

SITE SECTION 1-1 1:50

### RELAY HUT - LEVELS

												Ref. Level		ference Chainage' as		The state of the s	-		Derived	Levels					Level Difference (He	eight/Depth)		
lo. Relay Hut No.	Building Chainage	Reference Chainage	Co-ordinates of	f ref. / Datum pt.	Datum point (Refer to the drawing)	Formation Level at the Center of UP Main Track Line / Yard Line		Formation Level at the Toe of Embankment	Existing Ground Level at the Toe of Embankment	Rail Level	Finished Ground Level	Plinth FFL	Roof (T.O.S.)	Parapet Wall Top Level	Top Landing Finish Level	Pathway Finish Level	HT/DT. Of Formation Top Edge Level from Datum PT.	HT/DT. Of Rail Level from F.T.E.L.	HT/DT Of E C L from	HT/DT. Of Plinth FFL from Datum pt.	Remark							
		1200 13	X	Y	Z	Z1	72	Z3a	Z3b	Z4 (=Z1 + 0.771)	Z5 (=Z2 + 0.904)	Z6 (=Z5 + 0.300)	Z7 (=Z6 + 3.600)	Z8 (=Z6 + 4.200)	Z9 (=Z6 - 0.025)	Z10 ( =Z2 )	(=Z2 - Z)	(=Z4-Z2)		(=Z6-Z)								
NEW KANPUR RELAY HUT - 1	459.500	459.500	446209.966	2909321.007	119.795	120.945	120.821	119.107	120.186	121.716	121.725	122.025	125.625	126.225	122.000	120.821	1.026	0.895	0.904	2.230								

SYSTRA - MOTT MACDONALD MACDONALD JV SYSTIA MOTT IVI OF INDIA LTD.

. ALL DIMENSIONS ARE IN M UNLESS OTHERWISE SPECIFIED. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44

(AS PER ALIGNMENT AND CROSS SECTION DRAWING OF CP 201 & 202). CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE. 4. REFERENCE DRAWING NO. SEE BELOW TABLE:

## REFERENCE TABLE A

S.NO.	Relay Hut	Building	Reference	Alignment Plan & Prof	ile Detailed Cross Section
5.NU.	No.	Cridinage	Chainage	Drawing NO.	Drawing NO.
1	New Kanpur Relay Hut — 1	459.500	459.500	P2AL0852F	W2CS2747A

#### REFERENCE TABLE B

RELAY HUT LOCATION DATUM POINT SEE BELOW TABLE:

S.NO.	Relay Hut	Building Chainage	Reference Chainage	De	atum Point Unit	:m	Direction Angle
	No.	on amage	onamago	X	Y	Z	
1	New Kanpur Relay Hut — 1	459.500	459.500	446209.966	2909321.007	119.795	71.511*

#### Note: The direction angle is positive ("+") for clockwise rotation. LEVEL ABBREVIATIONS

F.T.E.L : FORMATION TOP EDGE LEVEL : FINISHED GROUND LEVEL F.G.L P.FFL : PLINTH FINISHED FLOOR LEVEL RAIL LEVEL

EXISTING GROUND LEVEL : FORMATION LEVEL AT THE TOE OF EMBANKMENT E.G.L.T.E : EXISTING GROUND LEVEL AT THE TOE OF EMBANKMENT THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING

NO. 1/AR/11101

CHAIN LINK FENCING SHOULD BE AS PER PARA 1.4.5. (5), PART 2, SECTION VI, VOL. 4, PARTICULAR SPECIFICATION BUILDING & STRUCTURE WORKS, ON PAGE NO. 0633 OF CA CP-203.

TURFING ON RELAY HUT EMBANKMENT TO BE DONE AS PER APPROVED

MATHEOD STATEMENT. THE PLINTH LEVEL OF SIGNALLING EQUIPMENT ROOMS,

TELECOMMUNICATION EQUIPMENT ROOMS AND SIGNALLING & TELECOMMUNICATION POWER SUPPLY EQUIPMENT ROOMS SHALL BE AT LEAST 300MM ABOVE THE RAIL LEVEL. THE CEILING HEIGHT OF THESE ROOMS SHALL BE APPROXIMATELY 3 (THREE) M ABOVE FLOOR LEVEL.

ALL BUILDINGS SHALL BE PROVIDED WITH CONCEALED DUCTS/PIPES FOR WIRING OF SIGNAL AND TELECOM FACILITIES. IN ADDITION, DUCTS SHALL BE PROVIDED ON THE FLOOR FOR ENTRY/EXIT OF S&T CABLES AND ALSO FOR POWER SUPPLY. THESE ARRANGEMENTS SHALL BE MADE IN CONSULTATION WITH OTHER CONTRACTORS.

THE SITE OF THE WORK SHALL BE CLEARED OFF THE SHRUBS, RANK VEGETATION, GRASS, BUSHES AND OTHER MATERIALS UPTO ADEQUATE DEPTH AS REQUIRED AS PER SITE CONDITION AND RUBBISH REMOVED OUTSIDE THE PERIPHERY OF THE AREA BEING CLEARED. THE ENCLOSED AREA BETWEEN CHAIN LINK FENCING AND THE BUILDING SHALL THEN B FILLED WITH THE EARTH UP TO RAIL LEVEL AS WELL AS COMPACTED BY A SUITABLE METHOD AS DECIDED BY ENGINEER.

#### PRELIMINARY GAD

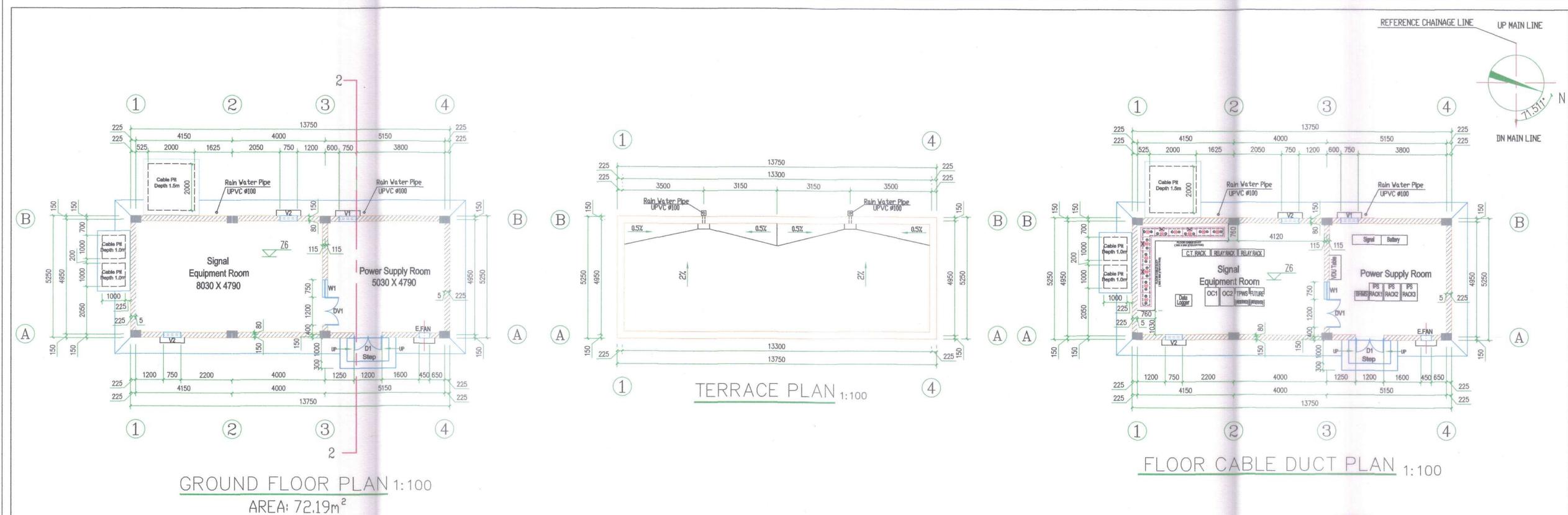
	ARED BY:	SANJEEV KUMAR VERMA	APPROVED BY: DENG HUAFEN	ap guit
G	23-11-2019	AS PER PMC COMMENT		
F	13-11-2019	TYPE OF BUILDING HAVE BEEN CHANGED PRECAST TO FRAME STRUCTURE		
E	06-08-2019	AS PER PMC COMMENT		
D	19-06-2019	TECHNICAL SPECIFICATION CHANGE		
С	31-05-2019	AS PER PMC COMMENT		
В	18-04-2019	AS PER PMC COMMENT		
Α	11-01-2019	FIRST SUBMISSION		
REV.	DATE	DESCRIPTION	REV.BY	CHK.B

# Beijing National Railway Research&Design Institute of Signal&Communication Co.,Ltd. NAME OF THE CONTRACT: NEW MUGHALSARAI-NEW BHAUPUR DESIGN AND BUILD SYSTEM WORK

	INCAA MIOOLI	CONTRACT PACKAGE-203	199
CLIENT NAME:	केडीकेटेड घेट संसीतार	Dedicated Freight Corridor Corporation of India Ltd. A Government of India (Ministry of Railway) Enterprise	SCALE 1:50
PROJECT NAM		astern Dedicated Freight Corridor Project-2	SHEET 01

NEW KANPUR RELAY HUT -SITE SECTION

1/AR/11102 ALIGNMENT PLAN & PROFILE KM. 458+900 TO KM. 460+100 DETAILED CROSS SECTION: KM. 459+460 TO KM. 459+770



13300

ELEVATION 4-1 1:100

#### **FURNISHING SCHEDULE**

S.N.	DESCRIPTION	FINISHING				
		FLOORS	SKIRTING / DADO			
1	singnalling equipment rooms	ceramic tile flooring	same with 100 mm high			
2	power supply room	acid proof tiles for flooring	same with 2 m high			
3	doors	door frame -steel sction painted with enamel paint				
3	doors	shutter door - water proof flush painted with ename				
4	ventilators	ventilators shall be made with				
5	internal finish	cement plaster on all walls finished	with oil bound distemper			
6	external finish	cement plaster on all walls finish	ed with snowcem paint			

009		TO THE THE TOTAL PROPERTY OF THE TANK OF T	The second secon		009
Z6+3.600 26+3.600 210 2002 Z6 Z6	RAIN SHADE AS PER STRUCTURE  900  300 1000  Step	600 600 750 (DV) 84 W1 //	RUUF SLAB AS PER STRUCTURE DETAIL  PLINTH FFL LEVEL + Z6 FLOURING AS / DETAIL	CABLE PIT TOP FINISH LEVEL: Z6-0.150  PLINTH PROTECTION AS / DETAIL	300 3600
76-0.300			4950		

SECTION 2-2 1:50

Z6+2.400

13300

ELEVATION 1-4 1:100 4

26+2,400 Exhaust Fan

double leaf flush door

Z6+3.600

Z6-0,300

			DOOR, WINI	DOW & VENTILATOR S	SCHEDULE	
TYPE	NO.	WIDTH (MM)	HEIGHT (MM)	SILL (M)	LINTEL (M)	REMARK
DOOR	DV1	1200	2500	Z6	Z6 + 2.500	DOUBLE LEAF STEEL FLUSH DOOR, FIXED GLASS VENTILATOR
	D1	1200	2100	Z6	Z6 + 2.100	DOUBLE LEAF STEEL FLUSH DOOR
WINDOW	W1	750	1500	Z6 + 1.000	Z6 + 2.500	FIXED GLASS
VENTUATOD -	V1	750	300	Z6 + 2.500	Z6 + 2.800	GRILL
VENTILATOR	V2	750	300	Z6 + 2.500	Z6 + 2.800	GRILL
EXHAUST FAN	E.FAN	450	300	Z6 + 2.500	Z6 + 2.800	FAN

Z6+3.600

EMPLOYER: SYSTRA - MOTT MACDONALD MACDONALD JV DEDICATED FREIGHT CORRIDOR CORPORATION SYSTIA MOTT IV OF INDIA LTD.

- 1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- 2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44 (AS PER ALIGNMENT AND CROSS SECTION DRAWING OF CP 201 & 202).
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.

REFERENCE DRAWING NO. SEE BELOW TABLE:

#### REFERENCE TABLE A

200					
.NO.	Relay Hut	Building	Reference	Alignment Plan & Profile	Detailed Cross Secti
	No.	Chainage	Chainage	Drawing NO.	Drawing NO.
1	New Kanpur Relay Hut — 1	459.500	459.500	P2AL0852F	W2CS2747A

RELAY HUT LOCATION DATUM POINT SEE BELOW TABLE:

#### REFERENCE TABLE B

S.NO.	Relay Hut		Reference Chainage		atum Point Unit	:m	Direction Angle
	No.	orramago	ondinage	X	Y	Z	
1	New Kanpur Relay Hut — 1	459.500	459.500	446209.966	2909321.007	119.795	71.511°

Note: The direction angle is positive("+") for clockwise rotation.

- FOR THE RELAY HUT LOCATION SEE DRAWING NO. 1/AR/11101
- BRICKWORK TO BE DONE AS FOLLOWS:
- IN SUPERSTRUCTURE ABOVE PLINTH TO BE DONE AS PER APPROVED MATHEOD STATEMENT.
- IN PLINTH AND FOUNDATION TO BE DONE AS PER APPROVED
- MATHEOD STATEMENT. CEMENT PLASTER TO BE DONE IN C.M. 1:3 INTERNAL SIDE 12MM THICK
- AND EXTERNAL SIDE 15MM THICK. REFER TO SEPARATE APPROVED DRAWING / METHOD STATEMENT FOR THE
  - FOLLOWING WORKS: - BRICKWORKS.
  - FLOORING, SKIRTING AND DADO.
  - FLOOR CABLE DUCT FOR SIGNAL CABLES.
- CABLE PIT WORKS.
- PLASTERING AND PAINTING.
- DOOR, WINDOW, VENTILATOR AND GRILL.
- PLINTH PROTECTION.
- STRUCTURAL AND OTHER ASSOCIATED RC WORKS.
- SLOPE PROTECTION AND TURFING.
- CHAIN LINK FENCING AND GATE.
- ELECTRICAL CONDUITS AND OTHER ASSOCIATED ELECTRICAL WORKS. - EXCAVATION IN FOUNDATION, BACKFILLING AND COMPACTION.
- WATERPROOFING & THERMAL INSULATION ON ROOF TO BE DONE.

#### PRELIMINARY GAD

D	19-06-2019	TECHNICAL SPECIFICATION CHANGE	
E	06-08-2019	AS PER PMC COMMENT	
G F	23-11-2019	AS PER PMC COMMENT  TYPE OF BUILDING HAVE BEEN CHANGED PRECAST TO FRAME STRUCTURE	
PREP	CONTRACTOR ARED BY: LANSH KHARE	CHECKED BY: SANJEEV KUMAR VERMA	APPROVED BY: DENG HUAFENG

LRSC	Beijing National Railway Research&Design Institute of Signal&Communicati	on Co.,L
NAME OF THE CONTRACT: NEW MUG	HALSARAI-NEW BHAUPUR DESIGN AND BUILD SYSTEM WORK CONTRACT PACKAGE-203	-46
CLIENT NAME:	Dedicated Freight Corridor Corporation of India Ltd.  A Government of India (Ministry of Railway) Enterprise	SCALE 1:100
PROJECT NAME:	Eastern Dedicated Freight Corridor Project-2	SHEET 01
GROUND I	NEW KANPUR RELAY HUT - 1 FLOOR PLAN, ELEVATION 1-4, ELEVATION 4-1 SECTION 2-2, TERRACE PLAN	TOT.SHE
STATUS:	DWG No.: 1/AR/11103	REV.

ALIGNMENT PLAN & PROFILE KM. 458+900 TO KM. 460+100 DETAILED CROSS SECTION: KM. 459+460 TO KM. 459+770

SH.SIZE 841 X 594 MM