

DELHI➡



EXISTING IR TRACK

PROPOSED DFCC TRACK

PROW PROW

DFCC ROW LINE

IR-TOE IR-TOE

EXISTING IR TOE LINE

TOEL TOEL

DFCC TOE LINE

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/PH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.



EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

DRAWING NO.							SIZE	REV	SCALE
D	2	AL	0	0	9	1	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

DRAWING STAGE

SYSTRA **Mott MacDonald**



STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

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COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

[illegible]

DELHI➡



Diagram illustrating the track layout with the following labels:

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN AS 65 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC., INTERFERING DFC TRACKS SHALL BE RELOCATED.
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS $< 1.75m$, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.



DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : **ALIGNMENT PLAN & PROFILE**
FROM KM. 228/600 TO KM. 229/800

REVIEWS

☐ FOR APPROVAL☒ GOOD FOR CONSTRUCTION

SYSTRA  SYSTRA - Mott
MacDonald JV

GIL - SIL JV

DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

SUBMITTED BY **GIL-SIL JV**

CHKD.	04/07/2019	Renee Balk Gargola	<i>[Signature]</i>
APPD.	04/02/2013	NISHU PTHK SINGHA	<i>[Signature]</i> 04.02.19

	DATE	NAME	SIGN.
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←HOWRAH

Chainage CH-229800 CH-231000

DELHI→

SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROW — PROW PROPOSED DFCC TRACK
- IR-TOE — IR-TOE DFCC ROW LINE
- TOEL — TOEL EXISTING IR TOE LINE
- TOEL — TOEL DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE
FROM KM. 229/800 TO KM. 231/000

DRAWING NO.

SIZE

REV

SCALE

D	2	AL	0	0	9	3	A1	0	HOR:- 1 : 2000, VER:- 1 : 200
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REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

PMC :



SYSTRA - Mott MacDonald JV

CONTRACTOR :



GIL - SIL JV



DESIGN CONSULTANT:

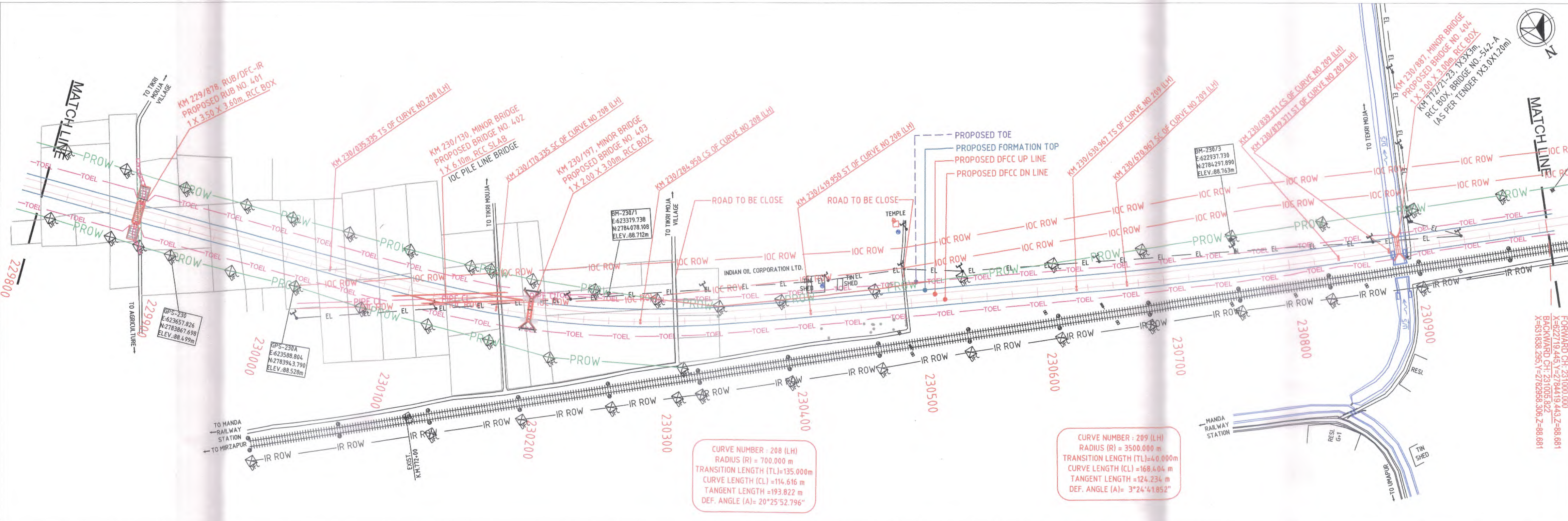
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 04/02/2013	T.C.	
CHKD. 04/02/2013		
APPD. 04/02/2013	S. MITRA	
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 04/02/2013	Ranabhai Gargi	
APPD. 04/02/2013	WISHU CHAKRABARTY	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 20/02/2019	ANURAGAN PRASAD	
NOC 20/02/2019	RAMERIKANOS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

THIS DRAWING IS THE PROPERTY OF GIL - SIL JV IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



DELHI➡



Diagram illustrating the track layout with the following components:

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS $< 1.75m$, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.



DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

ALIGNMENT PLAN & PROFILE

FROM KM. 231/000 TO KM. 232/200

REVIEWS		
REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

☒ GOOD FOR CONSTRUCTION

SYSTRA  SYSTRA - Mott
MacDonald JV

GIL - SIL JV

DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

MUMBAI 400 021.			
	DATE	NAME	SIGN.
DRAWN	24/07/2018	TC	
CHKD.	24/07/2018		
APPD.	24/07/2018		

SUBMITTED BY **GIL-SIL JV**

	DATE	NAME	SIGN
CHKD.	24/11/2018	Reesha Patel	
APPD.	24/11/2018	NISHA K. SINGH	

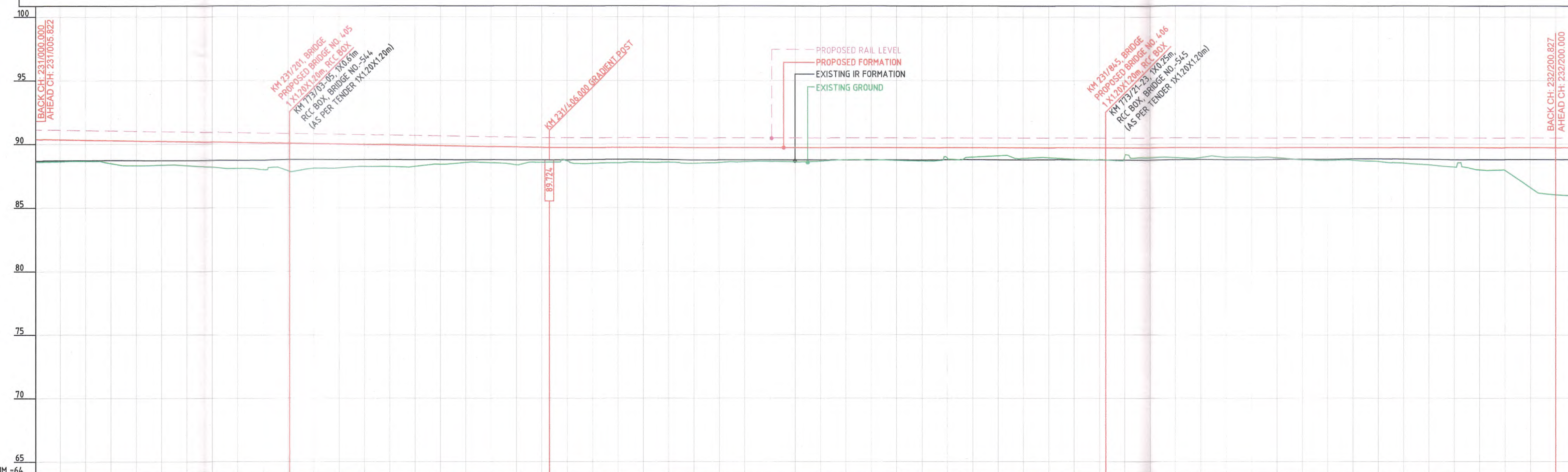
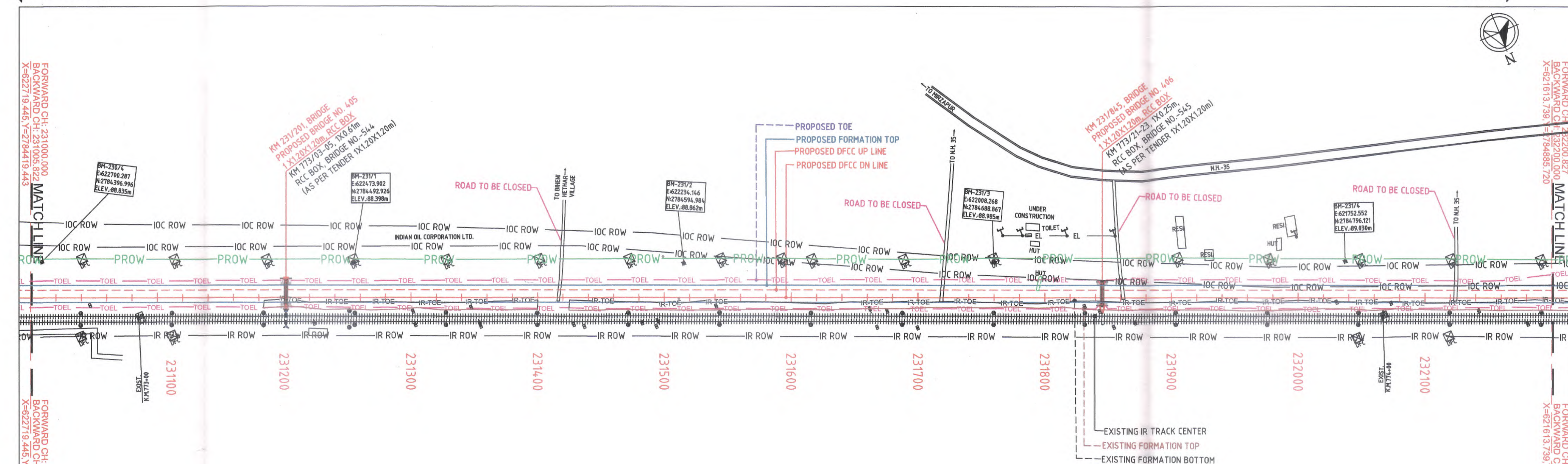
NOC BY **SYSTRA - Mott MacDonald JV**

	DATE	NAME	SIGN.
CHKD.	05/12/2018	ANURANAN PRASAD	
NOC	05/12/2018	P. AMERIKANOS	

APPROVAL BY **DFCC**

	DATE	NAME	SIGN.
CHKD.			
APPD.			

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COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



VERTICAL ALIGNMENT	L=506.000m G=-0.160% (1 IN 624.391)		L=820.000m G=0.000% (LEVEL)		L=820.000m G=0.000% (LEVEL)	
	L=2481.958m		L=2481.958m		L=2481.958m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	8394	9759	10604	11391	12849	13433
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	14,750	14,706	14,673	14,683	14,681	14,635
FILL (+)/ CUT (-)	1.770	1.711	1.651	1.785	1.861	1.867
PROPOSED FORMATION LEVELS	90.374	90.342	90.310	90.278	90.246	90.214
EXIST. IR FORMATION LEVELS	88.687	88.703	88.715	88.730	88.746	88.704
GROUND LEVELS	88.604	88.631	88.659	88.693	88.728	88.715
CHAINAGE	231000	231020	231040	231060	231080	231100
THROUGH CHAINAGE	231120	231140	231160	231180	231200	231220

HOWRAH

DELHI

Chainage CH-232200 CH-233400

SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW
- IR-TOE
- TOEL
- EXISTING IR TOE LINE
- DFCC TOE LINE

- NOTES:-
1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
 5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
 9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
 10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :
ALIGNMENT PLAN & PROFILE
FROM KM. 232/200 TO KM. 233/400

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 9 5	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE
☐ FOR APPROVAL
☒ GOOD FOR CONSTRUCTION

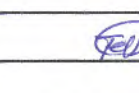
PMC :
 SYSTRA - Mott MacDonald JV

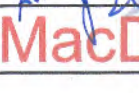
CONTRACTOR :
 GIL - SIL JV

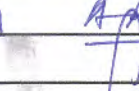
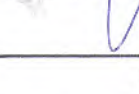
DESIGN CONSULTANT:
 STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

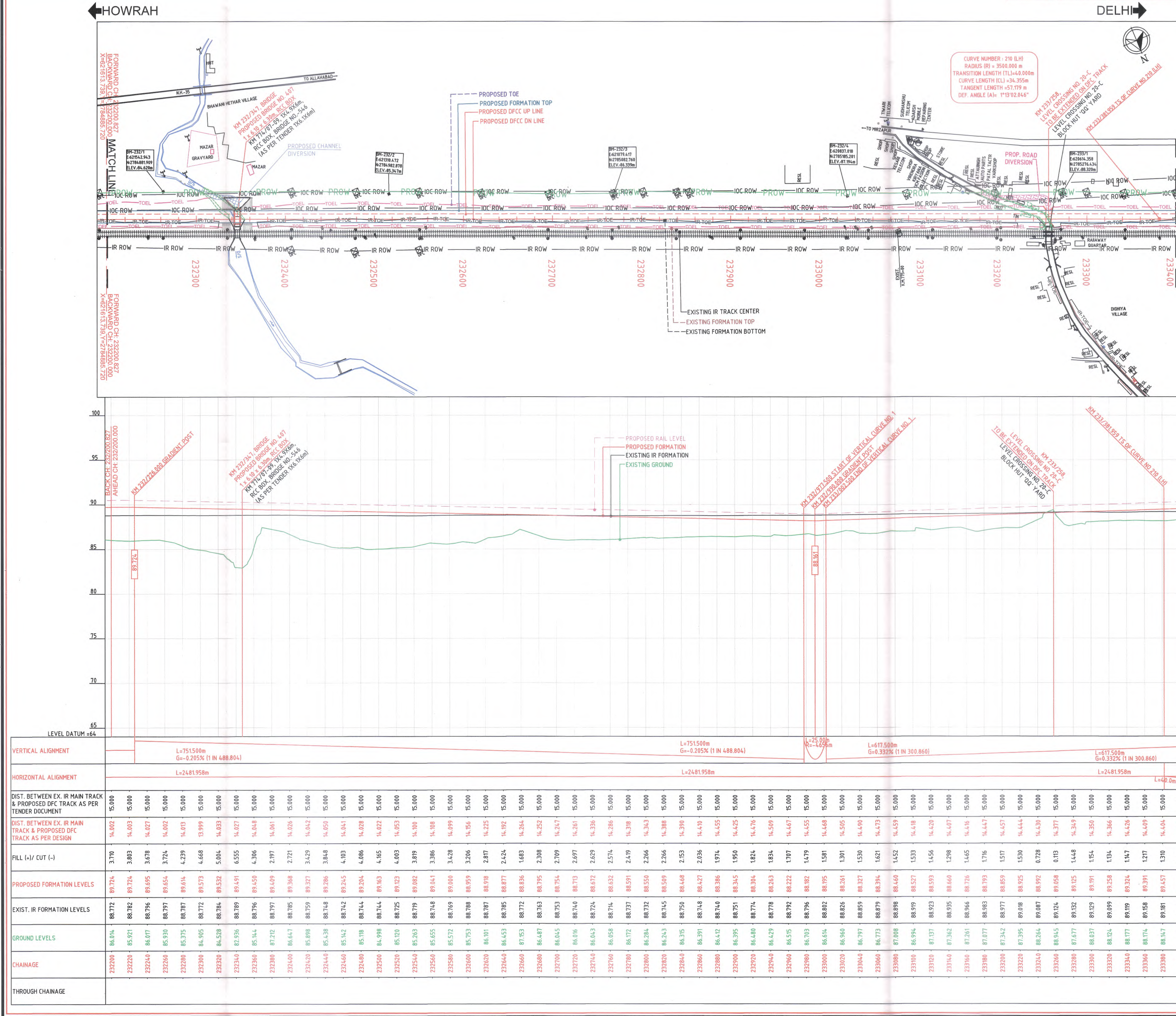
DATE	NAME	SIGN.
24/07/2018	TC	
24/07/2018		
24/07/2018		

SUBMITTED BY: GIL-SIL JV
DATE: 24/11/2018
NAME: Poojashree Ghoshal
SIGN: 
APPD. 24/11/2018
NAME: NISHIKANTH KUSINSHI
SIGN: 

NOC BY: SYSTRA - Mott MacDonald JV
DATE: 05/12/2018
NAME: ANURANJAN DEASIA
SIGN: 
APPD. 05/12/2018
NAME: P. RAMEERKANOS
SIGN: 

DATE	NAME	SIGN.

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HOWRAH

Chainage CH-233400, CH-234600

DELHI

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH.
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE FROM KM. 233/400 TO KM. 234/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 9 6	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE
☐ FOR APPROVAL
☒ GOOD FOR CONSTRUCTION

PMc : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

DATE	NAME	SIGN.
24/07/2018	TE	

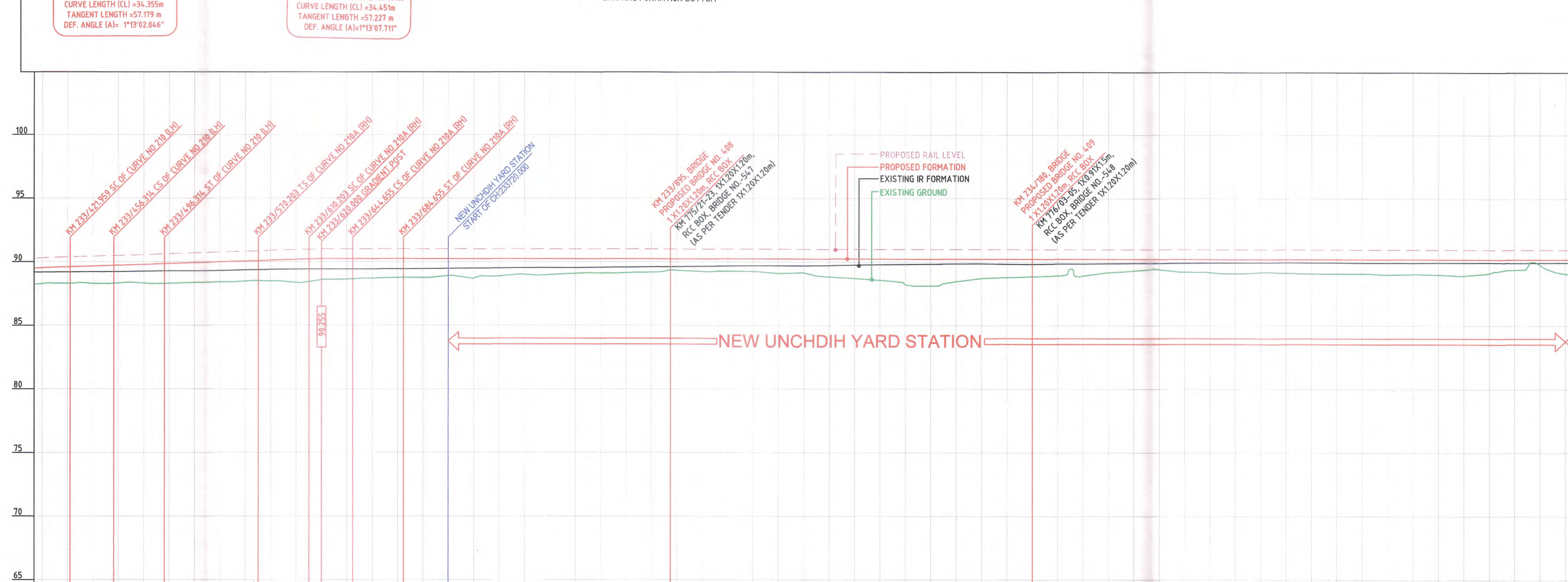
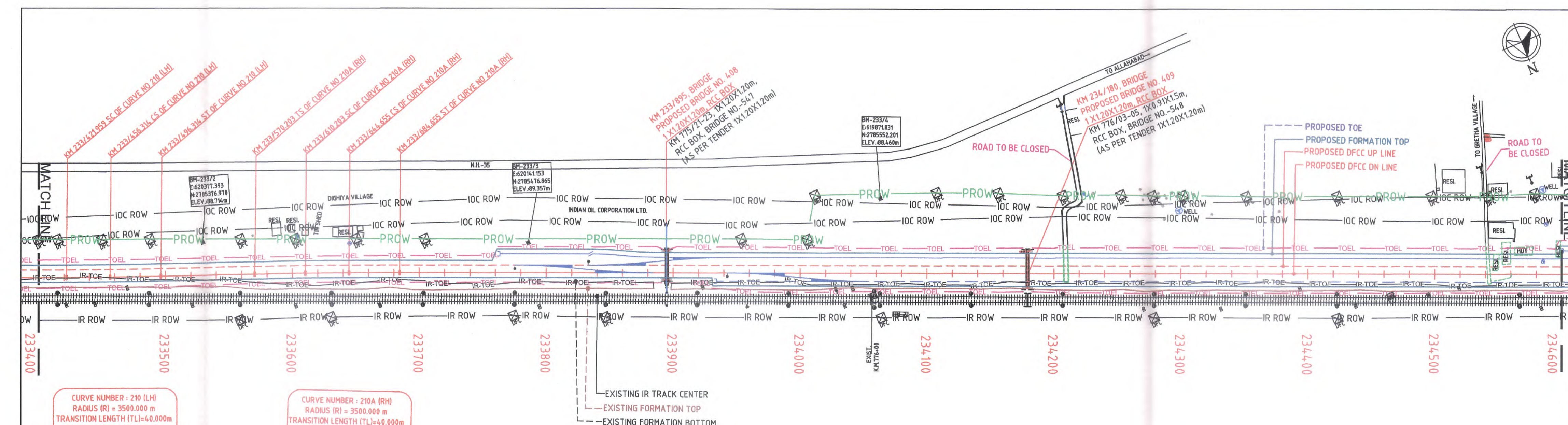
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

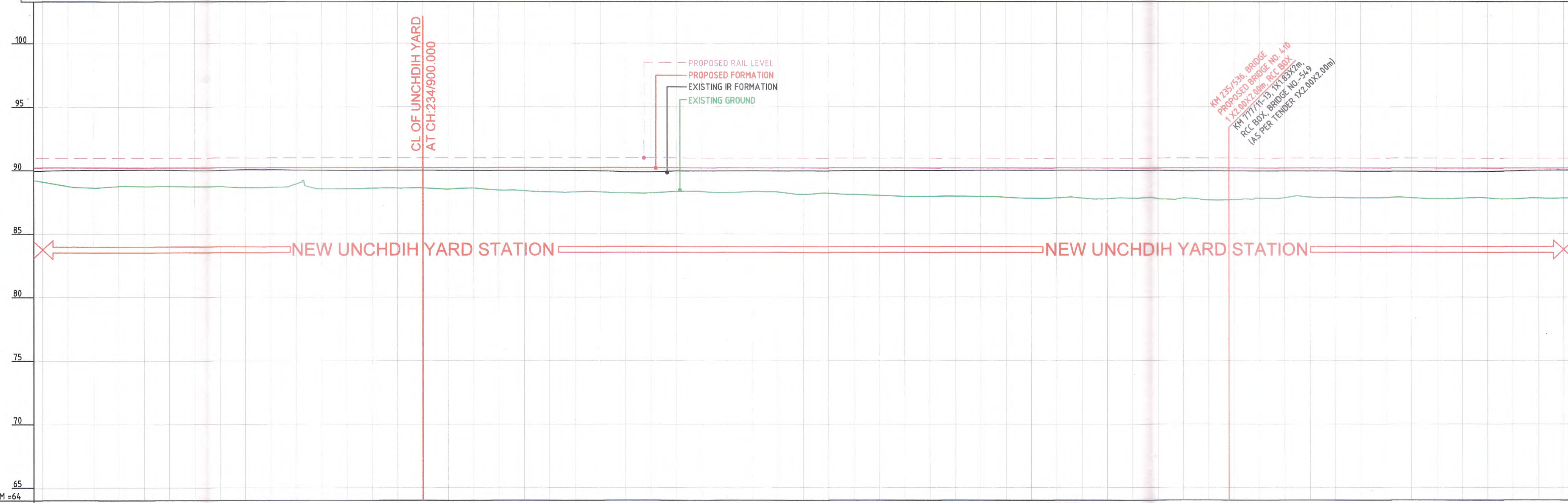
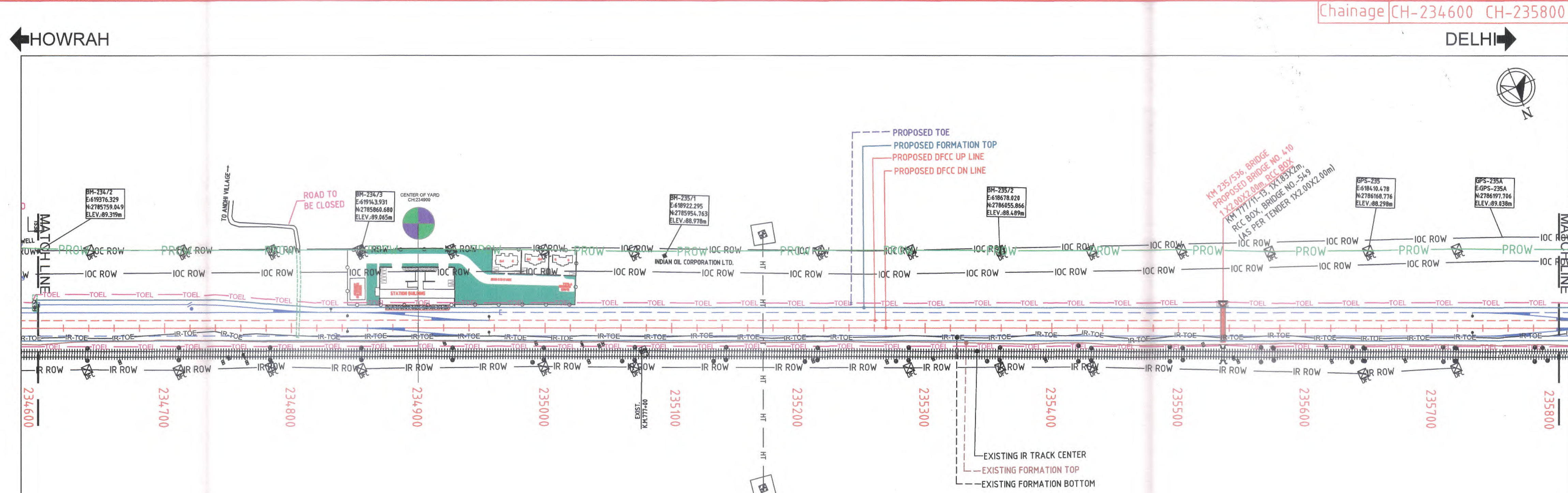
APPROVAL BY DFCC

DATE	NAME	SIGN.
05/12/2018	ANURANJAN PRASAD	

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VERTICAL ALIGNMENT	L=617.500m G=0.332% (1 IN 300.860)	L=2515.000m G=-0.004% (1 IN 23952.381)	L=2515.000m G=-0.004% (1 IN 23952.381)
HORIZONTAL ALIGNMENT	L=40m R=3500m L=36.355m	L=73.889m R=3500m L=34.451m	L=2337.516m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	15.000	15.000	15.000
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	14.299	14.401	14.299
FILL (+)/ CUT (-)	12.47	12.83	12.83
PROPOSED FORMATION LEVELS	89.524	89.590	89.590
EXIST. IR FORMATION LEVELS	89.173	89.182	89.182
GROUND LEVELS	88.277	88.307	88.307
CHAINAGE	233400	233400	233400
THROUGH CHAINAGE			



VERTICAL ALIGNMENT	L=2515.00m G=-0.004% (1 IN 23952.381)		L=2515.00m G=-0.004% (1 IN 23952.381)	
	L=2337.516m		L=2337.516m	
HORIZONTAL ALIGNMENT	L=2515.00m G=-0.004% (1 IN 23952.381)		L=2515.00m G=-0.004% (1 IN 23952.381)	
	L=2337.516m		L=2337.516m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	15.00	15.00	15.00	15.00
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	18.394	18.399	18.402	18.399
FILL (+)/ CUT (-)	1.120	1.465	1.589	1.467
PROPOSED FORMATION LEVELS	90.214	90.213	90.212	90.211
EXIST. IR FORMATION LEVELS	89.955	90.002	90.010	90.032
GROUND LEVELS	89.094	88.748	88.623	88.745
CHAINAGE	234600	234620	234640	234660
THROUGH CHAINAGE	234600	234620	234640	234660

SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW
- DFCC ROW LINE
- IR-TOE
- EXISTING IR TOE LINE
- TOEL
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE FROM KM. 234/600 TO KM. 235/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 9 7	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

- ☐ FOR APPROVAL
- ☒ GOOD FOR CONSTRUCTION

PMC :



SYSTRA - Mott MacDonald JV

CONTRACTOR :



GIL - SIL JV



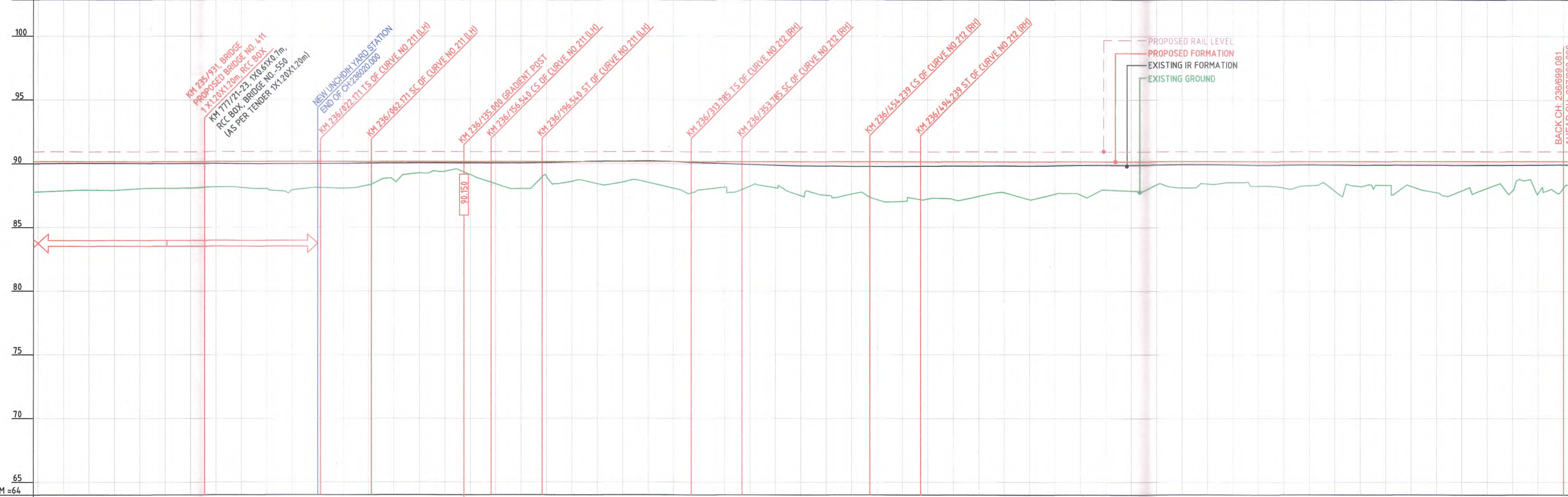
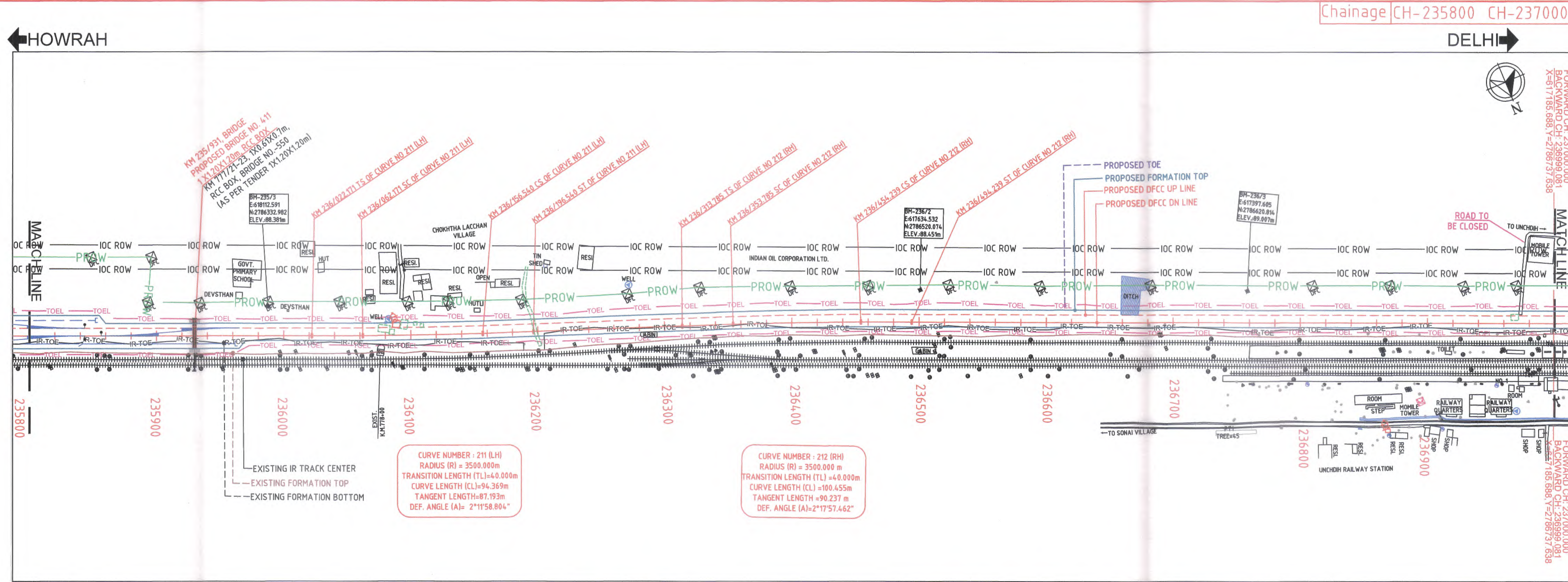
DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

DATE	NAME	SIGN.
24/07/2018	T.C	
24/07/2018		
24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
24/11/2018	Reeghali Ghosh	
24/11/2018	NISHAGETH K. SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
05/12/2018	ANURANJAN PRASAD	
05/12/2018	RAMERIKANJAS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.

THIS DRAWING IS THE PROPERTY OF GIL - SIL JV IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



VERTICAL ALIGNMENT	L=2515.000m G=-0.004% (1 IN 23952.381)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
HORIZONTAL ALIGNMENT	L=2337.516m									
	L=4.0.000m									
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
FILL (+) / CUT (-)	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
PROPOSED FORMATION LEVELS	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
EXIST. IR FORMATION LEVELS	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
GROUND LEVELS	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
CHAINAGE	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									
THROUGH CHAINAGE	L=3245.000m G=0.003% (1 IN 31124.113)									
	L=3245.000m G=0.003% (1 IN 31124.113)									

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH.
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE FROM KM. 235/800 TO KM. 237/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 9 8	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV

DESIGN CONSULTANT:

STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :

1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

DATE	NAME	SIGN.
24/07/2018	TC	
24/07/2018		
24/07/2018		

SUBMITTED BY GIL-SIL JV

DATE	NAME	SIGN.
24/11/2018	Prasanna Ghosh	
24/11/2018	NISHITH K. SINGH	

NOC BY SYSTRA - Mott MacDonald JV

DATE	NAME	SIGN.
25/12/2018	ANURANJAN PRASAD	
05/12/2018	DAMERIKANT	

APPROVAL BY DFCC

DATE	NAME	SIGN.

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Chainage CH-237000 CH-238200

SECTION-CP-201

HOWRAH

DELHI



LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW
- DFCC ROW LINE
- IR-TOE
- EXISTING IR TOE LINE
- TOEL
- DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH.
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE FROM KM. 237/000 TO KM. 238/200

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 9 9	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

- ☐ FOR APPROVAL
- ☒ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV



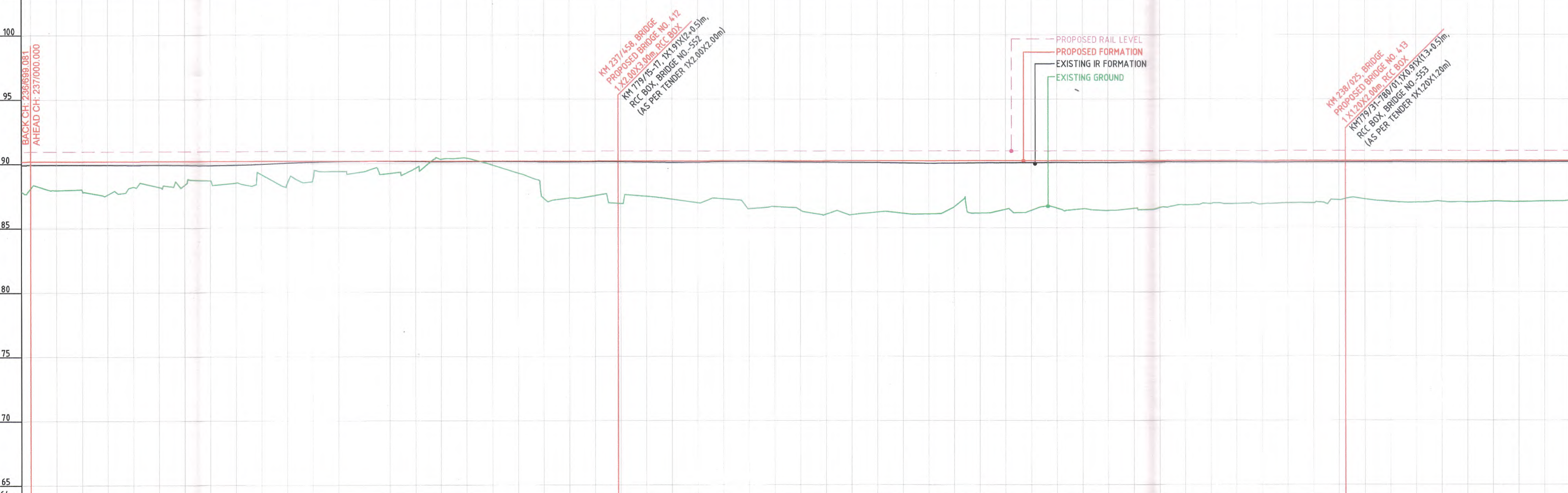
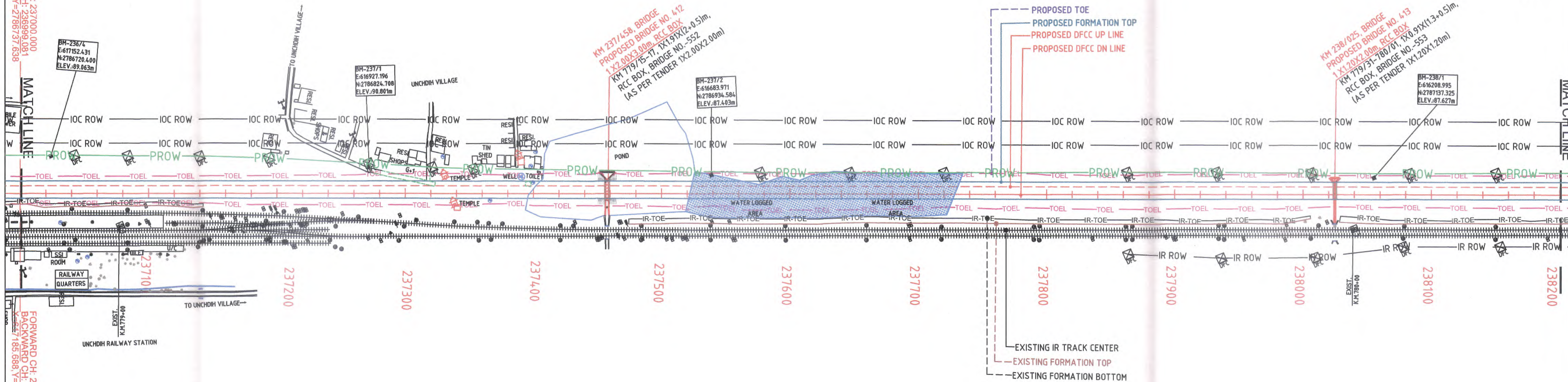
DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 24/07/2018	TC	TC
CHKD. 24/07/2018		
APPD. 24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 24/11/2018	Pratik Gupta	Pratik Gupta
APPD. 24/11/2018	NISHITH SINGH	NISHITH SINGH
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 05/12/2018	ANURANJAN DAS	ANURANJAN DAS
NOC 05/12/2018	PAMERIKHANS	PAMERIKHANS
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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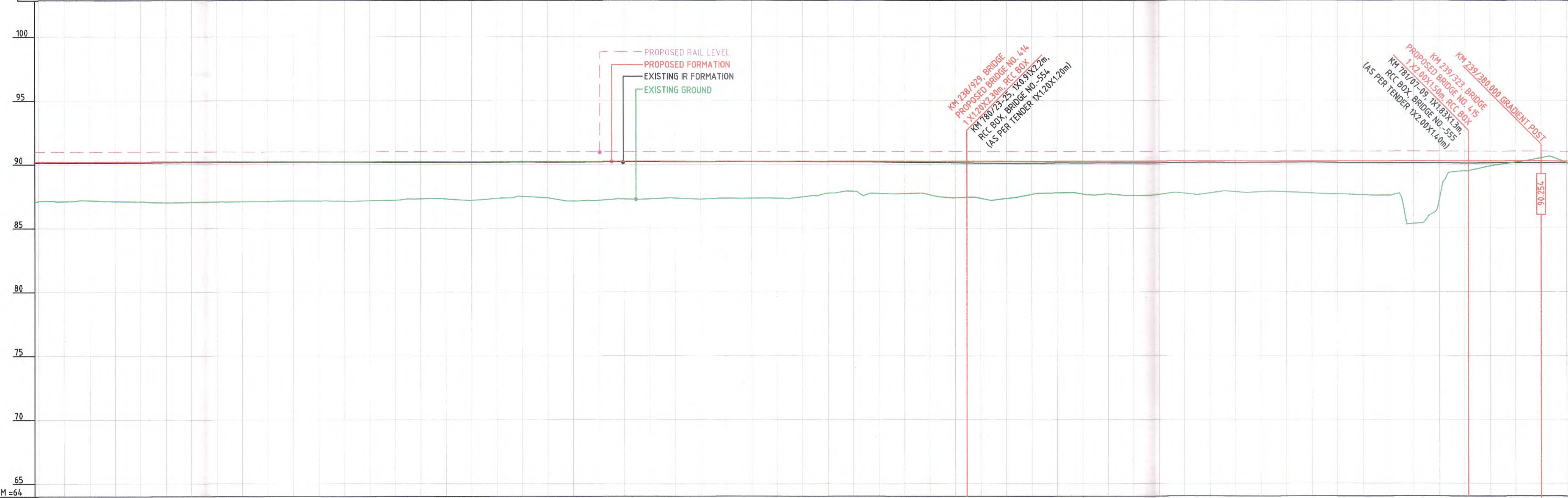
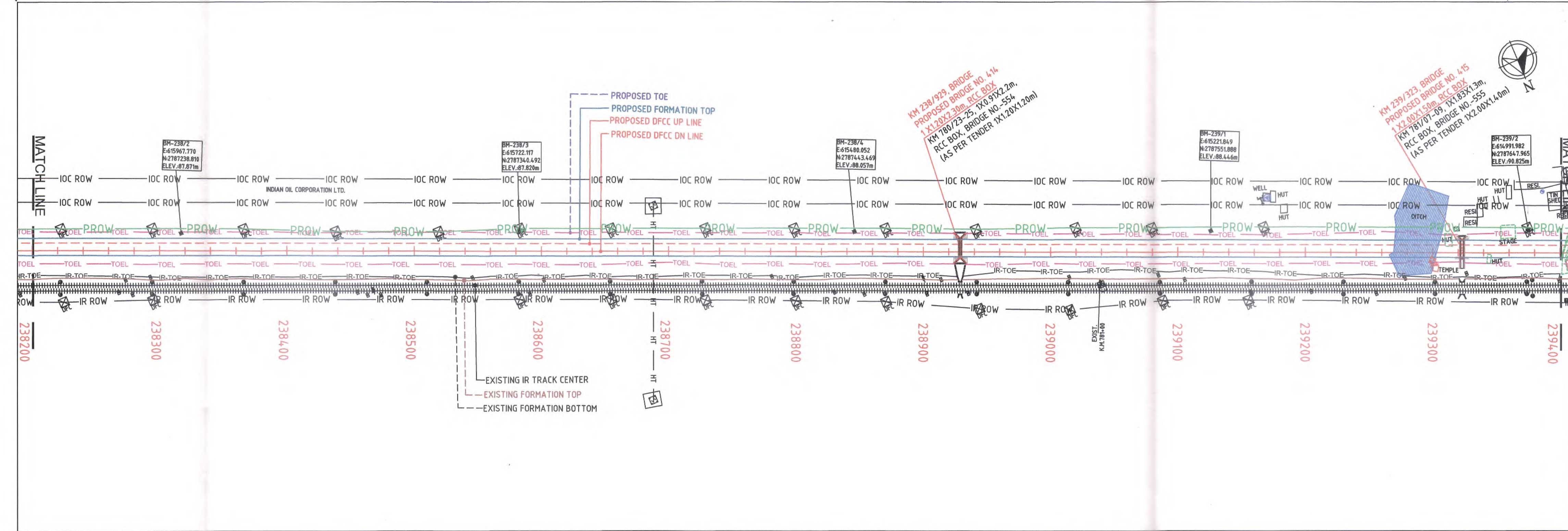
VERTICAL ALIGNMENT	L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)	
HORIZONTAL ALIGNMENT	L=3594.156m		L=3594.156m		L=3594.156m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	11.995	11.983	11.971	12.047	12.212	12.377
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	15.343	15.257	15.186	15.109	15.177	15.275
FILL (+)/ CUT (-)	2.086	2.234	2.179	2.579	1.960	1.993
PROPOSED FORMATION LEVELS	90.178	90.178	90.179	90.180	90.180	90.181
EXIST. IR FORMATION LEVELS	89.900	89.900	89.898	89.896	89.882	89.880
GROUND LEVELS	88.092	87.944	88.000	87.601	88.220	88.088
CHAINAGE	237000	237020	237040	237060	237080	237100
THROUGH CHAINAGE	237000	237020	237040	237060	237080	237100

Chainage CH-238200 CH-239400

SECTION-CP-201

HOWRAH

DELHI



VERTICAL ALIGNMENT	L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)	
	L=3594.156m		L=3594.156m		L=3594.156m	
HORIZONTAL ALIGNMENT	L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)		L=3245.000m G=0.003% (1 IN 31124.113)	
	L=3594.156m		L=3594.156m		L=3594.156m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	15.960	16.370	16.780	17.190	17.600	18.010
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	27.214	27.199	27.164	27.154	27.141	27.074
FILL (+) / CUT (-)	3.098	3.115	3.045	3.112	3.126	3.176
PROPOSED FORMATION LEVELS	90.216	90.217	90.217	90.218	90.219	90.220
EXIST. IR FORMATION LEVELS	90.127	90.114	90.121	90.120	90.114	90.150
GROUND LEVELS	87.116	87.102	87.172	87.105	87.093	87.044
CHAINAGE	238200	238220	238240	238260	238280	238300
THROUGH CHAINAGE	238200	238220	238240	238260	238280	238300

LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW
- IR-TOE
- TOEL
- EXISTING IR TOE LINE
- DFCC TOE LINE

- NOTES:-
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
 - EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 - PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
 - AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
 - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 238/200 TO KM. 239/400

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 1 0 0	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

DATE	NAME	SIGN.
24/07/2018	TC	
24/07/2018		
24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
24/11/2018	Rishabh Choudhary	
24/11/2018	NISHU CHHAIKAR SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
24/11/2018	ANURANJAN PRASAD	
24/11/2018	RAMESH KANTH	
APPROVAL BY DFCC		
DATE	NAME	SIGN.

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HOWRAH

Chainage CH-239400 CH-240600

DELHI

SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROW — PROW — DFCC ROW LINE
- IR-TOE — IR-TOE — EXISTING IR TOE LINE
- TOEL — TOEL — DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFCC DOWN LINE
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE
FROM KM. 239/400 TO KM. 240/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 01101	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS		
REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

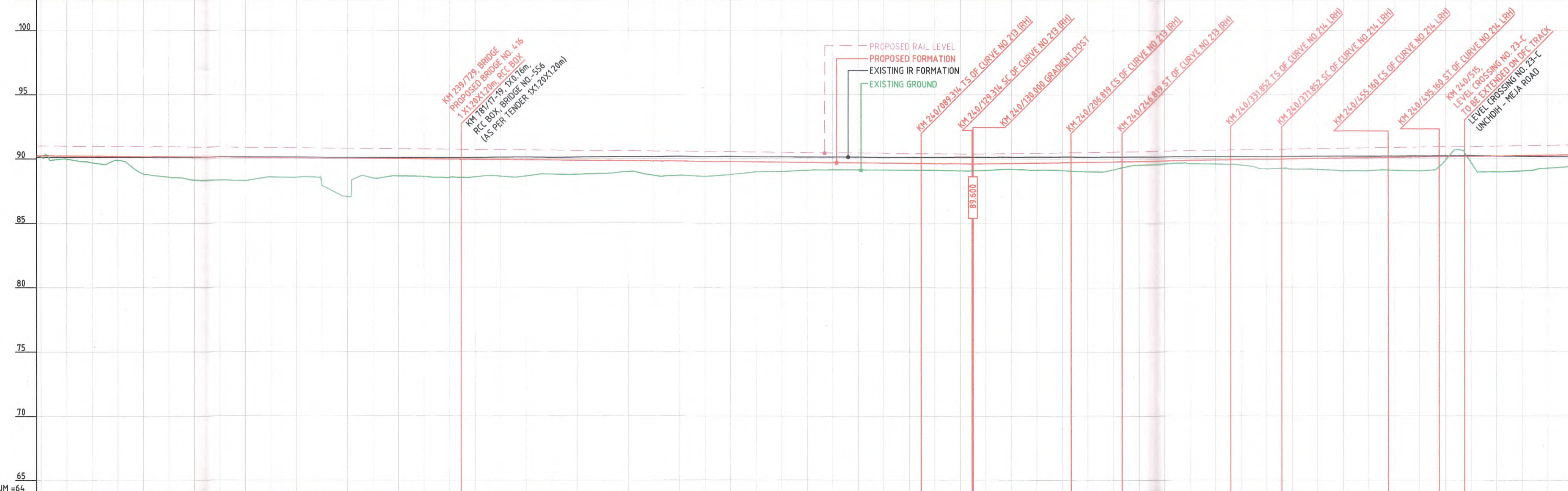
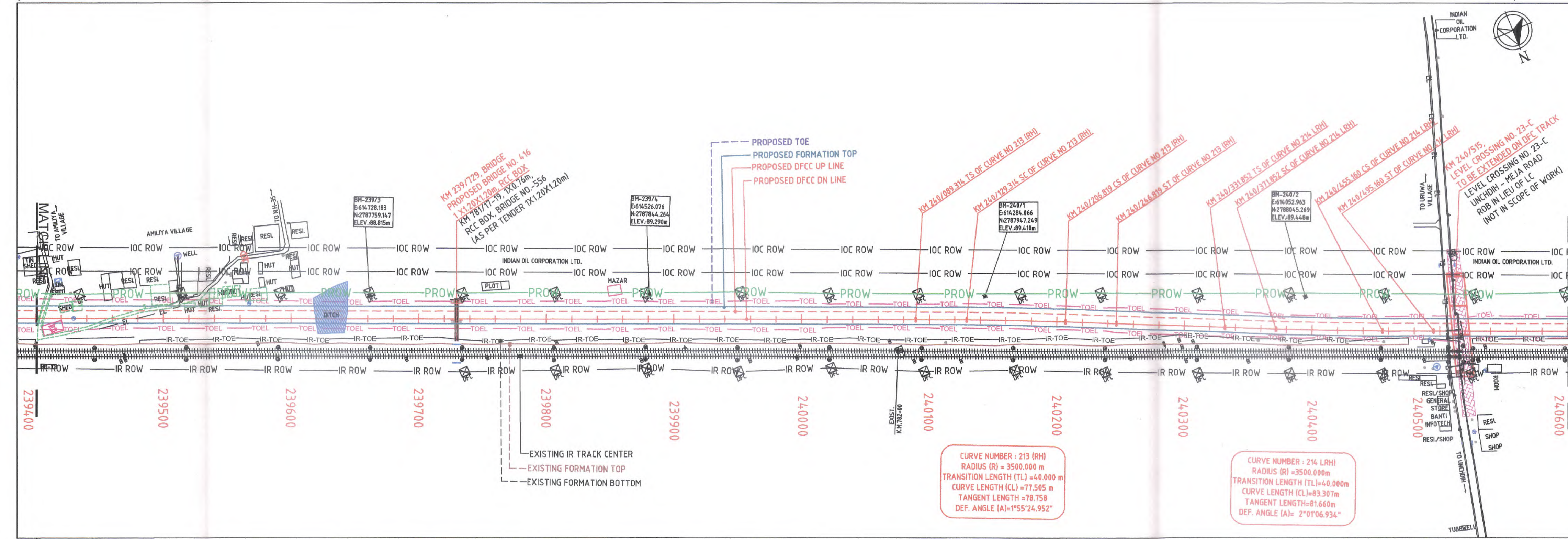
PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

DATE	NAME	SIGN.
DRAWN 24/07/2018	TC	
CHKD. 24/07/2018		
APPD. 24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 24/11/2018	Prasanna Garg	
APPD. 24/11/2018	NISHITH SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 05/12/2018	ANURANJAN PRASAD	
NOC 12/12/2018	P. MERIKANOS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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VERTICAL ALIGNMENT	L=750.000m G=-0.087% (1 IN 1146.333)		L=750.000m G=0.153% (1 IN 652.174)		L=750.000m G=0.153% (1 IN 652.174)	
HORIZONTAL ALIGNMENT	L=3594.156m		L=40.000m	R=3500.000m	L=40.000m	L=85.034m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	28.15	25.37	25.36	25.36	25.36	25.36
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	25.37	25.37	25.36	25.36	25.36	25.36
FILL (+) / CUT (-)	0.11	0.25	0.59	0.38	0.38	0.38
PROPOSED FORMATION LEVELS	90.237	90.237	90.237	90.237	90.237	90.237
EXIST. IR FORMATION LEVELS	90.103	90.103	90.103	90.103	90.103	90.103
GROUND LEVELS	90.126	89.968	89.683	89.076	88.833	88.321
CHAINAGE	239400	239400	239400	239400	239400	239400
THROUGH CHAINAGE	239400	239400	239400	239400	239400	239400

Chainage CH-240600 CH-241800

SECTION-CP-201

HOWRAH

DELHI



LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW PROW
- IR-TOE IR-TOE
- TOEL TOEL
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

**ALIGNMENT PLAN & PROFILE
FROM KM. 240/600 TO KM. 241/800**

DRAWING NO. SIZE REV SCALE

D 2 AL 0 1 0 2 A1 0 HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV



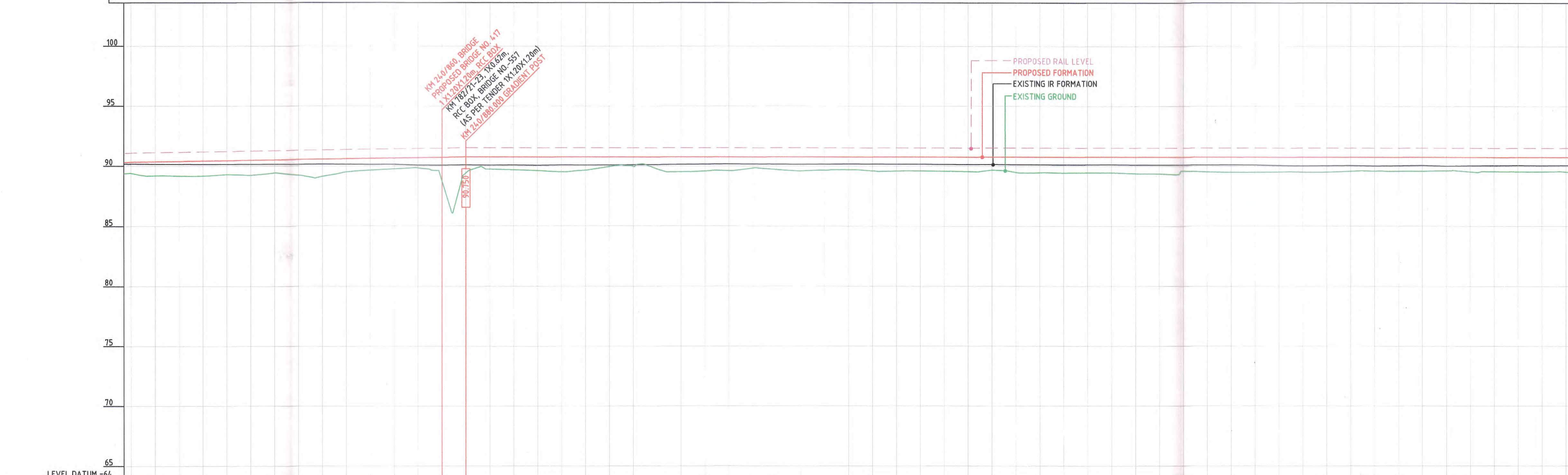
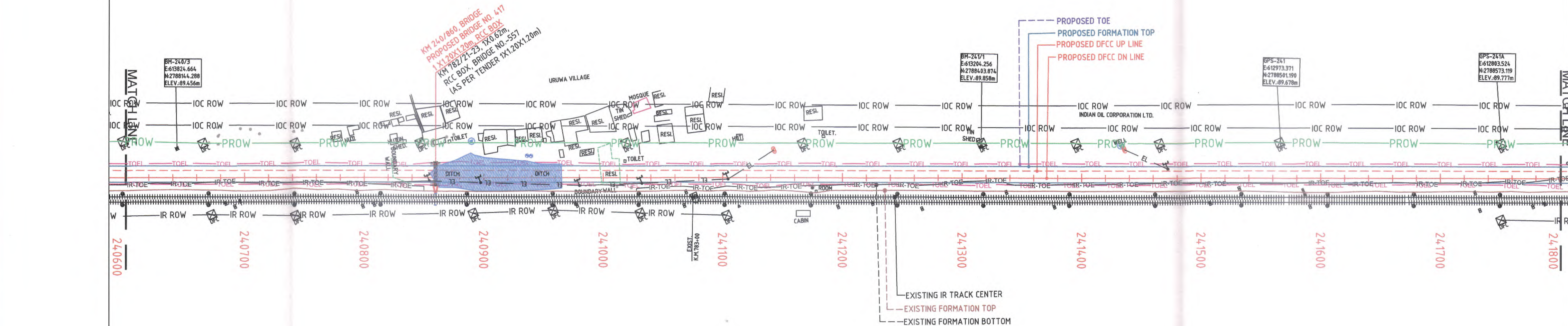
DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 24/07/2018		
CHKD. 24/07/2018	TC	
APPD. 24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 24/11/2018	Rishabh Gupta	
APPD. 24/11/2018	NISHU K. SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 06/12/2018	ANURAGAN PRASAD	
NOC 15/12/2018	RAMESH K. SINGH	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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VERTICAL ALIGNMENT	L=750.000m G=0.153% (1 IN 652.174)	L=1140.000m G=0.000% (LEVEL)	L=1140.000m G=0.000% (LEVEL)	L=1140.000m G=0.000% (LEVEL)
HORIZONTAL ALIGNMENT	L=3991.473m	L=3991.473m	L=3991.473m	L=3991.473m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	25.000	25.000	25.000	25.000
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	15.842	15.842	15.842	15.842
FILL (+)/ CUT (-)	0.932	1.175	1.225	1.245
PROPOSED FORMATION LEVELS	90.321	90.351	90.382	90.413
EXIST. IR FORMATION LEVELS	90.157	90.145	90.140	90.130
GROUND LEVELS	89.389	89.176	89.157	89.168
CHAINAGE	240600	240620	240640	240660
THROUGH CHAINAGE	240600	240620	240640	240660

Chainage CH- 241800 CH-243000

SECTION-CP-201

HOWRAH

DELHI



LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW PROW DFCC ROW LINE
- IR-TOE IR-TOE EXISTING IR TOE LINE
- TOEL TOEL DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.75m BY CUTTING THE EARTH
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE FROM KM. 241/800 TO KM. 243/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 1 0 3	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS			
REV	DATE	REMARKS	
0	24/07/2018	DEFINITIVE	

DRAWING STAGE			
☐	FOR APPROVAL		
☒	GOOD FOR CONSTRUCTION		

PMC :

SYSTRA - Mott MacDonald JV



GIL - SIL JV



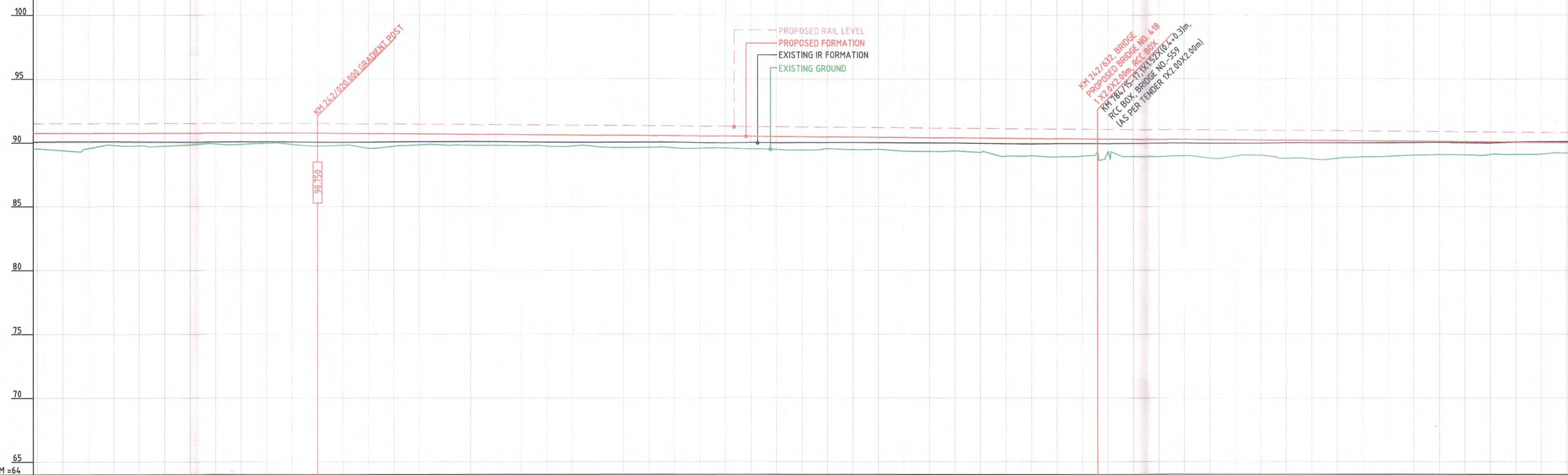
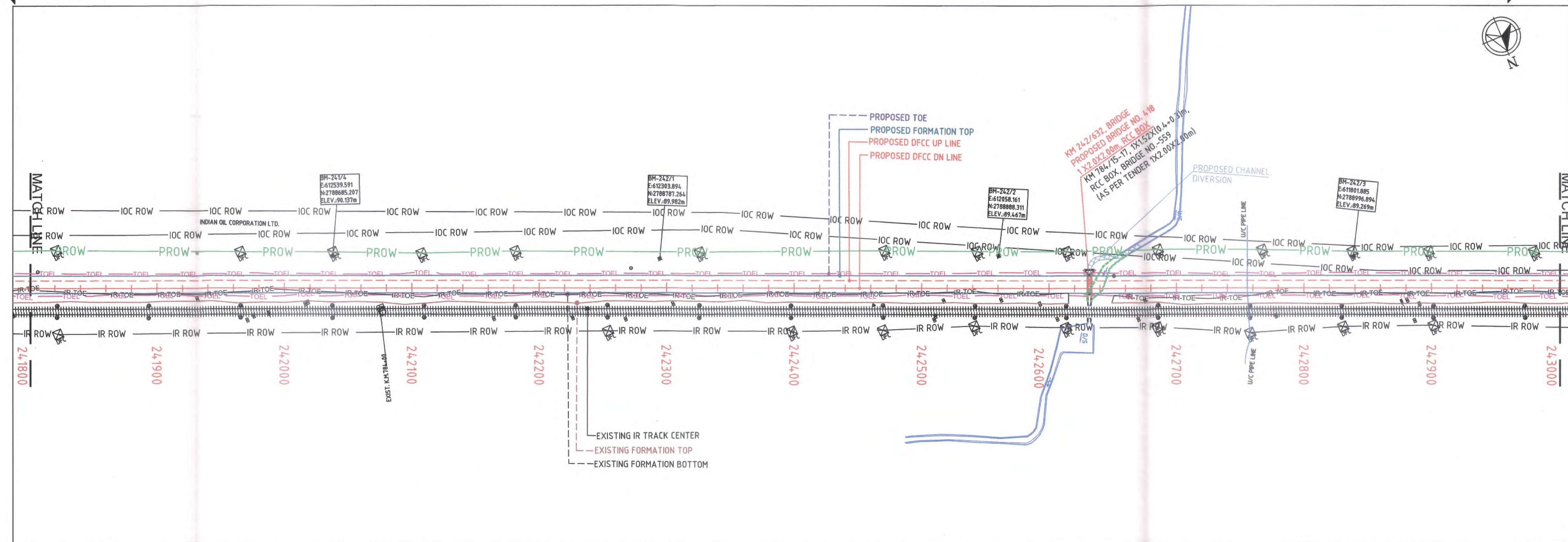
DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

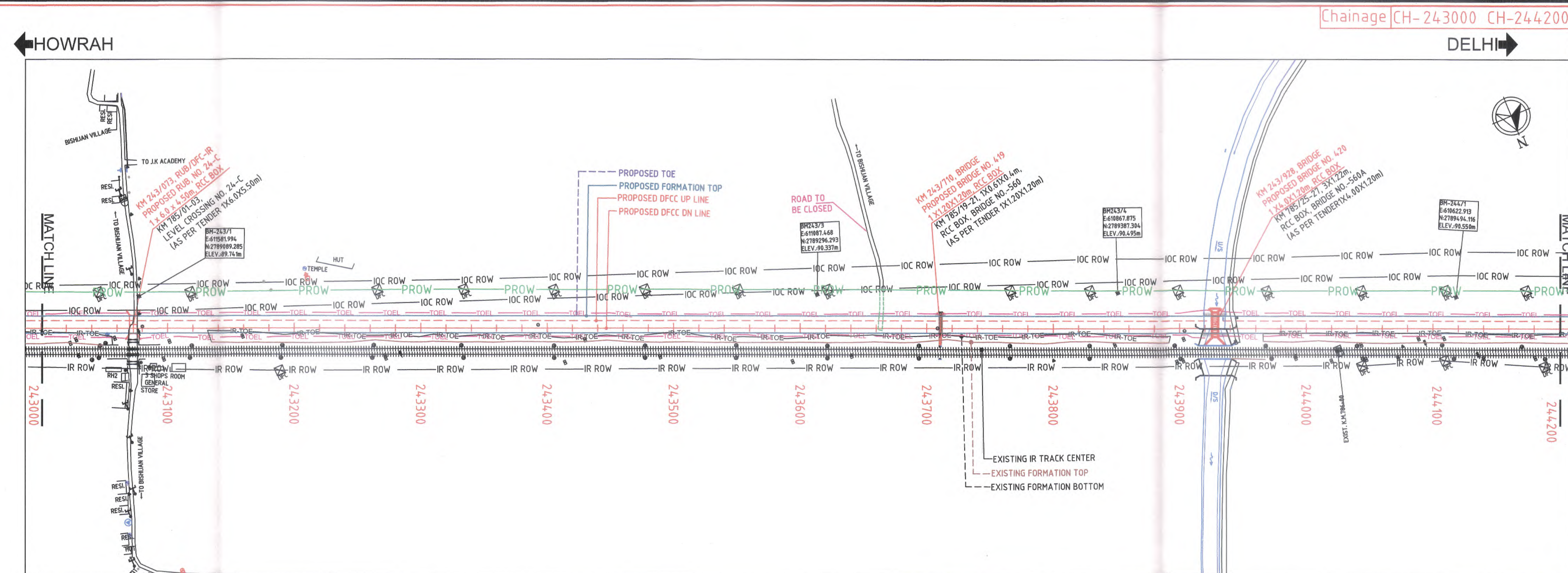
OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 24/07/2018	TC	
CHKD. 24/07/2018		
APPD. 24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 24/11/2018	Reebal Gargi	
APPD. 24/11/2018	NISHEETH K. SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 05/12/2018	ANURANJAN PRASAD	
NOC 05/12/2018	R. AMERIKANOS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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VERTICAL ALIGNMENT	L=1140.000m G=0.000% (LEVEL)	L=1000.000m G=-0.072% (1 IN 1377.410)	L=1000.000m G=-0.072% (1 IN 1377.410)
HORIZONTAL ALIGNMENT	L=3991.473m		
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	25.000	25.000	25.000
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	16.445	16.022	16.071
FILL (+)/ CUT (-)	1217	1357	1196
PROPOSED FORMATION LEVELS	90.750	90.750	90.750
EXIST. IR FORMATION LEVELS	90.072	90.081	90.089
GROUND LEVELS	89.533	89.393	89.554
CHAINAGE	241800	242000	242200
THROUGH CHAINAGE	241800	242000	242200



SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW
- DFC ROW LINE
- IR-TOE
- EXISTING IR TOE LINE
- TOEL
- DFCC TOE LINE

- NOTES:-**
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
 - EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 - PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
 - AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
 - FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : **DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.**

PROJECT : **EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)**

TITLE : **ALIGNMENT PLAN & PROFILE FROM KM. 243/000 TO KM. 244/200**

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0104	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	24/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☒ GOOD FOR CONSTRUCTION

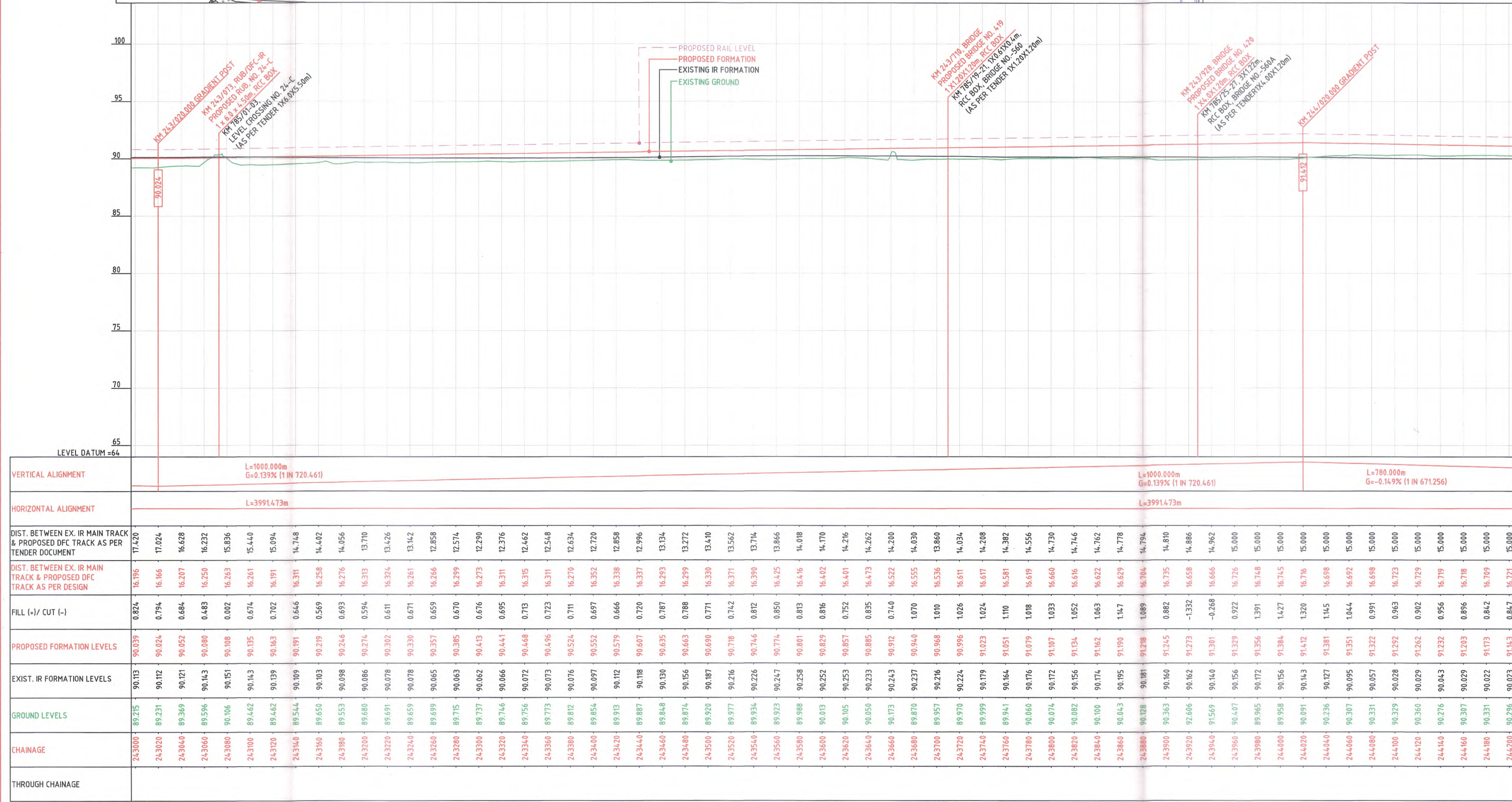
PMC : **SYSTRA - Mott MacDonald JV**

CONTRACTOR : **GIL - SIL JV**

DESIGN CONSULTANT: **STUP Consultants Pvt. Ltd.**

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

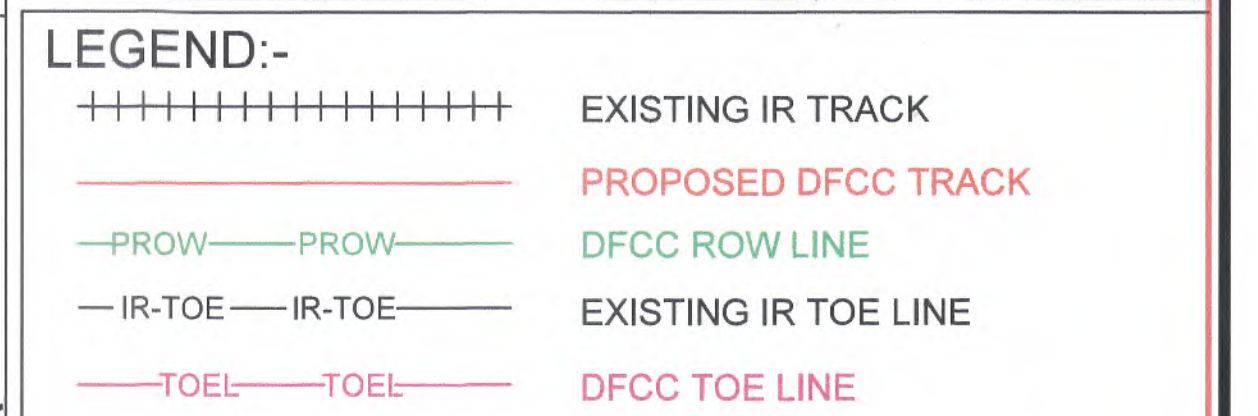


VERTICAL ALIGNMENT	L=1000.000m G=0.139% (1 IN 720.461)	L=1000.000m G=0.139% (1 IN 720.461)	L=780.000m G=-0.149% (1 IN 671.256)
HORIZONTAL ALIGNMENT	L=3991.473m	L=3991.473m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	17.420		
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	16.196		
FILL (+)/ CUT (-)	0.824	0.794	0.684
PROPOSED FORMATION LEVELS	90.039	90.024	90.052
EXIST. IR FORMATION LEVELS	90.113	90.112	90.121
GROUND LEVELS	89.215	89.231	89.369
CHAINAGE	243000	243020	243040
THROUGH CHAINAGE	243000	243020	243040

DATE	NAME	SIGN.
DRAWN 24/07/2018	TC	
CHKD. 24/07/2018		
APPD. 24/07/2018		
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 24/11/2018	Reedhok Garghita	
APPD. 24/11/2018	NISHITH K. SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 05/12/2018	ANURANJAN PRASAD	
NOC 05/12/2018	PAPERIKANOS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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DELHI➡



1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS $< 1.75m$, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

 DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

EASTERN DEDICATED FREIGHT
CORRIDOR (PACKAGE - 201)

TITLE : **ALIGNMENT PLAN & PROFILE**
FROM KM. 244/200 TO KM. 245/400

REVIEWS

			DRAWING STAGE
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☒ GOOD FOR CONSTRUCTION

SYSTRA  SYSTRA - Mott
MacDonald JV

GAR GIL - SIL JV

SUBMITTED BY **GIL-SIL JV**

NOC BY SYSTRA - Mott MacDonald JV

	DATE	M
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