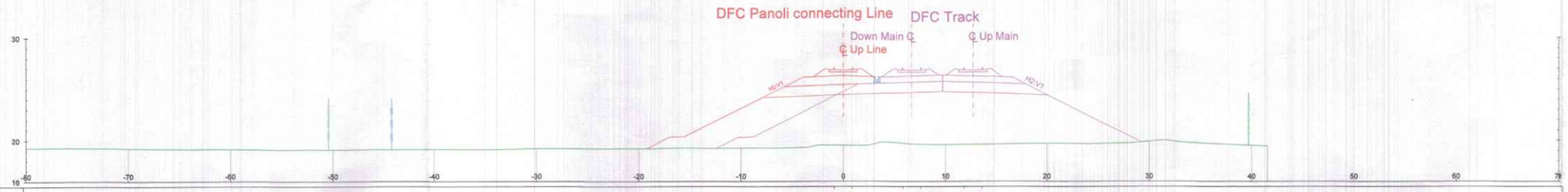
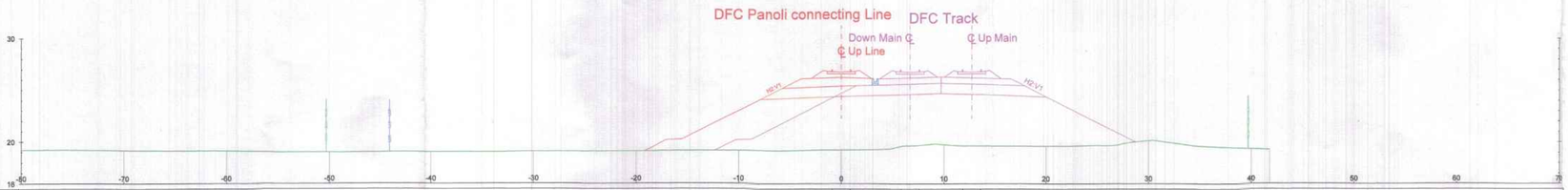


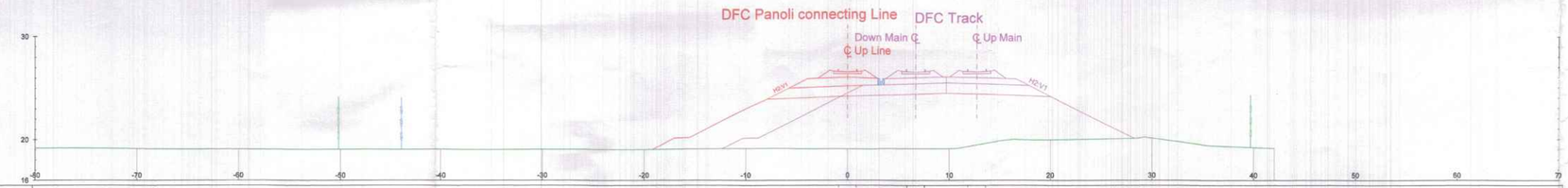
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-50.444			
-45.000	19.104		
-44.244			
-40.000	19.139		
-35.000	19.125		
-25.000	19.186		
-19.209	19.214	19.214	27.027
-17.028	19.234	20.305	27.027
-15.528	19.250	20.355	27.027
-15.000	19.250		
-5.759	19.264	25.240	27.027
-3.930	19.315	26.154	27.027
-0.000	19.501	26.285	27.027
6.700	19.628	26.255	27.027
9.700	19.691	26.355	27.027
12.700	19.600	26.255	27.027
16.630	19.635	26.124	
17.916	19.662	25.481	
20.058	19.704	24.410	
25.000	19.697		
28.233	19.622	19.622	
30.000	19.664		
35.000	19.732		
39.706			
45.000	26.255		
50.000	26.255		
55.000	26.255		

Chainage 64+780.000



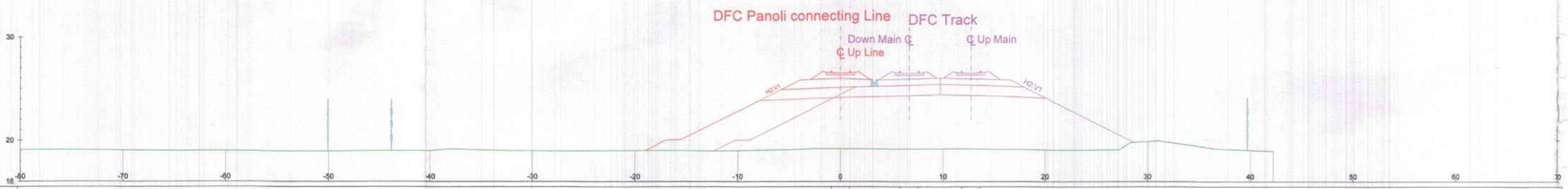
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-50.317			
-45.000	19.054		
-44.717			
-40.000	19.056		
-35.000	19.067		
-25.000	19.119		
-19.148	19.145	19.145	26.927
-17.028	19.153	20.205	26.927
-15.528	19.166	20.255	26.927
-15.000	19.168		
-5.759	19.141	25.140	26.927
-3.930	19.164	26.054	26.927
-0.000	19.205	26.185	26.927
6.700	19.617	26.155	26.927
9.700	19.754	26.255	26.927
12.700	19.599	26.155	26.927
16.630	19.567	26.024	
17.916	19.567	25.381	
20.058	19.581	24.310	
25.000	19.645		
28.737	19.970	19.970	
30.000	20.090		
35.000	19.576		
39.707			
45.000	26.155		
50.000	26.155		
55.000	26.155		

Chainage 64+800.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-50.190			
-45.000	18.991		
-43.990			
-40.000	19.000		
-35.000	19.006		
-25.000	19.029		
-19.177	19.030	19.030	26.827
-17.028	19.046	20.105	26.827
-15.528	19.059	20.155	26.827
-15.000	19.064		
-5.759	19.124	25.039	26.827
-3.930	19.100	25.954	26.827
0.000	19.078	26.085	26.827
6.700	19.113	26.055	26.827
9.700	19.118	26.155	26.827
12.700	19.458	26.055	26.827
16.630	20.000	25.924	
17.916	19.966	25.281	
20.058	19.982	24.210	
25.000	20.056		
28.270	20.104	20.104	
30.000	20.130		
35.000	19.470		
39.707			
45.000	26.055		
50.000	26.055		
55.000	26.055		

Chainage 64+820.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-50.064			
-45.000	18.988		
-43.863			
-40.000	19.028		
-35.000	19.052		
-25.000	18.996		
-18.977	19.031	19.031	26.727
-17.028	19.015	20.005	26.727
-15.528	19.002	20.055	26.727
-15.000	18.997		
-5.759	19.088	24.929	26.727
-3.930	19.144	25.854	26.727
-0.000	19.180	25.985	26.727
6.700	19.183	25.955	26.727
9.700	19.187	26.055	26.727
12.700	19.179	25.955	26.727
16.630	19.120	25.824	
17.916	19.114	25.181	
20.058	19.080	24.110	
25.000	19.079		
28.670	19.804	19.804	
30.000	19.886		
35.000	19.423		
39.707			
45.000	25.955		
50.000	25.955		
55.000	25.955		

Chainage 64+840.000

PMC-2R RECEIVED OCG-OCI-NK-NKI-RITES
Submittal No/ Dt. Ref. No: Date:
Engineer's Response
NONO
Checked — Name: P.P — Signature
Reviewed
Authorised Signatory
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative — Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40887777 New Mumbai 400703
(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1908/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE.
FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/3862 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/2731 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION — SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. — TATA

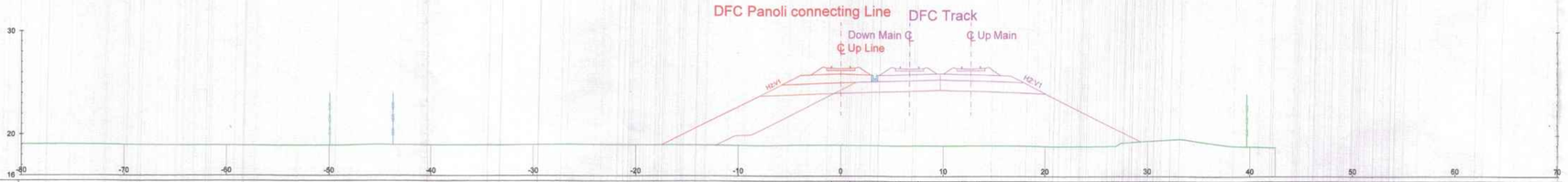
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS
FROM CH. 64+780 TO CH. 64+840

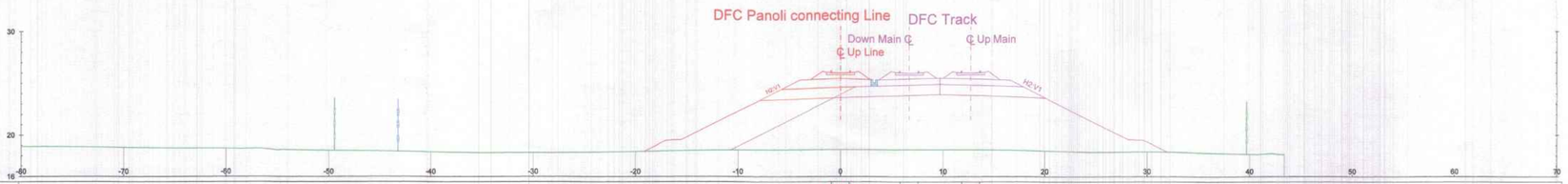
	NAME	SIGN
DRAWN	ACT	
DSGN	SRG	
CHKD	SKP	
APPD	SKP	

JOB NO: 8309
SIZE: A1
PROJECTION
SCALE: 1:250
STATUS: ID: (INCEPTION) / TD: (TECHNICAL) / CD: (CONSTRUCTION) / BD: (AS BUILT)
DATE : 08-JUL-2019
DRG. NO. 13/AL/DG/0222-CD
REV-3

13-AL-0602223.dwg

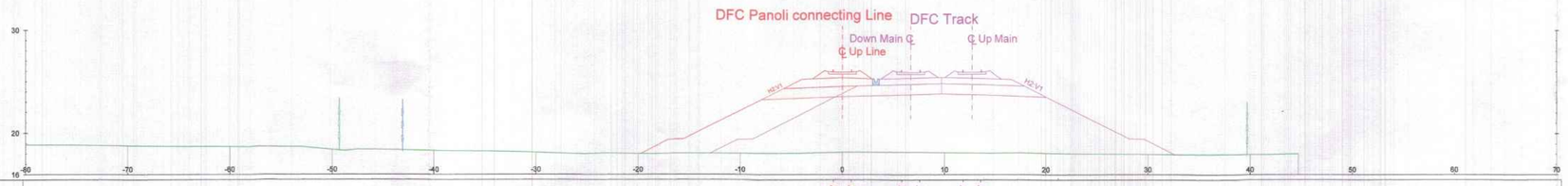

DFC Panoli connecting Line
DFC Track
Down Main ℄
℄ Up Line
℄ Up Main
H2:V1
H2:V1

| | | |



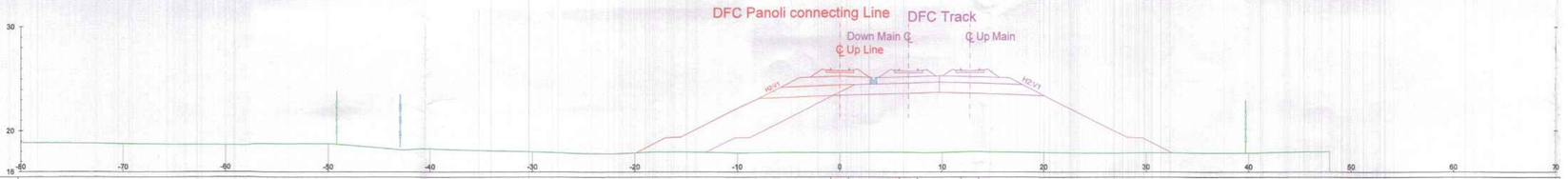
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-49.428			18.477
-45.000			18.404
-43.228			18.331
-40.000			18.305
-35.000			18.049
-25.000			18.060
-19.129		18.454	18.059
-17.028		18.505	18.068
-15.528		18.509	18.068
-15.000		18.517	
-5.759		24.439	18.079
-3.930		25.354	18.090
0.000	26.227 / 26.227	25.485	18.150
6.700	26.227 / 26.227	25.455	18.169
9.700		25.555	18.141
12.700	26.227 / 26.227	25.455	18.100
16.630		25.324	18.101
17.916		24.681	18.107
20.058		23.510	18.079
25.000		18.355	18.015
28.168		19.555	17.974
29.668		19.505	17.954
30.000		19.384	17.951
31.942		18.367	
35.000		18.255	
39.707			
45.000		22.455	
50.000		25.455	
55.000		25.455	

Chainage 64+940.000



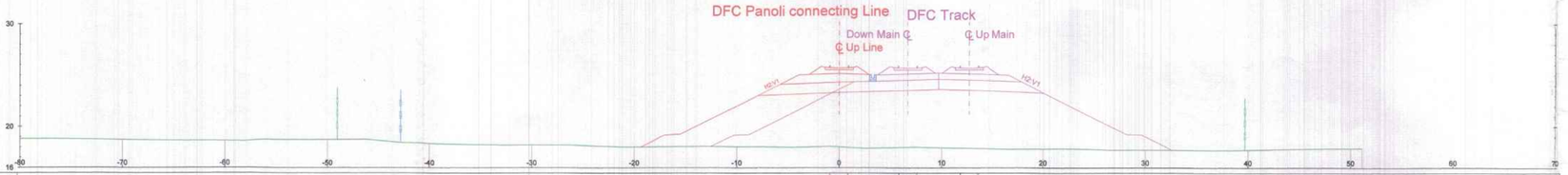
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-49.301			
-45.000			18.416
-43.101			
-40.000			18.342
-35.000			18.305
-25.000			18.049
-19.717		18.060	18.060
-17.028		19.405	18.059
-15.528		19.455	18.068
-15.000			18.068
-5.759		24.339	18.079
-3.930		25.254	18.090
0.000	26.127 / 26.127	25.385	18.150
6.700	26.127 / 26.127	25.355	18.169
9.700		25.455	18.141
12.700	26.127 / 26.127	25.355	18.100
16.630		25.224	18.101
17.916		24.581	18.107
20.058		23.510	18.079
25.000			18.015
28.168		19.455	17.974
29.668		19.405	17.954
30.000			17.951
32.615		17.931	
35.000		17.941	
39.708			
45.000			25.355
50.000			25.355
55.000			25.355

Chainage 64+960.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-49.174			
-45.000			18.326
-42.974			
-40.000			18.260
-35.000			18.083
-25.000			17.794
-19.907		17.865	17.865
-17.028		19.305	17.926
-15.528		19.355	17.916
-15.000			17.913
-5.759		24.239	17.908
-3.930		25.154	17.901
0.000	26.027 / 26.027	25.285	17.867
6.700	26.027 / 26.027	25.255	17.925
9.700		25.355	17.913
12.700	26.027 / 26.027	25.255	17.973
16.630		25.124	17.919
17.916		24.481	17.910
20.058		23.410	17.894
25.000			17.858
28.168		19.355	17.849
29.668		19.305	17.853
30.000			17.854
32.554		17.861	
35.000		17.859	
39.708			
45.000			17.925
50.000			25.255
55.000			25.255

Chainage 64+980.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-49.047			
-45.000			18.644
-42.847			
-40.000			18.372
-35.000			18.269
-25.000			18.182
-19.347		18.045	18.045
-17.028		19.205	18.057
-15.528		19.255	18.065
-15.000			18.068
-5.759		24.139	18.033
-3.930		25.054	18.026
-0.000	25.927 / 25.927	25.185	18.035
6.700	25.927 / 25.927	25.155	18.012
9.700		25.255	17.982
12.700	25.927 / 25.927	25.155	17.908
16.630		25.024	17.808
17.916		24.381	17.823
20.058		23.310	17.850
25.000			17.814
28.168		19.255	17.735
29.668		19.205	17.733
30.000			17.733
32.617		17.730	
35.000		17.728	
39.709			
45.000			17.835
50.000			17.900
55.000			25.155

Chainage 65+000.000

PMC-2R OCG-OCI-NK-NKI-RITES
Submittal Ref/ Ur. Ref. No.: Date:
Engineer's Response
NONO
Checked: Name P.P Signature
Reviewed:
Authorised Signatory:
Date: 04-02-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C PALM BEACH MARG VASHI, TEL.:40887777 Navi Mumbai 400705
(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1912/2992 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1908/2701 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	09-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD.

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 64+940 TO CH. 65+000

	NAME	SIGN
DRWN	ACT	
DSGN	SRG	
CHKD	SKP	
APPD	SKP	

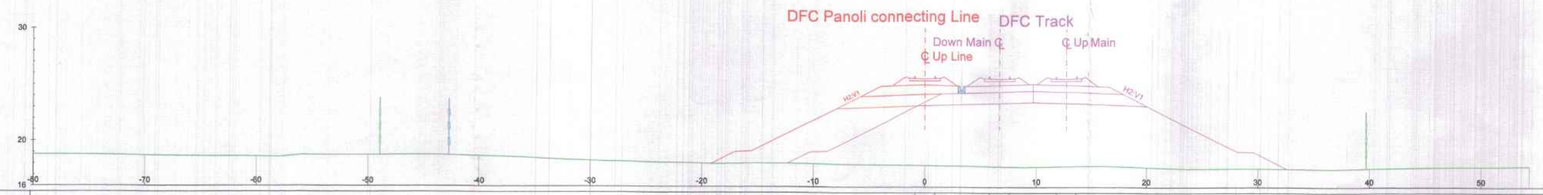
JOB NO: 8309
SIZE: A1
PROJECTION
SCALE: 1:250

STATUS: ID: (INCEPTION) / TD: (TECHNICAL) / CD: (CONSTRUCTION) ✓ / BD: (AS BUILT)

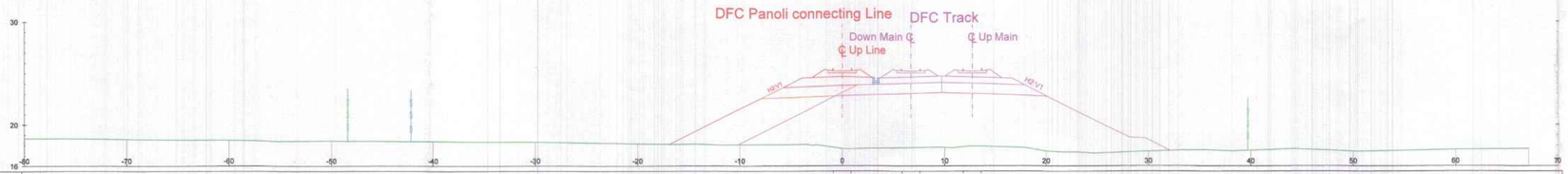
DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0224-CD
REV-3

13-AL-00022453.dwg

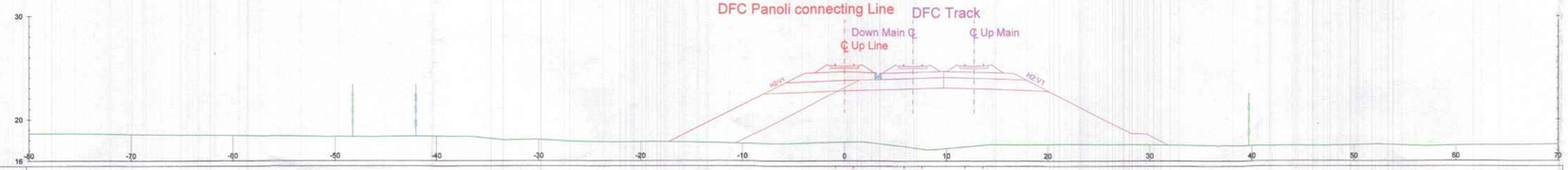

DFC Panoli connecting Line
DFC Track
Down Main ℄
℄ Up Line
℄ Up Main
H2:V1
H2:V1

| | | |



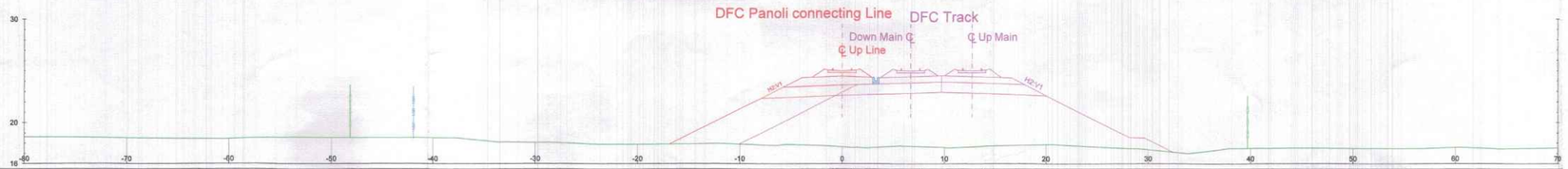
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-48.412			
-45.000	18.395		
-42.212			
-40.000	18.392		
-35.000	18.328		
-25.000	18.245		
-16.840	18.099	18.099	
-15.000	18.096		
-5.759	18.052	23.639	
-3.930	18.079	24.554	
-0.000	17.670	24.685	25.427
6.700	17.774	24.655	25.427
9.700	17.814	24.755	25.427
12.700	17.935	24.655	25.427
16.630	17.808	24.524	
17.916	17.772	23.881	
20.058	17.434	22.810	
25.000	17.260		
28.168	17.358	18.755	
29.868	17.405	18.705	
30.000	17.416		
32.111	17.483	17.483	
35.000	17.548		
39.709			
45.000	17.627		
50.000	17.442		
55.000	17.514		

Chainage 65+100.000



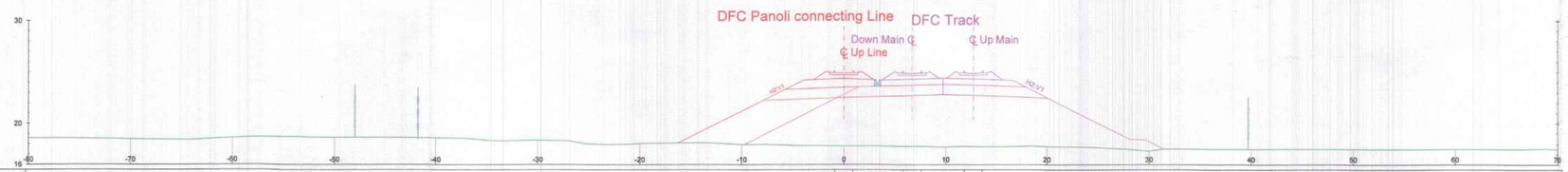
Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-48.285			
-45.000	18.326		
-42.085			
-40.000	18.385		
-35.000	18.203		
-25.000	17.859		
-17.179	17.829	17.829	
-15.000	17.784		
-5.759	17.681	23.539	
-3.930	17.727	24.454	
-0.000	17.816	24.585	25.327
6.700	17.292	24.555	25.327
9.700	17.201	24.655	25.327
12.700	17.442	24.555	25.327
16.630	17.556	24.424	
17.916	17.553	23.781	
20.058	17.598	22.710	
25.000	17.597		
28.168	17.670	18.655	
29.868	17.558	18.605	
30.000	17.555		
31.797	17.540	17.540	
35.000	17.514		
39.709			
45.000	17.474		
50.000	17.549		
55.000	17.522		

Chainage 65+120.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-48.158			
-45.000	18.511		
-41.958			
-40.000	18.521		
-35.000	18.242		
-25.000	17.926		
-16.863	17.887	17.887	
-15.000	17.896		
-5.759	17.872	23.439	
-3.930	17.839	24.354	
-0.000	17.642	24.485	25.227
6.700	17.710	24.455	25.227
9.700	17.624	24.555	25.227
12.700	17.644	24.455	25.227
16.630	17.783	24.324	
17.916	17.818	23.881	
20.058	17.876	22.610	
25.000	17.644		
28.168	17.496	18.555	
29.868	17.393	18.505	
30.000	17.382		
32.394	17.142	17.142	
35.000	17.140		
39.710			
45.000	17.499		
50.000	17.489		
55.000	17.480		

Chainage 65+140.000



Offset	Ground Level	Prop. FL	Prop. RL / Ex. RL
-48.003			
-45.000	18.637		
-41.803			
-40.000	18.612		
-35.000	18.382		
-25.000	18.022		
-16.248	18.095	18.095	
-15.000	18.103		
-5.759	17.913	23.339	
-3.930	17.858	24.254	
-0.000	17.801	24.385	25.127
6.700	17.786	24.355	25.127
9.700	17.736	24.455	25.127
12.700	17.763	24.355	25.127
16.630	17.766	24.224	
17.916	17.801	23.581	
20.058	17.774	22.510	
25.000	17.670		
28.168	17.474	18.455	
29.868	17.339	18.405	
30.000	17.321		
31.440	17.519	17.519	
35.000	17.526		
39.710			
45.000	17.515		
50.000	17.510		
55.000	17.504		

Chainage 65+160.000

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES	
Submittal Ref/ Ltr. Ref. No.		Date:
Engineer's Response		
NONO		
	Name	Signature
Checked	P.P	
Reviewed		
Authorised Signatory		
Date: 04-02-2020		

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40587777 Navi Mumbai 400 705

(S.K. Pathak)

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0079E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	25-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1918/25092 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	29-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1882/7121 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG CONSORTIUM
OCG - OCI - NK - NKI - RITES

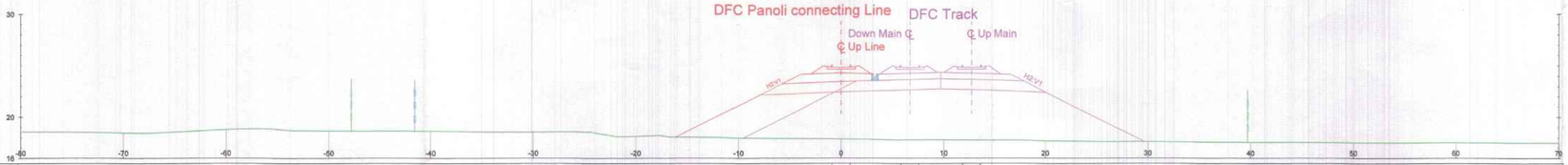
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD.

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 65+100 TO CH. 65+160

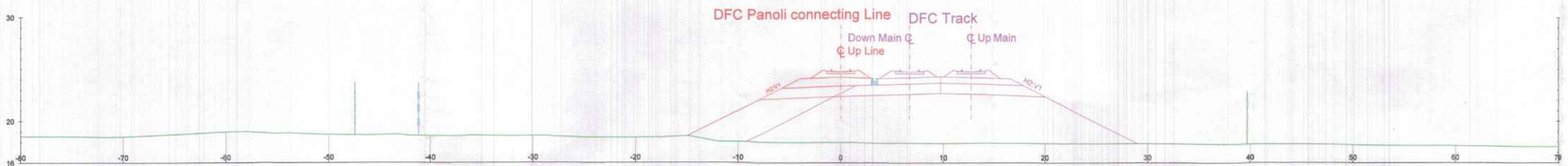
JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			CD: (CONSTRUCTION) ✓
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019

ORG. NO. 13/AL/DG/0226-CD REV-3



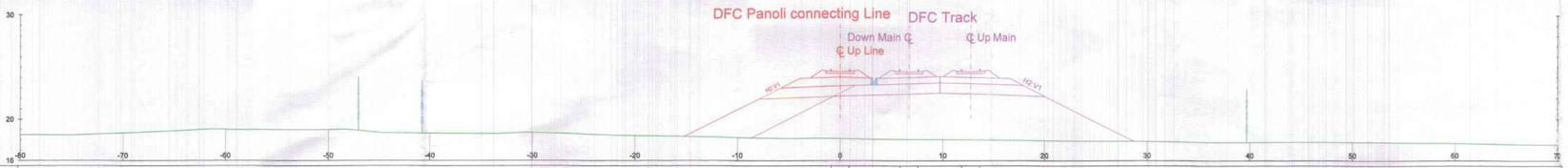
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-47.810			
-45.000			18.624
-41.609			
-40.000			18.624
-35.000			18.575
-25.000			18.556
-16.137		18.050	18.050
-15.000			18.046
-3.759		23.239	17.929
-3.930		24.154	17.915
0.000	25.027 / 25.027	24.285	17.857
6.700	25.027 / 25.027	24.255	17.797
9.700		24.355	17.803
12.700	25.027 / 25.027	24.255	17.764
16.630		24.124	17.738
17.916		23.481	17.745
20.058		22.410	17.689
25.000			17.634
28.968		17.605	17.605
30.000			17.605
35.000			17.583
39.710			
45.000			17.542
50.000			17.522
55.000			17.515

Chainage 65+180.000



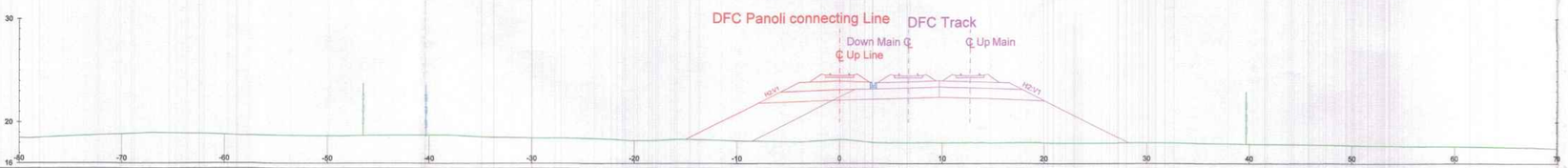
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-47.458			
-45.000			18.674
-41.256			
-40.000			18.598
-35.000			18.629
-25.000			18.440
-15.000		18.540	18.540
-14.958			18.540
-3.759		23.139	17.968
-3.930		24.054	17.954
-0.000	24.927 / 24.927	24.185	17.943
6.700	24.927 / 24.927	24.155	17.901
9.700		24.255	17.877
12.700	24.927 / 24.927	24.155	17.863
16.630		24.024	17.889
17.916		23.381	17.884
20.058		22.310	17.875
25.000			17.856
28.956		17.841	17.841
30.000			17.837
35.000			17.817
39.710			
45.000			17.778
50.000			17.726
55.000			17.673

Chainage 65+200.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-47.063			
-45.000			18.686
-40.662			
-40.000			18.646
-35.000			18.617
-25.000			18.572
-15.169		18.334	18.334
-15.000			18.331
-5.759		23.039	18.167
-3.930		23.954	18.182
-0.000	24.827 / 24.827	24.085	18.133
6.700	24.827 / 24.827	24.055	18.077
9.700		24.155	18.080
12.700	24.827 / 24.827	24.055	18.026
16.630		23.924	17.960
17.916		23.281	17.965
20.058		22.210	17.943
25.000			17.908
28.722		17.878	17.878
30.000			17.890
35.000			17.791
39.710			
45.000			17.778
50.000			17.780
55.000			17.740

Chainage 65+220.000



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-46.498			
-45.000			18.697
-40.295			
-40.000			18.738
-35.000			18.691
-25.000			18.430
-15.000		18.323	18.323
-14.992			
-5.759		22.939	18.134
-3.930		23.854	18.107
0.000	24.727 / 24.727	23.985	18.297
6.700	24.727 / 24.727	23.955	18.028
9.700		24.055	18.031
12.700	24.727 / 24.727	23.955	18.010
16.630		23.824	18.005
17.916		23.181	18.020
20.058		22.110	18.015
25.000			18.000
28.275		18.001	18.001
30.000			18.002
35.000			17.963
39.710			
45.000			17.827
50.000			17.759
55.000			17.691

Chainage 65+240.000

PMC-2R OCG CONSORTIUM | OCG-OCI-NK-NKI-RITES
Submittal Ref. No. | Date:
Engineer's Response
NONO
Checked: Name / Signature
Reviewed
Authorized Signatory
Date: 04-03-2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contracter's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40687777 Navi Mumbai 400705
C.S.K. Parthek

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1908/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE — ROW
PROPOSED NALLA DIVERSION — NALLA DIV
INNER EDGE OF PROPOSED ROAD — PRO
INNER EDGE OF NOT IN SCOPE SERVICE ROAD — NSR
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	Drawn	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO L/OCGC/DFCC/CMT/CTP-13/1910/2002 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO L/OCGC/DFCC/CMT/CTP-13/1908/2131 (DATED 26-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | TATA

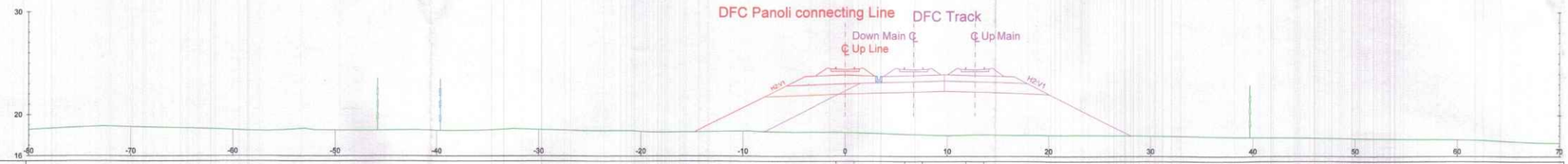
DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 65+180 TO CH. 65+240

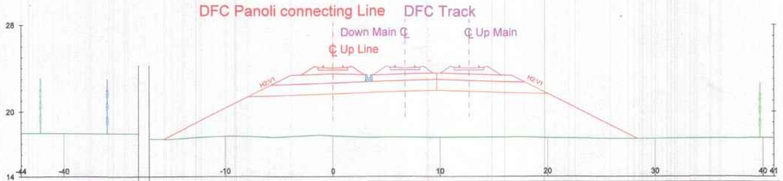
JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			CD: (CONSTRUCTION)
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0227-CD REV-3

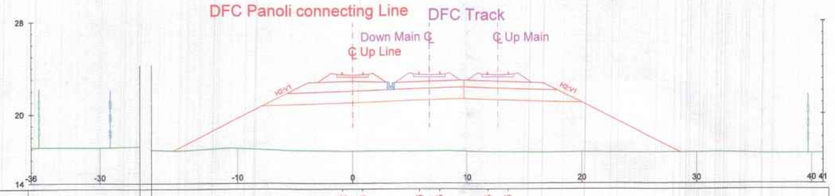
13-AL-00022783.dwg


DFC Panoli connecting Line
DFC Track
Down Main ℄
℄ Up Line
℄ Up Main
H2:V1
H2:V1

| | | |

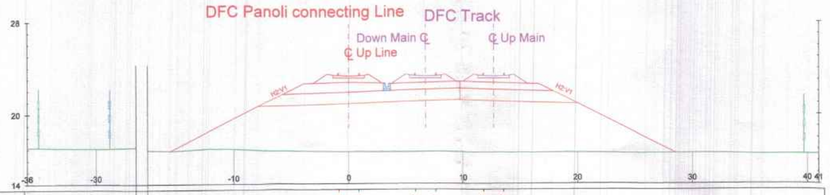

DFC Panoli connecting Line
DFC Track
Down Main ℄
℄ Up Main
℄ Up Line
HCV1
HCV1

| | | |



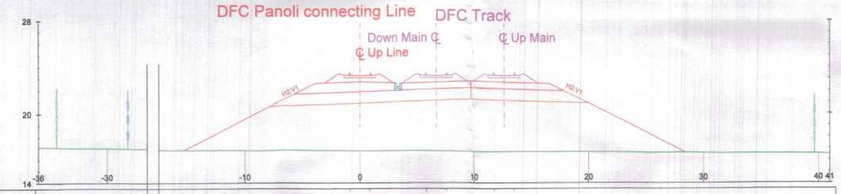
Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	17.130																																	
Offset	-35.299 -34.999	-29.092	-15.541 -14.999	16.857 16.848	16.897	16.854	21.788	16.836	22.703	16.795	22.832	23.592	23.574	16.794	22.703	16.766	22.893	23.565	23.565	16.718	22.703	16.690	22.893	23.565	23.565	16.669	22.662	16.660	22.028	17.896	16.669	20.957	20.040	16.688	16.685	28.582	30.000	16.686	16.611	35.000	39.710

Chainage 65+472.317



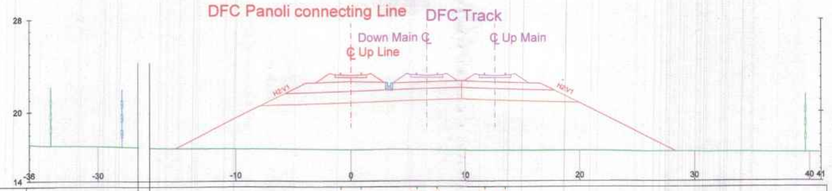
Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	17.140																																	
Offset	-35.006 -35.000	-28.803	-15.524 -15.000	16.857 16.876	16.857	16.838	21.792	16.822	22.666	16.787	22.798	23.548	23.538	16.768	22.755	16.746	22.855	23.527	23.527	16.709	22.755	16.677	22.855	23.527	23.527	16.647	22.624	16.685	21.993	17.884	16.684	20.922	20.027	16.666	16.666	28.539	30.000	16.674	16.565	35.000	39.705

Chainage 65+480.000



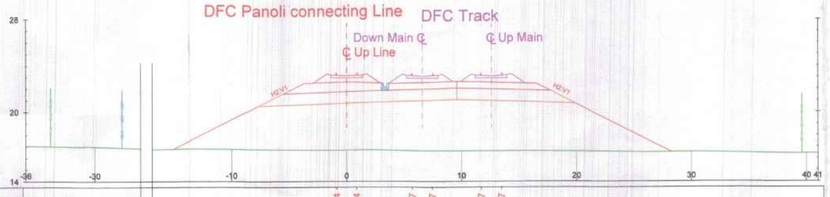
Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	17.100																																	
Offset	-35.000 -34.403	-28.200	-15.321 -15.000	16.865 16.863	16.865	16.810	21.861	16.795	22.574	16.760	22.704	23.456	23.446	16.725	22.655	16.672	22.755	23.427	23.427	16.670	22.655	16.633	22.755	23.427	23.427	16.580	22.524	16.655	21.901	17.830	16.655	20.830	19.973	16.639	16.600	28.433	30.000	16.568	16.505	35.000	39.667

Chainage 65+500.000



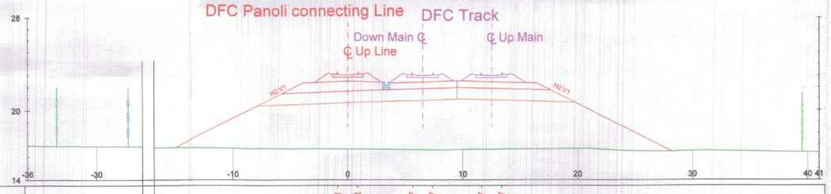
Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	17.089																																	
Offset	-35.000 -34.109	-27.906	-15.260 -15.000	16.853 16.851	16.853	16.775	21.815	16.760	22.527	16.719	22.657	23.409	23.399	16.687	22.604	16.650	22.704	23.376	23.376	16.620	22.604	16.580	22.704	23.376	23.376	16.571	22.473	16.546	21.855	17.790	16.537	20.783	19.933	16.520	16.570	28.359	30.000	16.560	16.489	35.000	38.636

Chainage 65+510.168



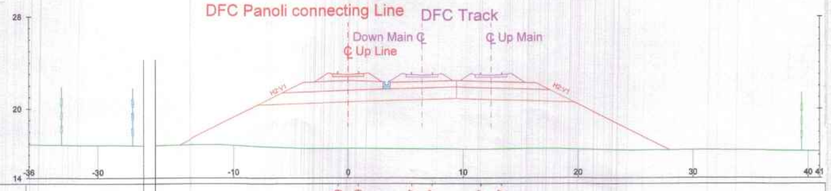
Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	17.047																																	
Offset	-35.000 -33.827	-27.625	-15.094 -15.000	16.796 16.798	16.796	-5.532	21.577	-3.712	22.487	-0.000	22.611	23.353	23.353	6.585	22.554	6.653	22.654	23.326	23.326	12.585	22.554	16.651	22.654	23.326	23.326	16.631	21.809	16.620	22.423	17.743	16.612	20.737	19.886	25.000	16.557	28.285	30.000	16.539	16.538	35.000	39.597

Chainage 65+520.168



Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	16.948																																	
Offset	-35.000 -33.455	-27.255	-15.099 -15.000	16.804 16.803	16.804	-5.745	21.481	-3.930	22.388	-0.000	22.519	23.261	23.261	6.506	22.455	6.605	22.555	23.227	23.227	12.506	22.455	16.610	22.555	23.227	23.227	16.626	21.718	16.626	22.324	17.649	16.658	20.646	19.791	25.000	16.492	28.186	30.000	16.475	16.449	35.000	39.518

Chainage 65+540.000



Prop. RL / Ex. RL																																		
Prop. FL																																		
Ground Level	16.874																																	
Offset	-35.000 -33.159	-26.959	-15.000 -14.801	16.857 16.860	16.860	-5.739	21.391	-3.930	22.296	0.000	22.427	23.169	23.169	6.426	22.355	6.517	22.455	23.127	23.127	12.426	22.355	16.495	22.455	23.127	23.127	16.477	21.626	16.532	22.224	17.552	16.527	20.555	19.694	25.000	16.411	27.953	30.000	16.422	16.425	35.000	39.439

Chainage 65+560.000

PMC-2R OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No: Date:
Engineer's Response
NONO
Name Signature
Checked P.P
Reviewed
Authorised Signatory
Date: 04.02.2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.:40587777 Navi Mumbai 400703

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-18	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1812/2882 (DATED 14-OCT-2018)	ACT	SRG	SKP	SKP
2	26-AUG-18	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1808/2711 (DATED 09-AUG-2018)	ACT	SRG	SKP	SKP
1	09-JUL-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

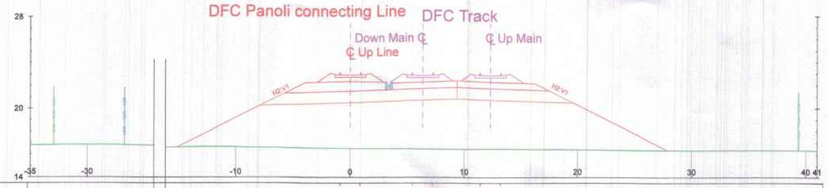
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 65+472.317 TO CH. 65+560

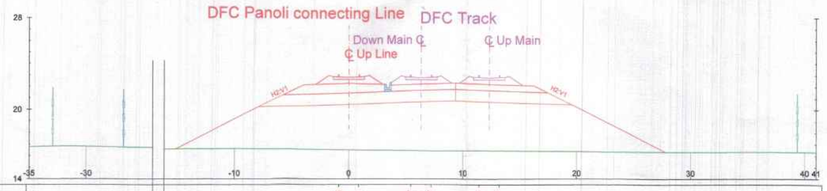
JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0230-CD REV-3



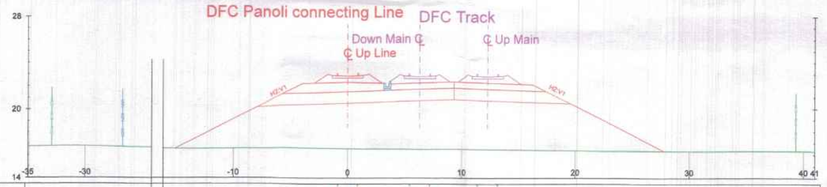
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.805
-32.935			
-26.734			16.787
-25.000			
-15.078		16.683	16.635
-15.000			16.636
-5.735	23.099	21.323	16.581
-3.930	23.101	22.226	16.569
-0.000	23.051	22.357	16.540
6.365	23.051	22.279	16.470
9.365	23.051	22.379	16.446
12.365	23.051	22.279	16.475
16.295		22.148	16.458
17.479		21.566	16.450
19.621		20.465	16.418
25.000			16.366
27.554			16.366
30.000			16.363
35.000			16.355
39.379			

Chainage 65+575.168



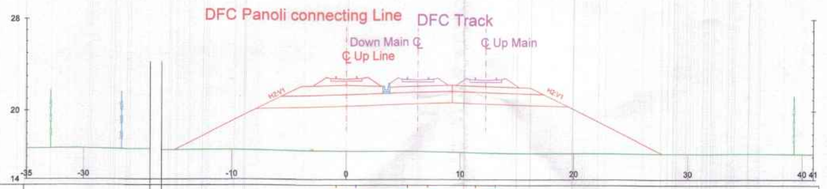
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.785
-32.915			
-26.715			16.732
-25.000			
-15.128		16.685	16.605
-15.000			16.607
-5.733	23.076	21.302	16.580
-3.930	23.081	22.203	16.568
0.000	23.027	22.334	16.538
6.346	23.027	22.255	16.449
9.346	23.027	22.355	16.454
12.346	23.027	22.255	16.471
16.276		22.124	16.442
17.456		21.534	16.424
19.598		20.463	16.392
25.000			16.352
27.822			16.351
30.000			16.342
35.000			16.337
38.360			

Chainage 65+580.000



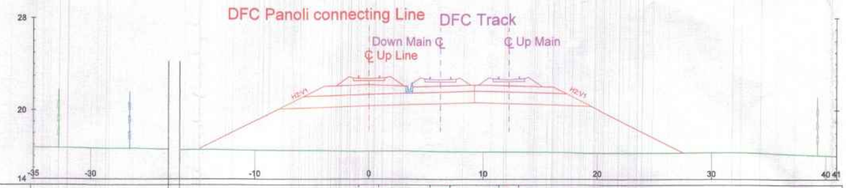
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.757
-32.905			
-26.705			16.701
-25.000			
-15.123		16.684	16.597
-15.000			16.594
-5.733	23.053	21.279	16.575
-3.930	23.060	22.180	16.563
0.000	23.001	22.311	16.517
6.327	23.001	22.229	16.437
9.327	23.001	22.329	16.469
12.327	23.001	22.229	16.450
16.257		22.066	16.411
17.430		21.511	16.395
19.574		20.439	16.365
25.700			16.338
27.788			16.335
30.000			16.319
35.000			16.314
39.340			

Chainage 65+585.168



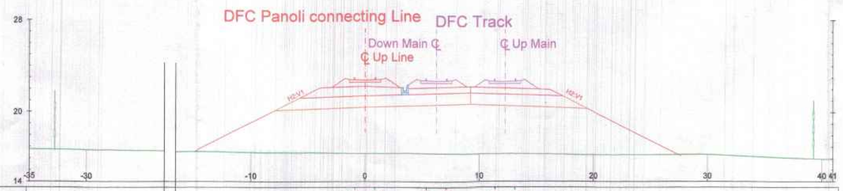
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.719
-32.866			
-26.666			16.645
-25.000			
-15.029		16.675	16.573
-15.000			16.574
-5.729	23.086	21.224	16.532
-3.930	23.096	22.123	16.509
0.000	22.934	22.254	16.487
6.283	22.934	22.162	16.445
9.283	22.934	22.262	16.394
12.283	22.934	22.162	16.341
16.213		22.031	16.297
17.396		21.455	16.291
19.509		20.383	16.260
25.000			16.260
27.741			16.267
30.000			16.264
35.000			16.256
39.297			

Chainage 65+600.000



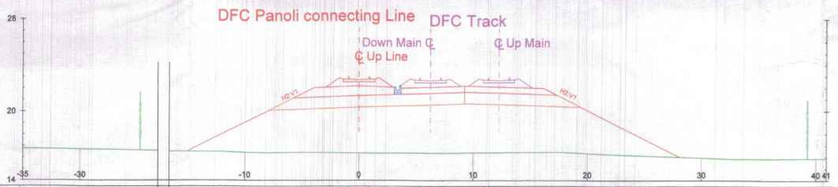
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.747
-32.784			
-26.584			16.656
-25.000			
-15.000		16.663	16.583
-14.993			16.583
-5.727	22.968	21.196	16.507
-3.930	22.978	22.095	16.493
-0.000	22.898	22.226	16.421
6.253	22.898	22.126	16.420
9.253	22.898	22.226	16.394
12.253	22.898	22.126	16.384
16.183		21.995	16.342
17.319		21.427	16.328
19.462		20.355	16.278
25.000			16.306
27.541			16.316
30.000			16.324
35.000			16.274
39.267			

Chainage 65+620.000



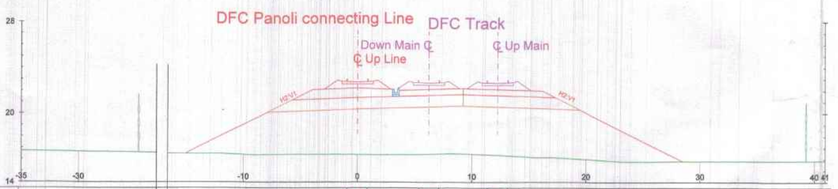
Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.768
-32.768			
-25.000			16.676
-15.005		16.565	16.558
-15.000			16.558
-5.727	22.965	21.194	16.485
-3.931	22.973	22.092	16.489
0.000	22.895	22.223	16.407
6.250	22.895	22.123	16.415
9.250	22.895	22.223	16.394
12.250	22.895	22.123	16.405
16.180		21.992	16.366
17.317		21.424	16.359
19.460		20.353	16.316
25.000			16.342
27.635			16.265
30.000			16.343
35.000			16.147
39.265			

Chainage 65+623.018



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.753
-32.753			
-25.000			16.653
-24.797			
-15.052		16.623	16.522
-15.000			16.522
-5.727	22.857	21.186	16.441
-3.930	22.859	22.084	16.444
0.000	22.887	22.215	16.390
6.250	22.887	22.115	16.401
9.250	22.887	22.215	16.399
12.250	22.887	22.115	16.409
16.180		21.984	16.424
17.316		21.416	16.428
19.459		20.345	16.383
25.000			16.142
28.043			16.033
30.000			15.963
35.000			15.883
39.264			

Chainage 65+633.018



Offset	Prop. RL / Ex. RL	Prop. FL	Ground Level
-35.000			16.717
-32.717			
-25.000			16.626
-24.796			
-15.102		16.492	16.492
-15.000			16.491
-5.726	22.951	21.180	16.431
-3.930	22.951	22.078	16.423
0.000	22.881	22.209	16.393
6.250	22.881	22.109	16.453
9.250	22.881	22.209	16.408
12.250	22.881	22.109	16.363
16.180		21.978	16.155
17.316		21.410	16.146
19.459		20.339	16.040
25.000			15.820
28.480			15.828
30.000			15.820
35.000			15.848
39.264			

Chainage 65+640.000

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES
Submittal No/ Ltr. Ref. No:	Date:
Engineer's Response	
NONO	
	Name / Signature
Checked	P.P
Reviewed	
Authorised Signatory	
Date:	04.02.2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO.22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.: 49857777 Navi Mumbai-400705

C.S.K. Pathak

NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E ADJACENT TO IR TRACK).
5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. L/OCGC/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)"
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCGC/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINGAE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/TEAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 .... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	28-NOV-19	REVISED AS PER PMC COMMENTS LNO. L/OCGC/DFCC/CMT/CTP-13/1902/3692 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	28-AUG-19	REVISED AS PER PMC COMMENTS LNO. L/OCGC/DFCC/CMT/CTP-13/1906/2103 (DATED 05-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

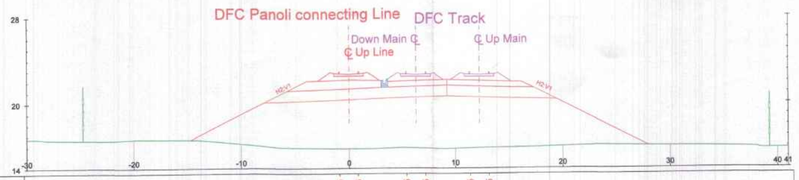
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 65+575.168 TO CH. 65+640

JOB NO: 8309			SIZE A1	STATUS
	NAME	SIGN	PROJECTION	ID: (INCEPTION)
DRWN	ACT			TD: (TECHNICAL)
DSGN	SRG			CD: (CONSTRUCTION)
CHKD	SKP		SCALE 1:250	BD: (AS BUILT)
APPD	SKP			DATE : 08-JUL-2019

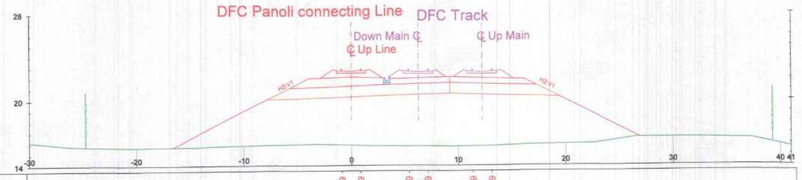
DRG. NO. 13/AL/DG/0231-CD REV-3

13-AL-00023183.dwg



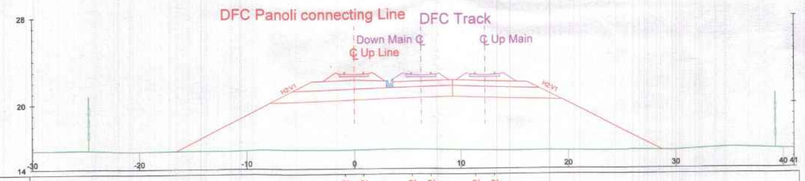
Prop. RL / Ex. RL													22.935	22.935		22.865	22.865		22.865	22.865									
Prop. FL													21.164	22.062	16.666	22.193	22.093	22.193	22.093			21.962	21.394	20.323			16.054		
Ground Level	16.592				16.676	16.666						15.903	15.878		15.830		15.872	15.802	15.886			15.929	15.937	15.966		16.097	16.054	16.026		15.939	
Offset	-25.000	-24.736			-15.000	-14.721						-5.726	-3.930		0.000		6.250	9.250	12.250			16.180	17.316	19.459		25.000	27.996	30.000		35.000	39.264

Chainage 65+660.000



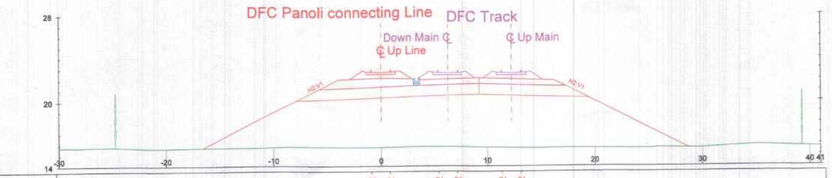
Prop. RL / Ex. RL													22.919	22.919		22.849	22.849		22.849	22.849									
Prop. FL					15.712							21.147	22.046	22.177		22.077	22.077	22.177	22.077			21.946	21.378	20.306			16.584		
Ground Level	15.754				15.712	15.715						15.924	15.964	15.877		15.765	15.765	15.766	15.793			15.896	15.920	15.944		16.345	16.584	16.550		16.465	
Offset	-25.000	-24.736			-16.598	-15.000						-5.726	-3.930		0.000		6.250	9.250	12.250			16.180	17.316	19.459		25.000	26.803	30.000		35.000	39.264

Chainage 65+680.000



Prop. RL / Ex. RL													22.902	22.902		22.832	22.832		22.832	22.832									
Prop. FL					15.704							21.131	22.029	22.160		22.060	22.060	22.160	22.060			21.929	21.361	20.290			15.657		
Ground Level	15.770				15.704	15.707						15.766	15.750	15.738		15.787	15.787	15.755	15.708			15.671	15.669	15.654		15.637	15.657	15.645		15.677	
Offset	-25.000	-24.736			-16.581	-15.000						-5.726	-3.930		0.000		6.250	9.250	12.250			16.180	17.316	19.459		25.000	28.725	30.000		35.000	39.264

Chainage 65+700.000



Prop. RL / Ex. RL													22.902	22.902		22.832	22.832		22.832	22.832									
Prop. FL					15.704							21.131	22.029	22.160		22.060	22.060	22.160	22.060			21.929	21.361	20.290			15.655		
Ground Level	15.770				15.704	15.707						15.766	15.750	15.738		15.787	15.787	15.753	15.708			15.671	15.669	15.654		15.638	15.655	15.644		15.678	
Offset	-25.000	-24.736			-16.580	-15.000						-5.726	-3.930		0.000		6.250	9.250	12.250			16.180	17.316	19.459		25.000	28.728	30.000		35.000	39.264

Chainage 65+700.018

PMC-2R OCG CONSORTIUM	OCG-OCI-NK-NKI-RITES	
Submittal No/ Un. Ref. No:		Date:
Engineer's Response		
NONO		
	Name	Signature
Checked	P.P	
Reviewed		
Authorised Signatory		
Date:	04-02-2020	

(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative | Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD. PLOT NO. 22-A SECTOR-19-C, PALM BEACH MARG, VASHI, TEL.: 40887777 Navi Mumbai 400703
C.S.K. Pathak

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13/GE/DD/0763 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM
13/DE/DD/0766 .... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

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PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET
SUBGRADE
EXISTING GROUND
FUTURE IR TRACK

NO.	DATE	REVISION	DRWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1910/26962 (DATED 14-OCT-2019)	ACT	SRG	SKP	SKP
2	26-AUG-19	REVISED AS PER PMC COMMENTS L NO. L/OCGC/DFCC/CMT/CTP-13/1899/27131 (DATED 26-AUG-2019)	ACT	SRG	SKP	SKP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION | SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OCG CONSORTIUM

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUI & CO., LTD. | IRCON | TATA PROJECTS LIMITED

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 65+660 TO CH. 65+700.018

JOB NO: 8309			SIZE	STATUS
	NAME	SIGN	A1	ID: (INCEPTION)
DRWN	ACT		PROJECTION	TD: (TECHNICAL)
DSGN	SRG			✓ CD: (CONSTRUCTION)
CHKD	SKP		SCALE	BD: (AS BUILT)
APPD	SKP		1:250	DATE : 08-JUL-2019

DRG. NO. 13/AL/DG/0238 -CD REV-3

1:1 A 13-AL-DG0238R3.dwg