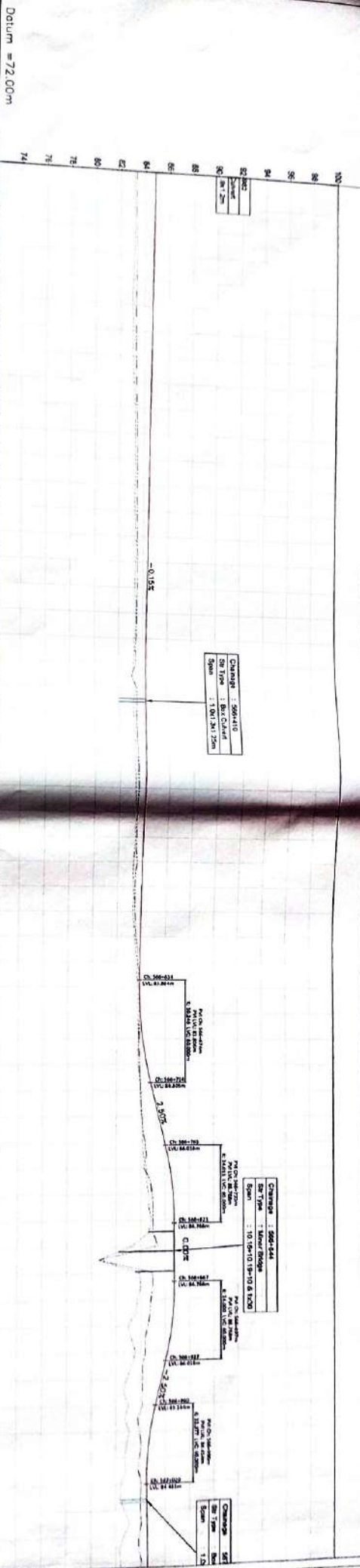
LEGENDS PROFILE

OGL Below RATE

Project Manager
M/S. Maheshwari & Co. Pvt. Ltd.
Moran Bypass to Boidhat Junction
(NH/DCL, 4-Lane Project)

Assistant Professor of Chemistry
 Department of Chemistry
 Indiana University
 131 Chemistry Building
 Bloomington, Indiana 47405-1311
 Telephone: 317/335-3229
 Fax: 317/335-3229
 E-mail: chris@chem.indiana.edu
 C. H. & H. H.

Shardha
Safety Consultants (I) Pvt. Ltd.
ARJ Techno Consultants
Gurgaon



Charge	: 566+410
Size Type	: Box Cuff
Span	: 1 Out, 3in, 25cm

Chairs	: 500+244
Seat Type	: Werner Bridge
Span	: 10.16+10.19+10.6+20

Change	567
the 1 st year	560
Scan	1.5

[illegible]

→ **TO JORHAT**

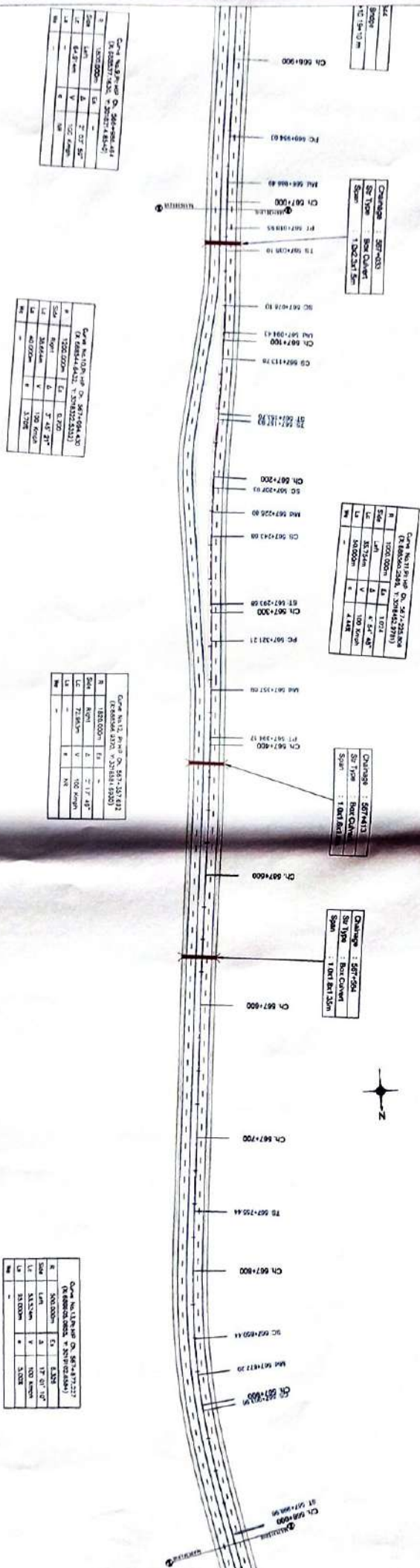
PLEASE REFER PROBLEMS ON THE NEXT PAGE

TO DIBRUGARH

LEGENDS PROFILE

LEGENDS PROFILE

Proposed FRI LANE	
Proposed FRI R/W	
OOE Bldg LANE	
OOE Bldg R/W	



Case No. 8-9-0000 Q. 566-902-434
(K. 000007-432, + 20-277-4 83-47)

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18	-	Q	000
00	-	-	-

Cur No. 10.9.107 Ch. 367-094.430
(X 66844.6432, Y 2078532.8113)

#	1000.000m	Es	0.700
Sda	Rp+1	d	7' 45" 21"
Li	38.664m	v	150 Km/h
La	40.000m	#	3.704
Me	-		

St	Right	Δ	Δ	Δ
1828.00m				
St	Right	Δ	Δ	Δ
Lc	72.45m	U	100.40m	
St				

Qing No. LTP 100 Ch. 56 v. 8.7.2.2 (# 6000.0000, v. 501 v. 02.05.04)				
#	500.000m	C3	6.250	
5000	LTP	A	17 01' 10"	
L3	55.524m	V	100 kg/cm	
L3	35.000m	#	2.02X	
100	-			

Paula Smith, Outreach
Project Manager
WIS Memorial Highway &
Moran Express to Bogalusa Junction
(NH DCL, 4-Lane Project)

Shardul
Safety Consultants (P) Ltd.
Apex Techno Consultants
Bhubaneswar

[illegible]

TO DIBUKA

1

Assistant Secretary of the Interior
 Department of the Interior
 Indian Affairs
 Washington, D. C.

Project Manager
M.S. Maraziti, Ph.D.
Maraziti Press to Egg Street Junction
N-1000 44 Ave. Portland

Checked & Vetter

ARJ Techno Consultants
Pune



1

[illegible]

	DATE	SIGNATURE

SCALE:		VERTICAL - 1" = 200'		PLAN AND PROFILE	
		HORIZONTAL - 1" = 200.0'		KOA 568+000 TO KOA 699+000	
PREPARED	DESIGNED	CHECKED	APPROVED	DATE: JAN 2020	REVISION: 80
P.G	MWD	DDR	SS	DMG. NO. NNHDC/MER/7647/5698	

TO JORHAT

TO DIBRUGARH

PLEASE REFER PROJECT ON THE NEXT PAGE

LEGENDS PLAN

- Proposed CL L&E
- Proposed CL R&E
- Prop. Carriageway
- Prop. Shoulder
- Prop. Drain cam
- Prop. Footpath
- Proposed Row
- Existing Road

LEGENDS PROFILE

- Proposed FRL L&E
- Proposed FRL R&E
- OGL Below L&E
- OGL Below R&E

Scale	1:200
Sheet	22.2m

CH 569+900

CH 569+000

PT 569+055.80

CH 569+100

CH 569+200

CH 569+300

CH 569+400

PT 569+522.80

CH 569+600

CH 569+700

PT 569+727.44

MA 569+755.74

PT 569+774.05

CH 569+900

CH 570+000



8 Lane Toll Plaza at Ch. 570+000

Curve No. 15.18	Curve No. 15.18	Curve No. 15.18
Radius (m)	1500.00	1500.00
Length (m)	150.00	150.00
Grade (%)	0.00	0.00
Superelevation (%)	0.00	0.00
Clearance (m)	4.50	4.50
Width (m)	12.00	12.00
Side Slope	1:1	1:1
Drainage	Left	Right
Notes		

Curve No. 15.18	Curve No. 15.18	Curve No. 15.18
Radius (m)	1500.00	1500.00
Length (m)	150.00	150.00
Grade (%)	0.00	0.00
Superelevation (%)	0.00	0.00
Clearance (m)	4.50	4.50
Width (m)	12.00	12.00
Side Slope	1:1	1:1
Drainage	Left	Right
Notes		

Curve No. 15.18	Curve No. 15.18	Curve No. 15.18
Radius (m)	1500.00	1500.00
Length (m)	150.00	150.00
Grade (%)	0.00	0.00
Superelevation (%)	0.00	0.00
Clearance (m)	4.50	4.50
Width (m)	12.00	12.00
Side Slope	1:1	1:1
Drainage	Left	Right
Notes		

Public Safety: Reliability
 U.S. Department of Transportation
 Federal Highway Administration
 Washington, D.C. 20590

Checked & Vetted
 [Signature]
 [Stamp]

Zhang Sun
 Safety Consultant (I) Pvt. Ltd.
 New Delhi, India

PROJECT	WORKAL BYPASS ROAD (NH-33)	CLIENT	National Highway & Infrastructure Corporation Limited	CONTRACTOR	U.S. Department of Transportation, Federal Highway Administration, Washington, D.C. 20590	PROJECT CONSULTANT	INDIAN INSTITUTE OF TECHNOLOGY, DELHI	SAFETY CONSULTANT	AMRITTECHNO CONSULTANTS (INDIA) PVT. LTD.	AUTHORITY DESIGNED	VOYANTIS SOLUTIONS PVT. LTD.	SCALE	VERTICAL: 1:200 HORIZONTAL: 1:2000	PLAN AND PROFILE	KM 569+000 TO KM 570+000
DATE	01/01/2020	DESIGNER	[Signature]	CHECKER	[Signature]	APPROVED	[Signature]	DATE	JUN 2020	REVISION	RD	DRG. NO.	NHDC/ANR/P&P/20/01		

LEGENDS PLAN

To JORHAT

To DIBRUGARH

- Proposed CL LINE
- Proposed CL R/L
- Prop. Carriageway
- Prop. Shoulder
- Prop. Drain cum
- Proposed Row
- Existing Road

LEGENDS PROFILE

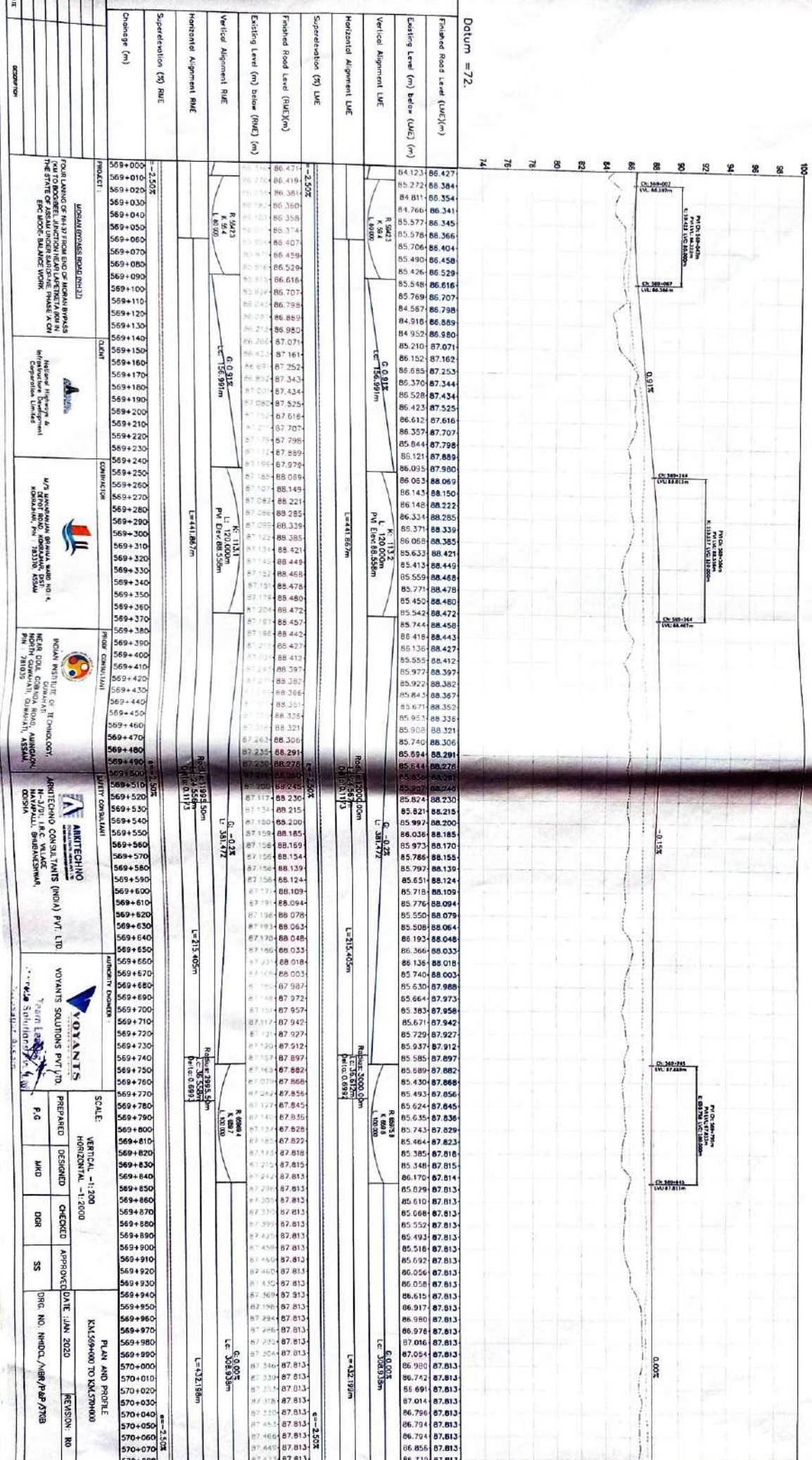
- Proposed FRL LINE
- Proposed PRL LINE
- OGL Below LME
- OGL Below RME

Paula Sanku Debbarm
MS (Masterplan & Survey)
Muzumbar Road, Jorhat
(NH-10CL, 4 Lane Project)

Checked & Vetted
[Signature]
20/12/2020

Chandana
Safety Consultant (I) PVT. Ltd
Road Safety Consultants
Guwahati

Datum = 72.

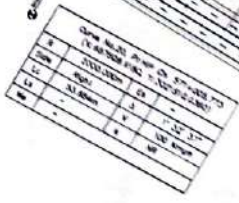


PROJECT :	LOCAL CROSS ROAD (NH-10)
CLIENT :	Regional Highway & Transport Corporation Limited
CONTRACTOR :	M/S. JAYANATHAN BUILDERS, 10/1, K. K. ROAD, PIN-781005, ASSAM
PROJECT CONSULTANT :	MOHAN INSTITUTE OF TECHNOLOGY, COMMERCE, NORTH DOWRY ROAD, AHMEDABAD, PIN-380015
APPROVAL :	AMTECHNO CONSULTANTS (INDIA) PVT. LTD. (MAYAPUR, P.O. VILLAGE, MAYAPUR, BIRSAKUMAR, COOCH)
APPROVED BY :	VOYANTS SOLUTIONS PVT. LTD.
SCALE :	VERTICAL - 1:200 HORIZONTAL - 1:2000
DESIGNED :	
CHECKED :	
APPROVED :	
DATE :	JUN 2020
REVISION :	NO
DRG. NO. :	NHCL/ABR/PP/2708

↑
10 JOURNAL

10 DIBROGANI

LEGENDS PROFILE



Thangam
Safely Consultants (P) Ltd
Agri Techno Consultants
Bhubaneswar

DATE : JAN 2020	REVISION: R0
DRG. NO. NHIDA/MBR/PAT/571A	

PLEASE REFER PROBLEM ON THE NEXT PAGE

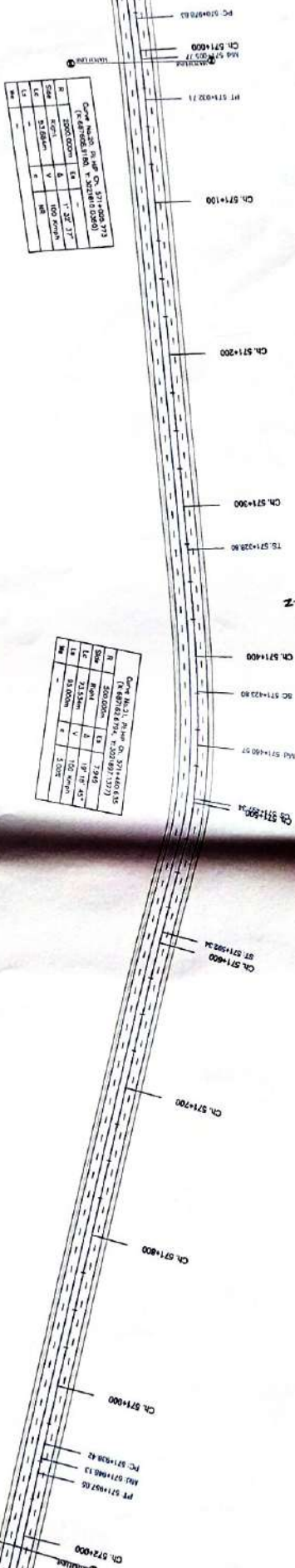
TO DIBRUGARH

LEGENDS PLAN

Proposed CL, LWB
Proposed CL, RMB
Prop. Carriageway
Paved Shoulder
Barbed Shoulder
Prop. Drain cum
Footpath
Proposed Row
Existing Road

LEGENDS PROFILE

Proposed FRL LME	Proposed FRL RME	OGL Below LME	OGL Below RME
_____	_____	_____	_____



Curve No. 20, 10, 50, 371+000-373 (K-658, 659, 150, 372)(E10, 026)			
R	2000.000m	Ea	-
Side	Left	Δ	1-32 37
LC	2.550m	V	100 kmph
LC	-	e	NR
WC	-		

Curve No. 21, A.M. Co. 371+40.65
(74.68762, 74.7, 75.021897, 13.77)

R	SSW	Rght	LS	TS
500.00m				7.95
	Lc	73.53mm	Δ	19° 10' 45"
	Ls	35.00mm	V	100.4mm
Me			e	5.00m

Date: May 22, 1974 (C606733 4420 P. 3022131, 2610)				
#	Site	Lat	Lo	
1C	19 431m			
2A	-	V	σ 25 24	
2B	-	a	100 Km/h	
			NW	

Paula Swartz, Deborah
Project Manager
M/S Marathan in St John &
Marion Bypass to Bogden Junction
(NHIDCL, 4-Lane Project)

ed & Vetter

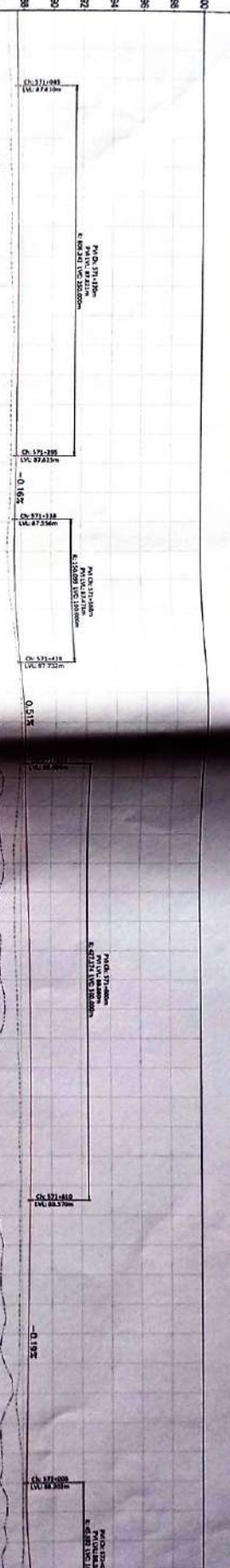
Chandru
Satey Consultants (I) Pvt Ltd
ARU Techno Center
Bhubaneswar

[illegible]

10 DIBKUGAN

10 DIBACON

AROL Techno Consultants
Bhubaneswar



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PLEASE REFER PROBATION OFFICER TO THE NEXT PAGE



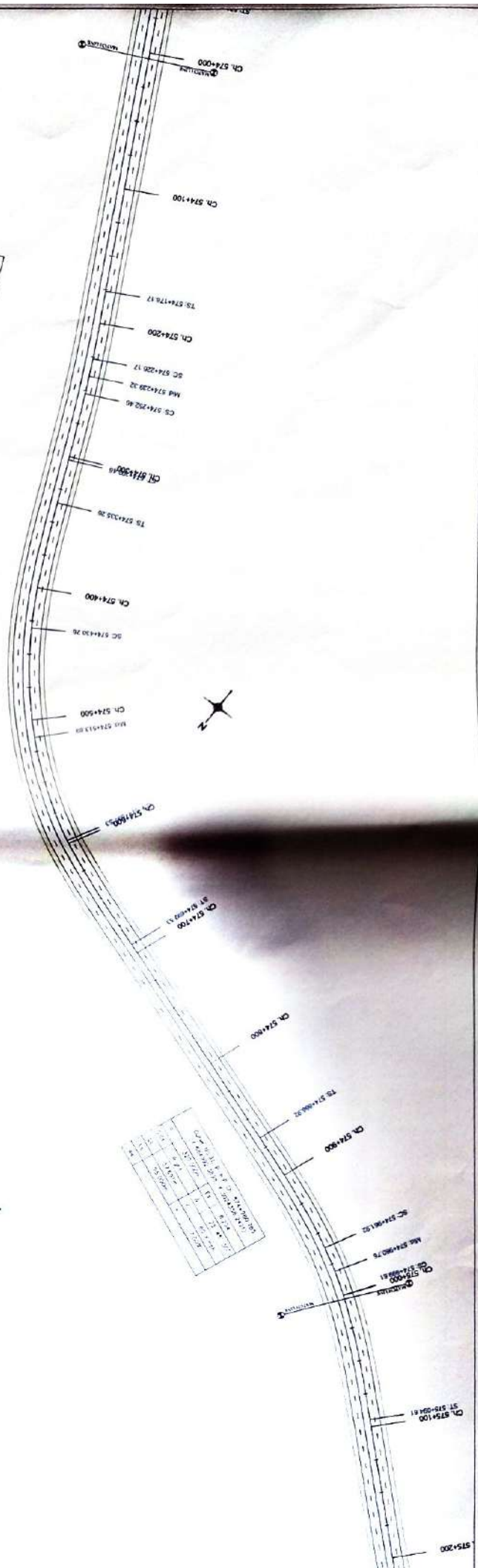
 VOVANTIS VOVANTIS SOLUTIONS PVT LTD Team Leads: 		COMPANY COORDINATOR SCALE:	
VERTICAL: L-2820 HORIZONTAL: L-2000		PLAN AND PEOPLE IKA-574000 TO IKA-575000	
PREPARED	DESIGNED	CHECKED	APPROVED
P.G	MMD	DGR	SS
DATE: JAN 2020		REVISION: R0	
DNG, NO. INDICA, ABR, PAB, STYA			

LEGENDS PLAN

- Proposed CL LME
Proposed CL RME
Prop. Carriageway
Paved Shoulder
Earth Shoulder
Prop. Drain cum
Footpath
Proposed Row
Existing Road

LEGENDS PROFILE

- Proposed FRL LME
Proposed FRL RME
OGL Below LME
OGL Below RME



Curve Data Table 1

Station	PC	PT	PI	Length (m)	Radius (m)	Angle (°)
574+000	574+000	574+100	574+050	100	1000	180
574+100	574+100	574+200	574+150	100	1000	180

Curve Data Table 2

Station	PC	PT	PI	Length (m)	Radius (m)	Angle (°)
574+200	574+200	574+300	574+250	100	1000	180
574+300	574+300	574+400	574+350	100	1000	180

Project Manager
M/S. Sankar & Associates
10/10, 1st Floor, 1st Phase, NCT
(NCTCL, 4th Phase Project)

Project Manager
M/S. Sankar & Associates
10/10, 1st Floor, 1st Phase, NCT
(NCTCL, 4th Phase Project)

PROJECT	MORAN BISHNUPUR ROAD (NCT)		
CLIENT	National Highway & Infrastructure Development Corporation Limited.		
CONTRACTOR	M/S. SANKAR & ASSOCIATES, 10/10, 1st Floor, 1st Phase, NCT, MORAN BISHNUPUR, DIST. ASSAM, PIN - 781039		
PROJECT CONSULTANT	INDIAN INSTITUTE OF TECHNOLOGY, NEAR DOLA, GUWAHATI, NORTH GUJARAT, GUWAHATI, ASSAM, PIN - 781039		
SUPPLY CONSULTANT	AMKTECHNO CONSULTANTS (INDIA) PVT. LTD., N-2/21, 1st Floor, 1st Phase, NCT, MORAN BISHNUPUR, DIST. ASSAM, PIN - 781039		
INTERESTED PARTY	VICTORY SOLUTIONS PVT. LTD., Team Leader, Victory Engineering Pvt. Ltd., Guwahati, Assam		
SCALE	VERTICAL: 1:200 HORIZONTAL: 1:2000		
PREPARED	DESIGNED	CHECKED	APPROVED
P.C.	MMD	DCR	SS
DATE: JUN 2020			REVISION: 01
PLAN AND PROFILE			NO. NCTCL/MBR/PA/257A

LEGENDS PLAN

- Proposed CL LINE
- Proposed CL R&B
- Prop. Carriageway
- Prop. Shoulder
- Prop. Drain cum
- Prop. Road
- Proposed Road
- Existing Road

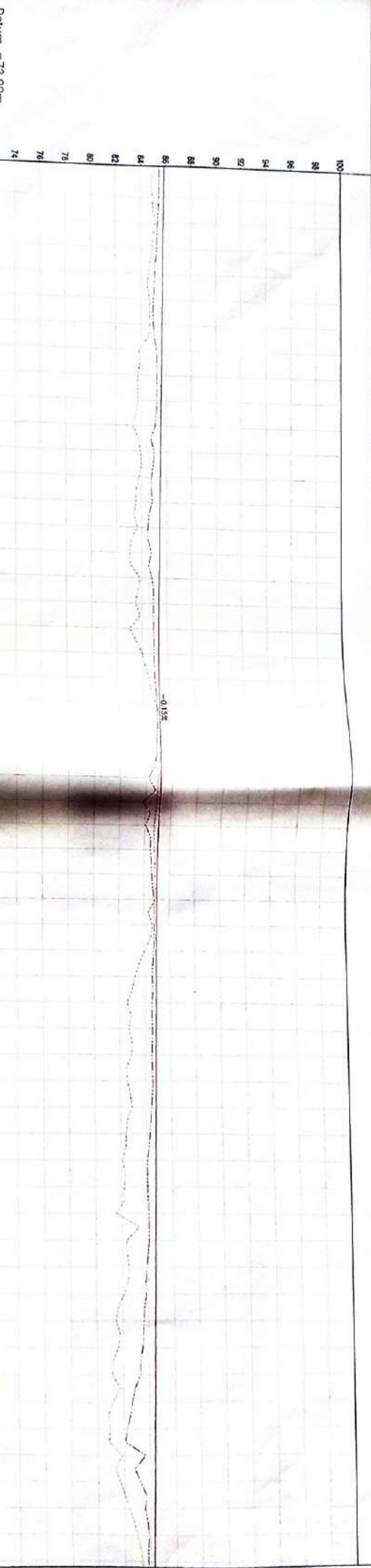
LEGENDS PROFILE

- Proposed P&L LINE
- Proposed P&L R&B
- Proposed P&L R&B
- OGI Below R&B

Pratik Sankar Choudhary
Project Manager
M/S. Sankar Choudhary
Civil, Electrical, & Mechanical Engineering

Pratik Sankar Choudhary
Project Manager
M/S. Sankar Choudhary
Civil, Electrical, & Mechanical Engineering

Pratik Sankar Choudhary
Safety Engineer
M/S. Sankar Choudhary
Civil, Electrical, & Mechanical Engineering



Datum = 72.00m	
Finished Road Level (FRL) (m)	85.660
Existing Level (m) below (FRL) (m)	85.467
Vertical Alignment LUE	85.451
Horizontal Alignment LUE	85.412
Superelevation (%) LUE	85.361
Finished Road Level (FRL) (m)	85.297
Existing Level (m) below (FRL) (m)	85.296
Vertical Alignment LUE	85.185
Horizontal Alignment LUE	85.141
Superelevation (%) LUE	85.122
Finished Road Level (FRL) (m)	85.009
Existing Level (m) below (FRL) (m)	84.989
Vertical Alignment LUE	85.010
Horizontal Alignment LUE	85.091
Superelevation (%) LUE	85.240
Finished Road Level (FRL) (m)	85.277
Existing Level (m) below (FRL) (m)	85.255
Vertical Alignment LUE	85.287
Horizontal Alignment LUE	85.262
Superelevation (%) LUE	85.215
Finished Road Level (FRL) (m)	85.136
Existing Level (m) below (FRL) (m)	84.767
Vertical Alignment LUE	85.043
Horizontal Alignment LUE	84.951
Superelevation (%) LUE	84.819
Finished Road Level (FRL) (m)	84.807
Existing Level (m) below (FRL) (m)	84.864
Vertical Alignment LUE	84.575
Horizontal Alignment LUE	84.499
Superelevation (%) LUE	84.494
Finished Road Level (FRL) (m)	84.772
Existing Level (m) below (FRL) (m)	84.531
Vertical Alignment LUE	84.832
Horizontal Alignment LUE	84.954
Superelevation (%) LUE	84.928
Finished Road Level (FRL) (m)	84.946
Existing Level (m) below (FRL) (m)	84.940
Vertical Alignment LUE	84.953
Horizontal Alignment LUE	84.948
Superelevation (%) LUE	84.959
Finished Road Level (FRL) (m)	84.979
Existing Level (m) below (FRL) (m)	85.008
Vertical Alignment LUE	85.053
Horizontal Alignment LUE	85.002
Superelevation (%) LUE	84.943
Finished Road Level (FRL) (m)	84.876
Existing Level (m) below (FRL) (m)	84.692
Vertical Alignment LUE	84.236
Horizontal Alignment LUE	84.737
Superelevation (%) LUE	83.700
Finished Road Level (FRL) (m)	84.304
Existing Level (m) below (FRL) (m)	84.056
Vertical Alignment LUE	84.496
Horizontal Alignment LUE	84.475
Superelevation (%) LUE	84.585
Finished Road Level (FRL) (m)	84.627
Existing Level (m) below (FRL) (m)	84.700
Vertical Alignment LUE	84.808
Horizontal Alignment LUE	84.832
Superelevation (%) LUE	84.827
Finished Road Level (FRL) (m)	84.798
Existing Level (m) below (FRL) (m)	84.744
Vertical Alignment LUE	84.664
Horizontal Alignment LUE	84.609
Superelevation (%) LUE	84.639
Finished Road Level (FRL) (m)	84.569
Existing Level (m) below (FRL) (m)	84.558
Vertical Alignment LUE	84.580
Horizontal Alignment LUE	84.556
Superelevation (%) LUE	84.530
Finished Road Level (FRL) (m)	84.537
Existing Level (m) below (FRL) (m)	84.563
Vertical Alignment LUE	84.500
Horizontal Alignment LUE	84.443
Superelevation (%) LUE	84.361
Finished Road Level (FRL) (m)	84.286
Existing Level (m) below (FRL) (m)	84.166
Vertical Alignment LUE	84.059
Horizontal Alignment LUE	84.051
Superelevation (%) LUE	84.051
Finished Road Level (FRL) (m)	84.069
Existing Level (m) below (FRL) (m)	84.057
Vertical Alignment LUE	84.107
Horizontal Alignment LUE	84.104
Superelevation (%) LUE	84.002
Finished Road Level (FRL) (m)	83.856
Existing Level (m) below (FRL) (m)	83.816
Vertical Alignment LUE	83.834
Horizontal Alignment LUE	83.659
Superelevation (%) LUE	83.625
Finished Road Level (FRL) (m)	83.602
Existing Level (m) below (FRL) (m)	83.511
Vertical Alignment LUE	83.321
Horizontal Alignment LUE	83.322
Superelevation (%) LUE	82.900
Finished Road Level (FRL) (m)	82.670
Existing Level (m) below (FRL) (m)	82.523
Vertical Alignment LUE	82.240
Horizontal Alignment LUE	82.090
Superelevation (%) LUE	83.643
Finished Road Level (FRL) (m)	83.607
Existing Level (m) below (FRL) (m)	83.241
Vertical Alignment LUE	83.673
Horizontal Alignment LUE	83.553
Superelevation (%) LUE	83.752
Finished Road Level (FRL) (m)	83.830
Existing Level (m) below (FRL) (m)	83.777
Vertical Alignment LUE	83.797
Horizontal Alignment LUE	84.263

TO DIBRUGARH

Pharmaceuticals

LEGENDS PROFILE

Proposed FY11 Line

COOL BROWN RAYE

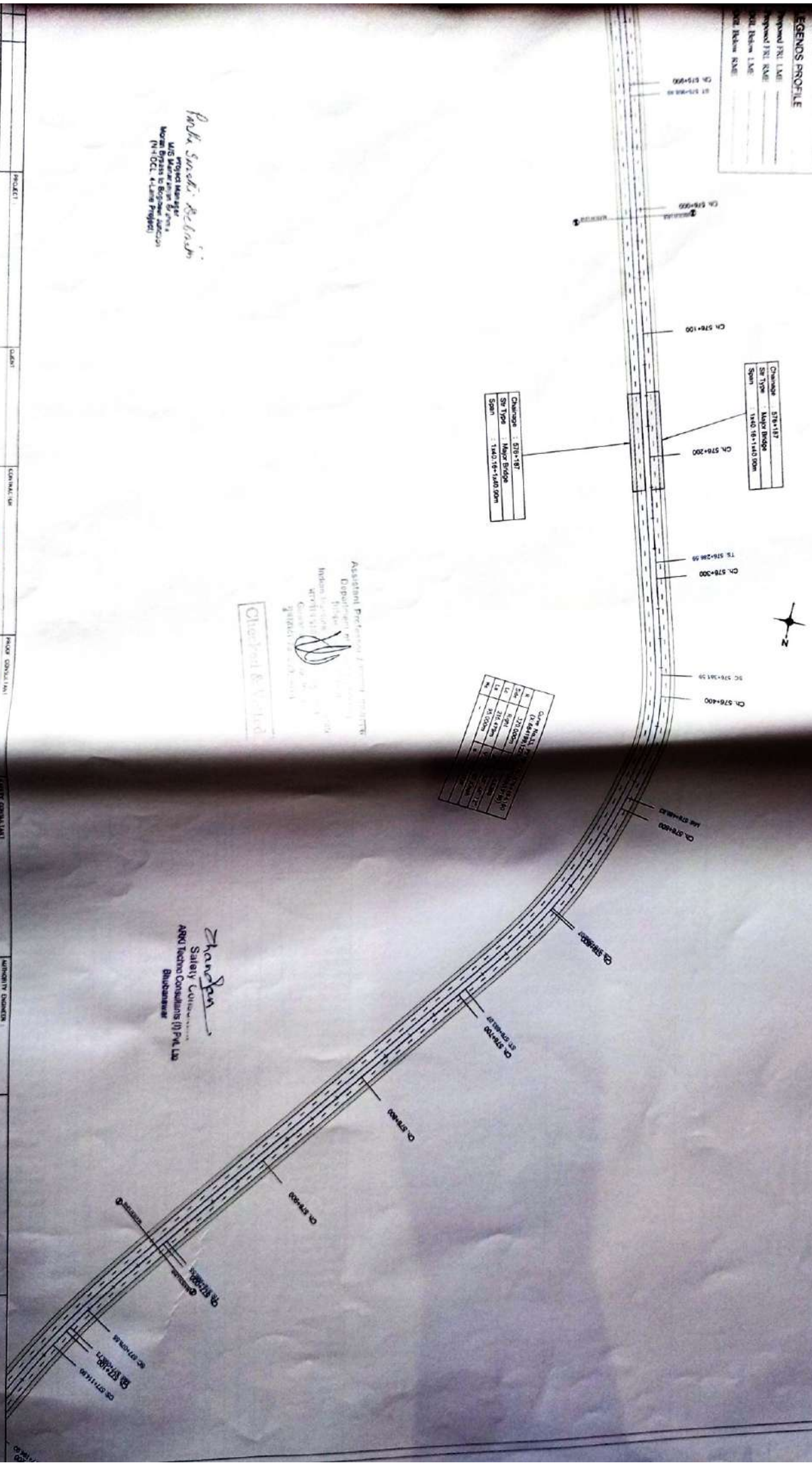


Checked & Vetted

Assistant Professor / ~~Senior Lecturer~~
Department of ~~Mathematics~~
Indian Institute of Technology
Guwahati
Guwahati-781005, India
gaurav@iitg.ac.in

Charan
Saty Colls
ARX Techno Consultants (I) Pvt. Ltd.
Bhubaneswar

DATE	DESIGNATION	PROJECT :	CLIENT	CONTRACTOR	PROJECT CONSULTANT	SERVICES CONSULTANT	APPOINTMENT DEDICATED :	SCALE :	PLAN AND PROFILE
		LOCALITY: BAYANES ROAD (NH-37) FOUR LANE OF NH-37 FROM END OF BORNANIPYRAS TUN TO ROBERTA LAKSHMI NEELAKANTH TUN IN IN BORNANIPYRAS, BORNANIPYRAS, PIN - 731102, ASSAM BPC BDOE: BALANCE WORK.	 National Highway & Infrastructure Development Corporation Limited	 M/S. BORNANIPYRAS ROAD AND 4, 4TH FLOOR, BORNANIPYRAS ROAD, BORNANIPYRAS, PIN - 731102, ASSAM	 INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI, NEAR GOUL, 4TH FLOOR, NORTH CAMPUS, GUWAHATI, ASSAM, PIN - 781035	 AMTECHINO AMTECHINO CONSULTANTS (INDIA) PVT. LTD. 22/2B, 1ST FLOOR, NAYANALLI BUILDING, NEW COOCHIN	 VOYANIS VOYANIS SOLUTIONS PVT. LTD. Team Lead:  Vedant Solutions Pvt. Ltd.	PREPARED DESIGNED CHECKED APPROVED DATE: 24.04.2020 SCALE: VERTICAL - 1:200 HORIZONTAL - 1:2000 P.C. MKD DSR SS DGS NO. 100/2019-2020 10435-100/2019-2020 10435-100/2019-2020	PLAN AND PROFILE 10435-100/2019-2020 10435-100/2019-2020

[illegible]

Project Manager
M/S Marazion Bldg 4
Moran Bypass to Bogues Junction
(N+DCL 4-Lane Project)

[illegible]

Charan,
Safety Culture
ARQ Techno Consultants (I) Pvt. Ltd
Bhubaneswar

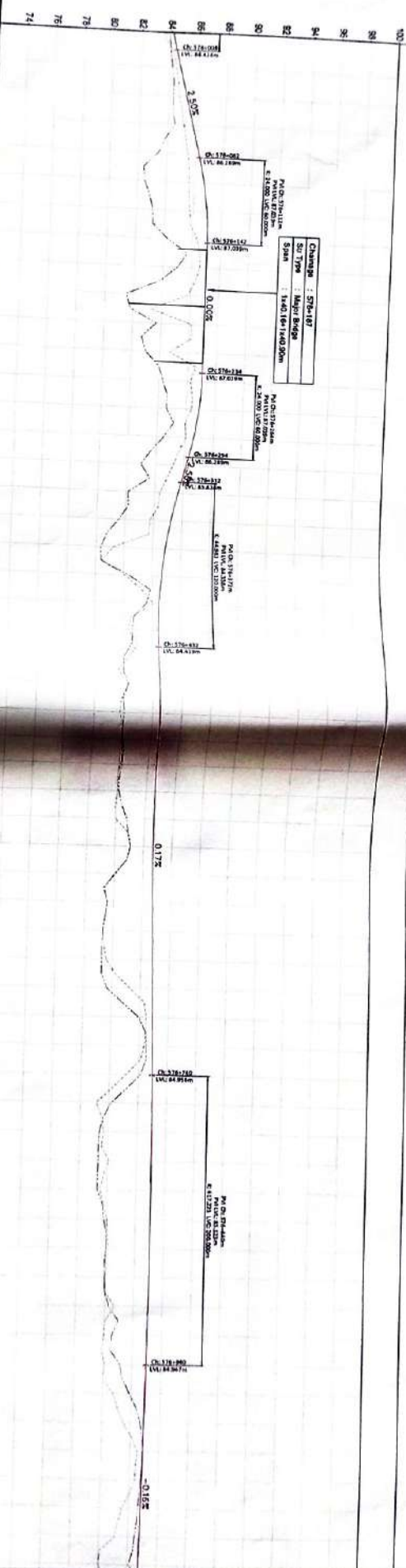
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→ To JORHAT

On Perfection of the
 Department of
 Education
 of the
 State of
 New York
 1900

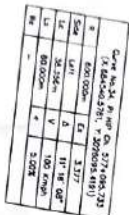
Charles & Vester

Chandru
Safety Consultants (P) Ltd.
ARX Techno Consultants (P) Ltd.
Bauconcrete

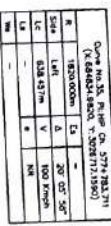
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→ **TO JORNAT**

LEGENDS PROFILE



Chas. Page	: 577-313
Sir Type	: Box Culvert
Span	: 10x4, 7x1 8m



Assault, Criminal / Injury
 Victim
 Date
 Time
 Location
 Police
 Arrested & Victim

Chandran
Safety Consultants
ARX Techno Consultants (I) Pvt. Ltd
Bhubaneswar

PROJECT URDULI BRIDGE ROAD (RM-37) FEASIBILITY OF IN-37 FROM RDP OF INDIAN BRIDGES (NAT) TO BOGORAL, SONGKROK, LAET, LAET, LAET AND IN-37 (P) MODE- BALANCE WORK	CLIENT  National Highway & Infrastructure Development Corporation Limited	CONTRACTOR  U.T. ENGINEERING & CONSTRUCTION PVT. LTD. 400/1, 400/2, 400/3, 400/4, 400/5, 400/6, 400/7, 400/8, 400/9, 400/10, 400/11, 400/12, 400/13, 400/14, 400/15, 400/16, 400/17, 400/18, 400/19, 400/20, 400/21, 400/22, 400/23, 400/24, 400/25, 400/26, 400/27, 400/28, 400/29, 400/30, 400/31, 400/32, 400/33, 400/34, 400/35, 400/36, 400/37, 400/38, 400/39, 400/40, 400/41, 400/42, 400/43, 400/44, 400/45, 400/46, 400/47, 400/48, 400/49, 400/50, 400/51, 400/52, 400/53, 400/54, 400/55, 400/56, 400/57, 400/58, 400/59, 400/60, 400/61, 400/62, 400/63, 400/64, 400/65, 400/66, 400/67, 400/68, 400/69, 400/70, 400/71, 400/72, 400/73, 400/74, 400/75, 400/76, 400/77, 400/78, 400/79, 400/80, 400/81, 400/82, 400/83, 400/84, 400/85, 400/86, 400/87, 400/88, 400/89, 400/90, 400/91, 400/92, 400/93, 400/94, 400/95, 400/96, 400/97, 400/98, 400/99, 400/100, 400/101, 400/102, 400/103, 400/104, 400/105, 400/106, 400/107, 400/108, 400/109, 400/110, 400/111, 400/112, 400/113, 400/114, 400/115, 400/116, 400/117, 400/118, 400/119, 400/120, 400/121, 400/122, 400/123, 400/124, 400/125, 400/126, 400/127, 400/128, 400/129, 400/130, 400/131, 400/132, 400/133, 400/134, 400/135, 400/136, 400/137, 400/138, 400/139, 400/140, 400/141, 400/142, 400/143, 400/144, 400/145, 400/146, 400/147, 400/148, 400/149, 400/150, 400/151, 400/152, 400/153, 400/154, 400/155, 400/156, 400/157, 400/158, 400/159, 400/160, 400/161, 400/162, 400/163, 400/164, 400/165, 400/166, 400/167, 400/168, 400/169, 400/170, 400/171, 400/172, 400/173, 400/174, 400/175, 400/176, 400/177, 400/178, 400/179, 400/180, 400/181, 400/182, 400/183, 400/184, 400/185, 400/186, 400/187, 400/188, 400/189, 400/190, 400/191, 400/192, 400/193, 400/194, 400/195, 400/196, 400/197, 400/198, 400/199, 400/200, 400/201, 400/202, 400/203, 400/204, 400/205, 400/206, 400/207, 400/208, 400/209, 400/210, 400/211, 400/212, 400/213, 400/214, 400/215, 400/216, 400/217, 400/218, 400/219, 400/220, 400/221, 400/222, 400/223, 400/224, 400/225, 400/226, 400/227, 400/228, 400/229, 400/230, 400/231, 400/232, 400/233, 400/234, 400/235, 400/236, 400/237, 400/238, 400/239, 400/240, 400/241, 400/242, 400/243, 400/244, 400/245, 400/246, 400/247, 400/248, 400/249, 400/250, 400/251, 400/252, 400/253, 400/254, 400/255, 400/256, 400/257, 400/258, 400/259, 400/260, 400/261, 400/262, 400/263, 400/264, 400/265, 400/266, 400/267, 400/268, 400/269, 400/270, 400/271, 400/272, 400/273, 400/274, 400/275, 400/276, 400/277, 400/278, 400/279, 400/280, 400/281, 400/282, 400/283, 400/284, 400/285, 400/286, 400/287, 400/288, 400/289, 400/290, 400/291, 400/292, 400/293, 400/294, 400/295, 400/296, 400/297, 400/298, 400/299, 400/300, 400/301, 400/302, 400/303, 400/304, 400/305, 400/306, 400/307, 400/308, 400/309, 400/310, 400/311, 400/312, 400/313, 400/314, 400/315, 400/316, 400/317, 400/318, 400/319, 400/320, 400/321, 400/322, 400/323, 400/324, 400/325, 400/326, 400/327, 400/328, 400/329, 400/330, 400/331, 400/332, 400/333, 400/334, 400/335, 400/336, 400/337, 400/338, 400/339, 400/340, 400/341, 400/342, 400/343, 400/344, 400/345, 400/346, 400/347, 400/348, 400/349, 400/350, 400/351, 400/352, 400/353, 400/354, 400/355, 400/356, 400/357, 400/358, 400/359, 400/360, 400/361, 400/362, 400/363, 400/364, 400/365, 400/366, 400/367, 400/368, 400/369, 400/370, 400/371, 400/372, 400/373, 400/374, 400/375, 400/376, 400/377, 400/378, 400/379, 400/380, 400/381, 400/382, 400/383, 400/384, 400/385, 400/386, 400/387, 400/388, 400/389, 400/390, 400/391, 400/392, 400/393, 400/394, 400/395, 400/396, 400/397, 400/398, 400/399, 400/400, 400/401, 400/402, 400/403, 400/404, 400/405, 400/406, 400/407, 400/408, 400/409, 400/410, 400/411, 400/412, 400/413, 400/414, 400/415, 400/416, 400/417, 400/418, 400/419, 400/420, 400/421, 400/422, 400/423, 400/424, 400/425, 400/426, 400/427, 400/428, 400/429, 400/430, 400/431, 400/432, 400/433, 400/434, 400/4
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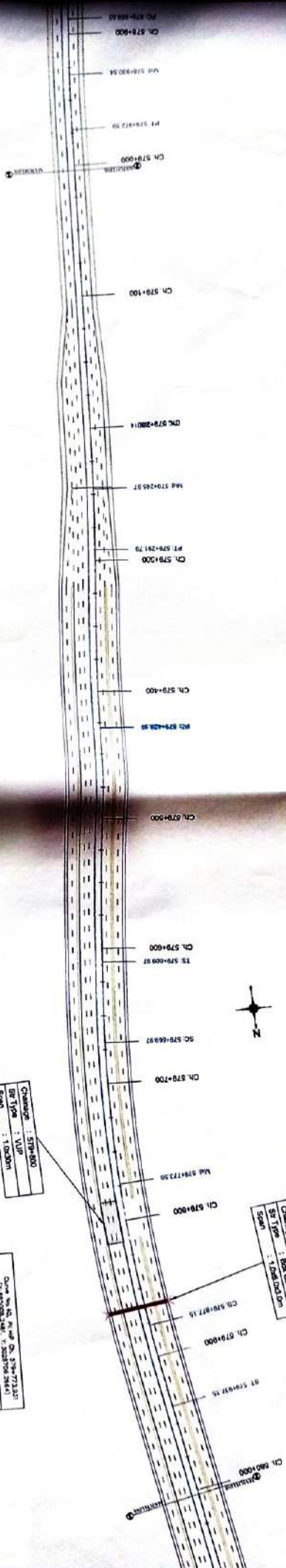
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To JORHAT

PLEASE REFER PROFILE ON THE NEXT PAGE

TO DIBRUGARH

LEGENDS PROFILE

Proposed FRI LNE	_____
Proposed FRI RME	_____
OOL Below LNE	_____
OOL Below RME	_____



Curve No. 27, Pt. 100 DN, 5178+35.501 (X: 684840.0070, Y: 5027885.1770)				
Stn	2000.000m	LS	-	
Stake	Left	L	2' 2 1/2"	
LS	84.000m	V	100.000m	
LS	-	+	NS	
NS	-			

Curve No. 30, FHWA Ch. 579, 2-25-973 (X.646928-5585, W.30CA180 0730)				
R	2000 092m	E4	-	
Side	Right	A	2- 3Y 32"	
LC	91.544m	V	100 Kmph	
LS	-	S	NH	
RA	-			

Curve No. 38, 71, 140, 25, 575-42.8, 91 (D 664277 1650, 71-202542 6670)			
R	2000 000m	E3	-
Side	Left	A	0° 01' 51"
Lc	1.250m	V	100 mph
Ls	-	S	111
Ms	-		

Curve No. 42, 1st MP On. 5-9-77 3.37			
(X 850000, Y 750000, Z 264)			
Station	1000 0000	Sta	3.142
Side	Left	A	15' 18" 30"
LC	207 15.5m	V	100 10000
LC	60 1000m	H	100
NS	-		

Path. Smelt's Belong
PTJOCC Maneger
MIS Material on 8/2/11
Morgan Bypass to Boggs Junction
(N-1, DCL, 4-Land Project)

0-1 & Vette

Changfu
Safety Consultant
ARX Techno Consultants (I) Pvt. Ltd.
Bhubaneswar

PROJECT	CLIENT	CONTRACT

PROOF CONSULTING

ELECTRIC CONDUCTIVITY

AUTHORITY ENGINEERS

7

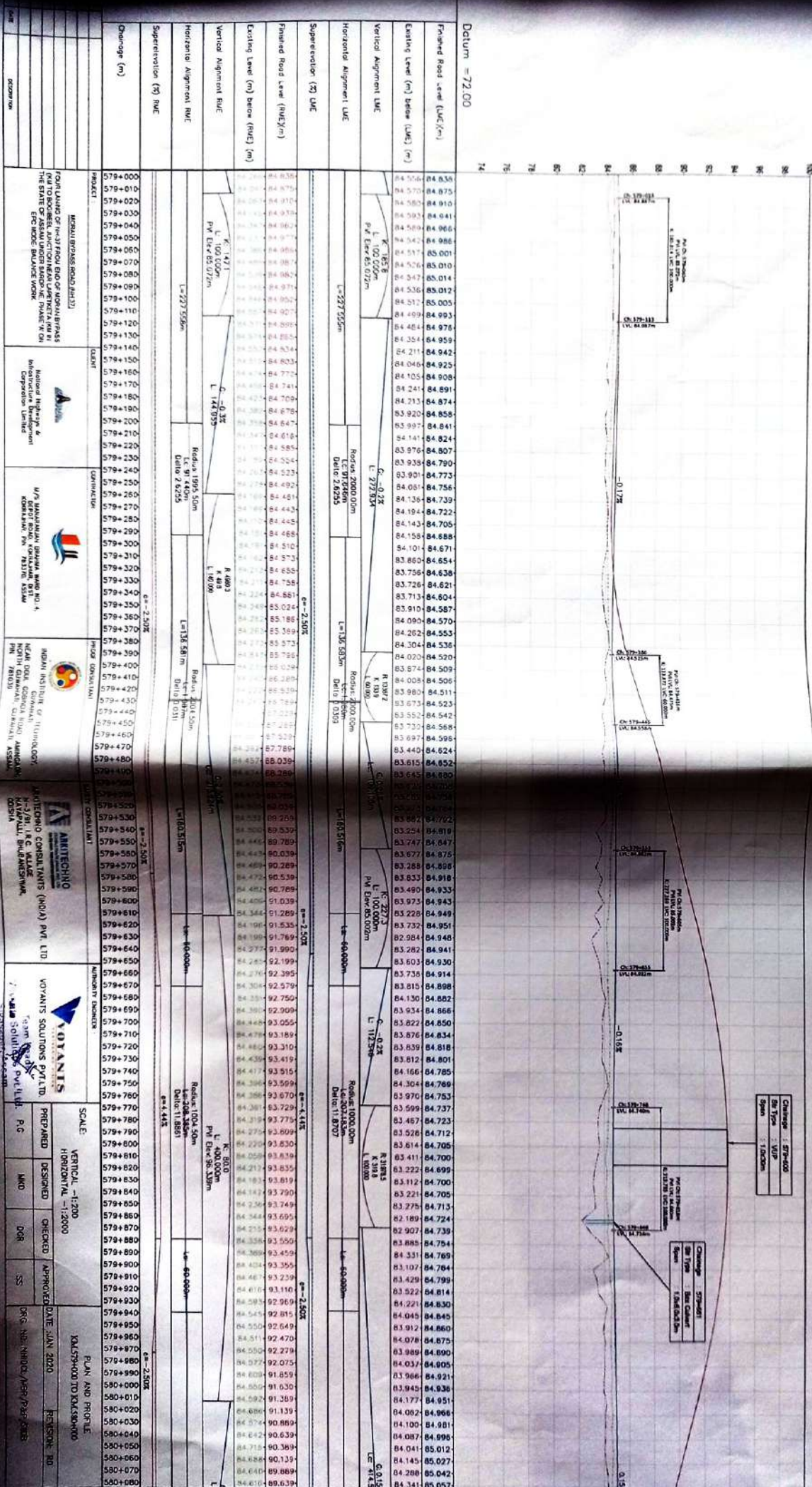
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TO DIBRUGARH

Chadson
Safety Consultants
APQ Techno Consultants (P) Pvt. Ltd.
Bhubaneswar



TO JORHAT

PLEASE REFER TO THE NEXT PAGE

TO DIBRUGARH

LEGENDS PROFILE

Proposed FRL LATE

Proposed FRL RME

OGL Below LINE

OGI Below RATE



R	2000 000m	fs	-
Side	P901	Δ	10° 05' 55"
Lc	332.510m	V	100 kmph
Ls	-	+	NR
Wb	-	-	-

Chandran
Sahitya Akademi
ARCA Techno Consultants (P) Ltd. Bangalore
Bhatnagar

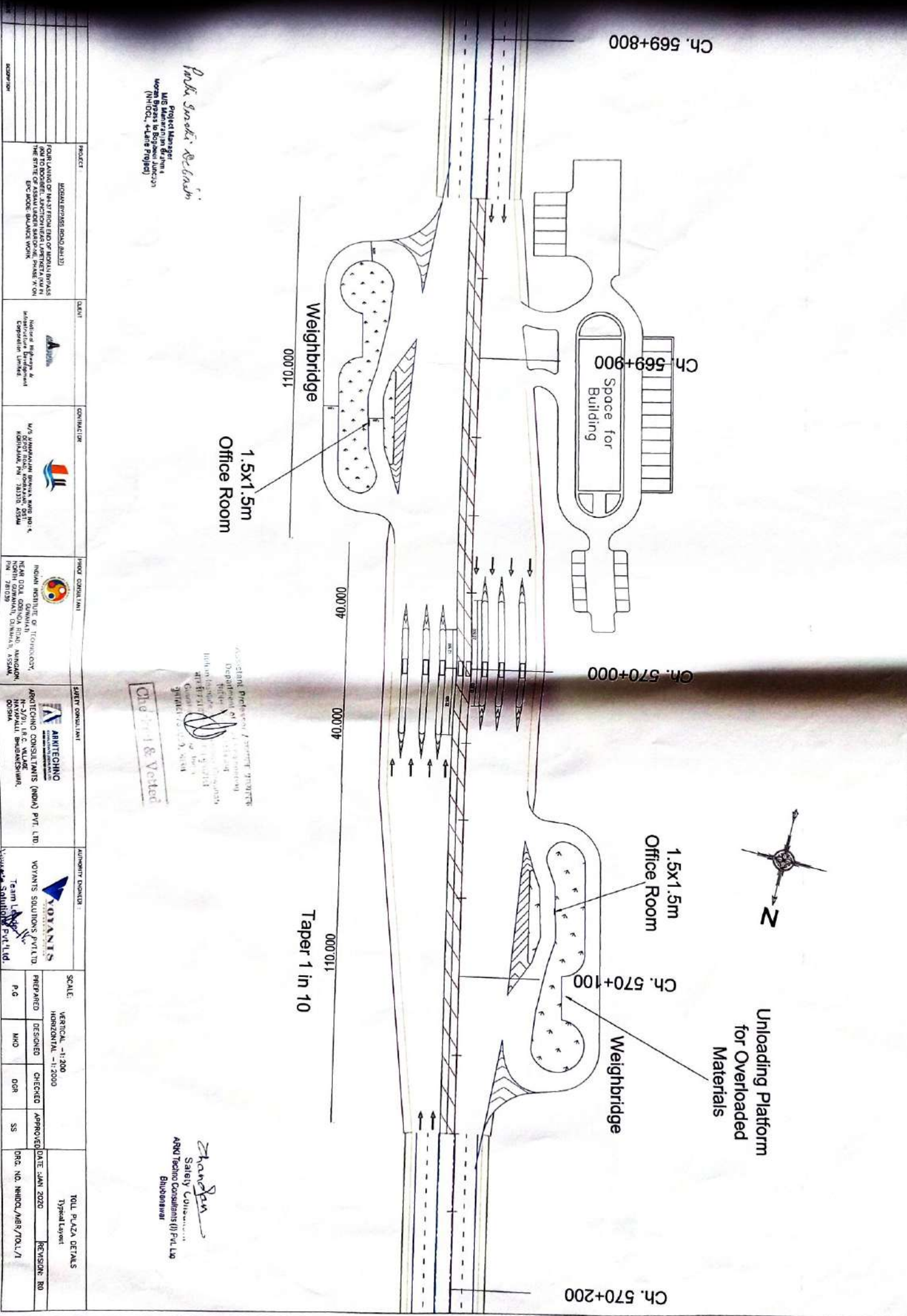
Project Manager
M/S Menerjian & Shim
Morgan Express to Boggett Junction
(NH/DCL, 4-Lane Project)

Assistant Professor
Department of
Indian History &
Civics
Government College,
Muzaffarpur



PROJECT	MOBIL BRASS DOOL (H-37)		CLIENT	 Architectural Development Corporation Limited		CONTRACTOR	 M/S JAGANMOHAN BRASS AND IRON & METAL INDUSTRIES 100/1, 100/2, 100/3, 100/4, 100/5, 100/6, 100/7, 100/8, 100/9, 100/10, 100/11, 100/12, 100/13, 100/14, 100/15, 100/16, 100/17, 100/18, 100/19, 100/20, 100/21, 100/22, 100/23, 100/24, 100/25, 100/26, 100/27, 100/28, 100/29, 100/30, 100/31, 100/32, 100/33, 100/34, 100/35, 100/36, 100/37, 100/38, 100/39, 100/40, 100/41, 100/42, 100/43, 100/44, 100/45, 100/46, 100/47, 100/48, 100/49, 100/50, 100/51, 100/52, 100/53, 100/54, 100/55, 100/56, 100/57, 100/58, 100/59, 100/60, 100/61, 100/62, 100/63, 100/64, 100/65, 100/66, 100/67, 100/68, 100/69, 100/70, 100/71, 100/72, 100/73, 100/74, 100/75, 100/76, 100/77, 100/78, 100/79, 100/80, 100/81, 100/82, 100/83, 100/84, 100/85, 100/86, 100/87, 100/88, 100/89, 100/90, 100/91, 100/92, 100/93, 100/94, 100/95, 100/96, 100/97, 100/98, 100/99, 100/100, 100/101, 100/102, 100/103, 100/104, 100/105, 100/106, 100/107, 100/108, 100/109, 100/110, 100/111, 100/112, 100/113, 100/114, 100/115, 100/116, 100/117, 100/118, 100/119, 100/120, 100/121, 100/122, 100/123, 100/124, 100/125, 100/126, 100/127, 100/128, 100/129, 100/130, 100/131, 100/132, 100/133, 100/134, 100/135, 100/136, 100/137, 100/138, 100/139, 100/140, 100/141, 100/142, 100/143, 100/144, 100/145, 100/146, 100/147, 100/148, 100/149, 100/150, 100/151, 100/152, 100/153, 100/154, 100/155, 100/156, 100/157, 100/158, 100/159, 100/160, 100/161, 100/162, 100/163, 100/164, 100/165, 100/166, 100/167, 100/168, 100/169, 100/170, 100/171, 100/172, 100/173, 100/174, 100/175, 100/176, 100/177, 100/178, 100/179, 100/180, 100/181, 100/182, 100/183, 100/184, 100/185, 100/186, 100/187, 100/188, 100/189, 100/190, 100/191, 100/192, 100/193, 100/194, 100/195, 100/196, 100/197, 100/198, 100/199, 100/200, 100/201, 100/202, 100/203, 100/204, 100/205, 100/206, 100/207, 100/208, 100/209, 100/210, 100/211, 100/212, 100/213, 100/214, 100/215, 100/216, 100/217, 100/218, 100/219, 100/220, 100/221, 100/222, 100/223, 100/224, 100/225, 100/226, 100/227, 100/228, 100/229, 100/230, 100/231, 100/232, 100/233, 100/234, 100/235, 100/236, 100/237, 100/238, 100/239, 100/240, 100/241, 100/242, 100/243, 100/244, 100/245, 100/246, 100/247, 100/248, 100/249, 100/250, 100/251, 100/252, 100/253, 100/254, 100/255, 100/256, 100/257, 100/258, 100/259, 100/260, 100/261, 100/262, 100/263, 100/264, 100/265, 100/266, 100/267, 100/268, 100/269, 100/270, 100/271, 100/272, 100/273, 100/274, 100/275, 100/276, 100/277, 100/278, 100/279, 100/280, 100/281, 100/282, 100/283, 100/284, 100/285, 100/286, 100/287, 100/288, 100/289, 100/290, 100/291, 100/292, 100/293, 100/294, 100/295, 100/296, 100/297, 100/298, 100/299, 100/300, 100/301, 100/302, 100/303, 100/304, 100/305, 100/306, 100/307, 100/308, 100/309, 100/310, 100/311, 100/312, 100/313, 100/314, 100/315, 100/316, 100/317, 100/318, 100/319, 100/320, 100/321, 100/322, 100/323, 100/324, 100/325, 100/326, 100/327, 100/328, 100/329, 100/330, 100/331, 100/332, 100/333, 100/334, 100/335, 100/336, 100/337, 100/338, 100/339, 100/340, 100/341, 100/342, 100/343, 100/344, 100/345, 100/346, 100/347, 100/348, 100/349, 100/350, 100/351, 100/352, 100/353, 100/354, 100/355, 100/356, 100/357, 100/358, 100/359, 100/360, 100/361, 100/362, 100/363, 100/364, 100/365, 100/366, 100/367, 100/368, 100/369, 100/370, 100/371, 100/372, 100/373, 100/374, 100/375, 100/376, 100/377, 100/378, 100/379, 100/380, 100/381, 100/382, 100/383, 100/384, 100/385, 100/386, 100/387, 100/388, 100/389, 100/390, 100/391, 100/392, 100/393, 100/394, 100/395, 100/396, 100/397, 100/398, 100/399, 100/400, 100/401, 100/402, 100/403, 100/404, 100/405, 100/406, 100/407, 100/408, 100/409, 100/410, 100/411, 100/412, 100/413, 100/414, 100/415, 100/416, 100/417, 100/418, 100/419, 100/420, 100/421, 100/422, 100/423, 100/424, 100/425, 100/426, 100/427, 100/428, 100/429, 100/430, 100/431, 100/432, 100/433, 100/434, 100/435, 100/436, 100/437, 100/438, 100/439, 100/440, 100/441, 100/442, 100/443, 100/444, 100/445, 100/446, 100/447, 100/448, 1	
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TYPICAL DETAILS OF TOLL PLAZA AT CH.571+110

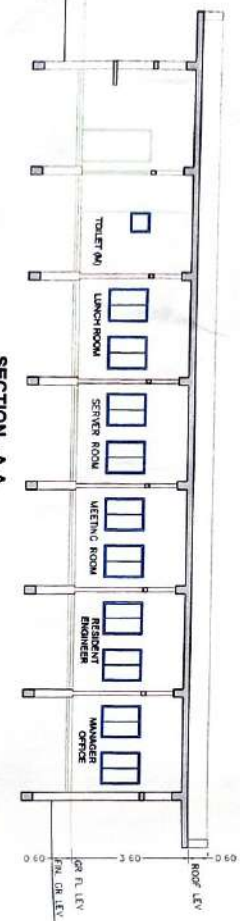
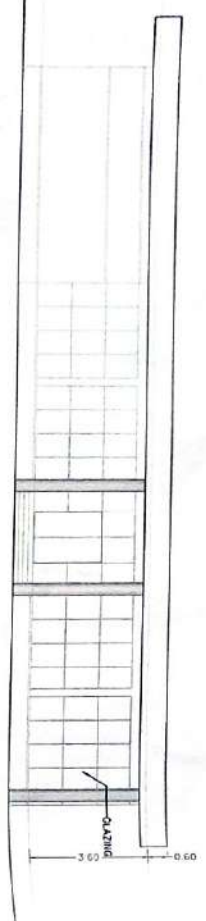


PROJECT		CLIENT		CONTRACTOR		PROJECT CONSULTANT		SAFETY CONSULTANT		AUTHORITY ENGINEER		SCALE		TOLL PLAZA DETAILS	
MORAN BRIDGE (BID NO. 13)		National Highway & Motor Vehicle Corporation Limited		M/V JAMUNABATI BRIDGE NO. 4		NORTH BRIDGE OF TOLLA CRY, NEAR TOLA GOROKA ROAD, ASSAM		N-3/2/1, I.E. MUSE, N-3/2/1, I.E. MUSE, N-3/2/1, I.E. MUSE		VONANIS SOLUTIONS PVT. LTD.		VERTICAL - 1:200		TYPED LAYOUT	
FOUR LANE OF 14.37 FROM END OF MORAN BRIDGE ROAD TO BOBBEL, LANTON HILL LANTON HILL IN THE STATE OF ASSAM				MORAN BRIDGE NO. 4		NORTH BRIDGE OF TOLLA CRY, NEAR TOLA GOROKA ROAD, ASSAM		N-3/2/1, I.E. MUSE, N-3/2/1, I.E. MUSE, N-3/2/1, I.E. MUSE		VONANIS SOLUTIONS PVT. LTD.		HORIZONTAL - 1:2000		REVISION: 00	
SPEC. MODE. BALANCE WORK												PREPARED			
												DESIGNED			
												CHECKED			
												APPROVED			
												DATE: JUN 2020			
												SS			
												DRG. NO. NHDC/ABR/TOL/1			

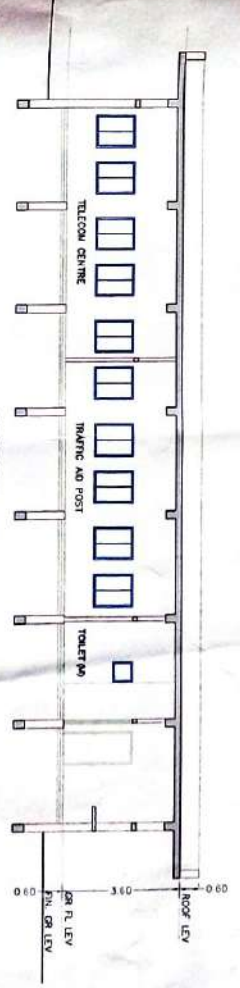
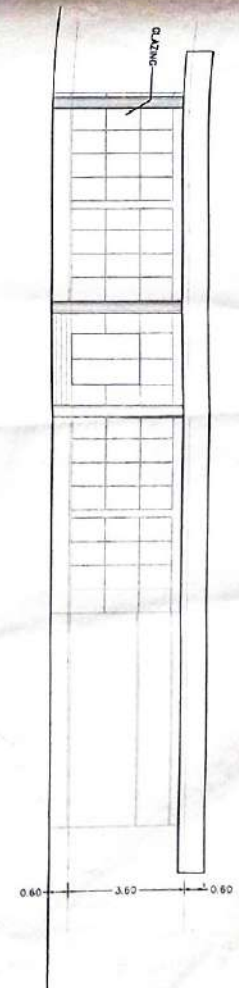
Project Manager:
 Mr. Sankar Das
 (NHDC, ABR Project)

Assistant Professor / Project Director
 Department of Civil Engineering
 Institute of Technology
 at Guwahati, Assam

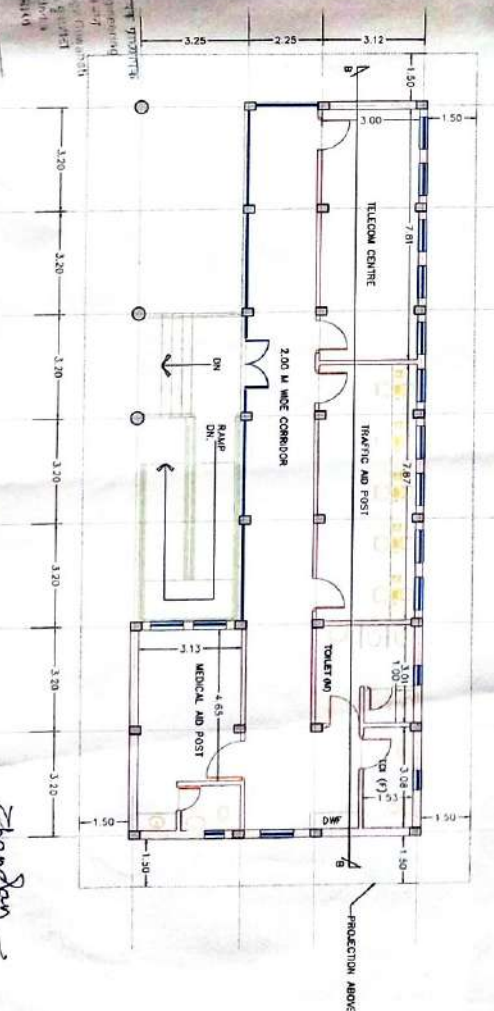
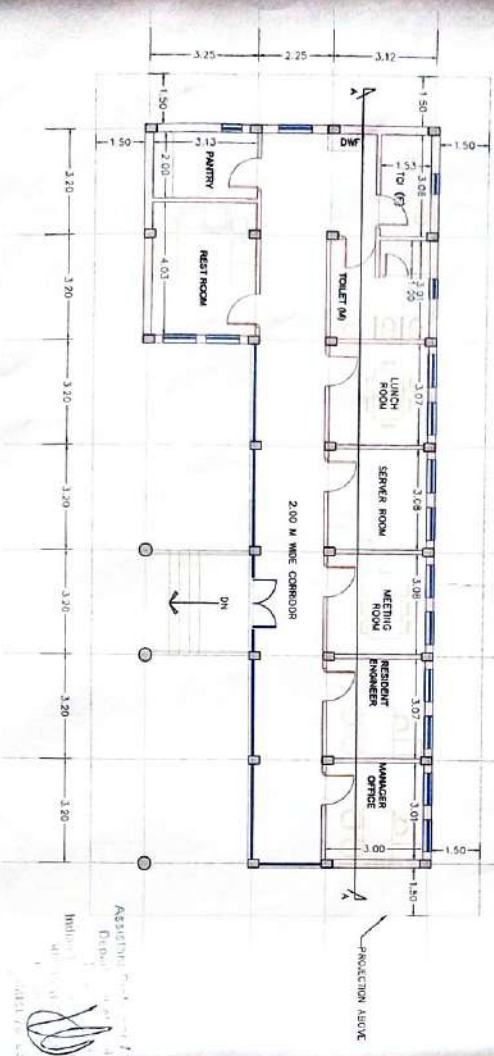
Chandra
 Safety Consultant
 ABR Techno Consultants (P) Pvt. Ltd
 Guwahati



SECTION - A-A



SECTION - B-B



Signature
Safety Consultant
ARV Techno Consultants (P) Ltd
Bhubaneswar

PROJECT		CLIENT		CONSULTANT		PROJECT CONSULTANT		SAFETY CONSULTANT		AUTHORITY ENDORSE		SCALE		TOL PLAZA DETAILS	
MODERN BYPASS ROAD (PHASE 2)		Reliance Infrastructure Development Corporation Limited		M/S. MAHAPATRA ENGINEERING & ARCHITECTURE PVT. LTD.		MAHAPATRA ENGINEERING & ARCHITECTURE PVT. LTD.		AMRTECHNO CONSULTANTS (INDIA) PVT. LTD.		Team Lead: [Signature]		VERTICAL - 1:200		Typical Toll Building	
ROAD LAYOUT OF PHASE 2 FROM END OF MODERN BYPASS ROAD TO BOHARIL JUNCTION NEAR LANE INTERSECTION IN THE STATE OF ODISHA, INDIA. PHASE 2, ON BOHARIL JUNCTION ROAD.		Reliance Infrastructure Development Corporation Limited		M/S. MAHAPATRA ENGINEERING & ARCHITECTURE PVT. LTD.		MAHAPATRA ENGINEERING & ARCHITECTURE PVT. LTD.		AMRTECHNO CONSULTANTS (INDIA) PVT. LTD.		Team Lead: [Signature]		HORIZONTAL - 1:2000		REVISION: R0	
PROJECT NO. NHDC/MBR/TOL/4		DATE: JAN 2020		PREPARED: P.G.		DESIGNED: MMD		CHECKED: DCR		APPROVED: SS		DATE: JAN 2020		REVISION: R0	