

Eastern Railway

Sealdah division

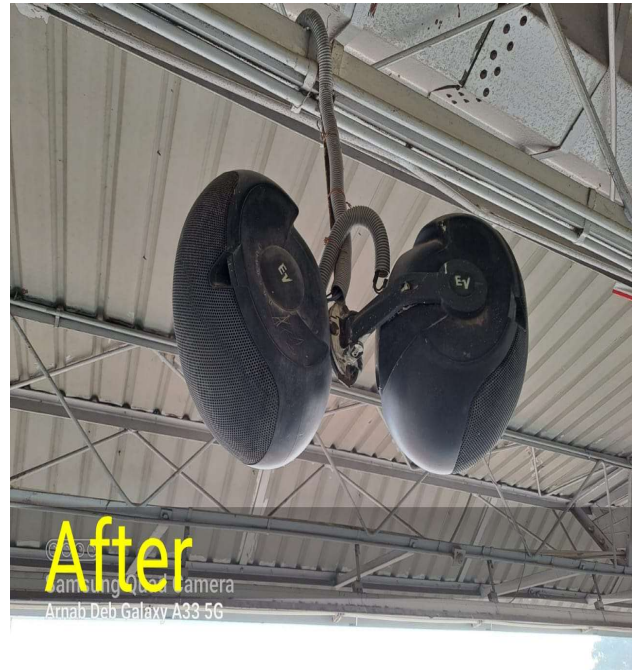


Ideal Telecom Station

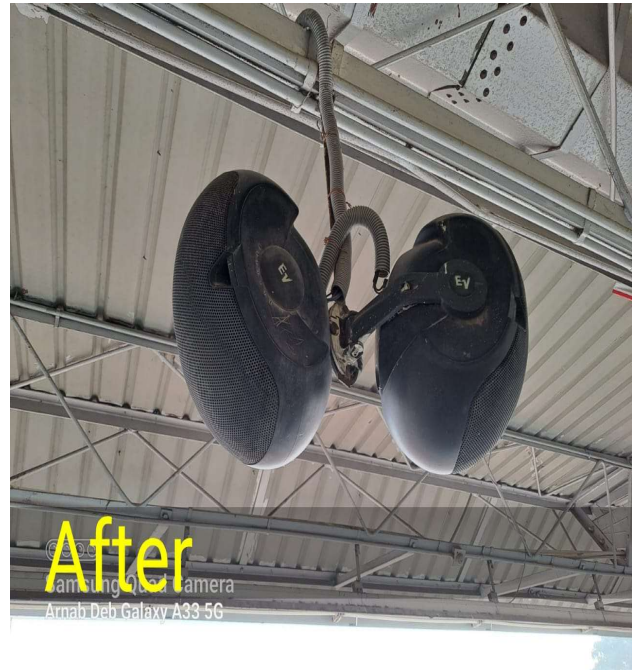
BERHAMPORE COURT (BPC)



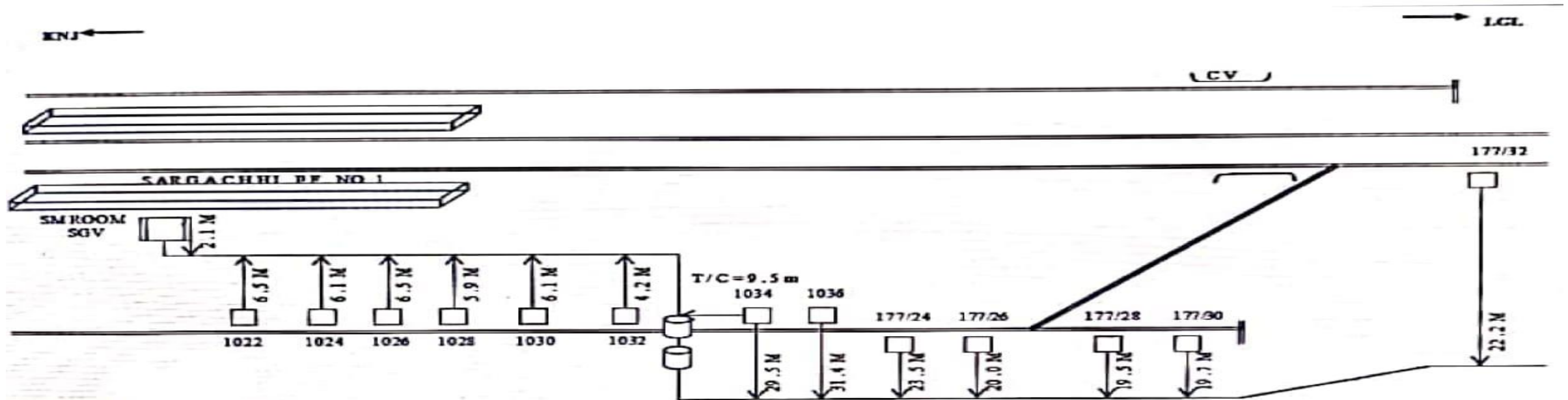
BEFORE AND AFTER



BEFORE AND AFTER



6 - QUAD CABLE POSITIOM SGV -BPC- CSZ



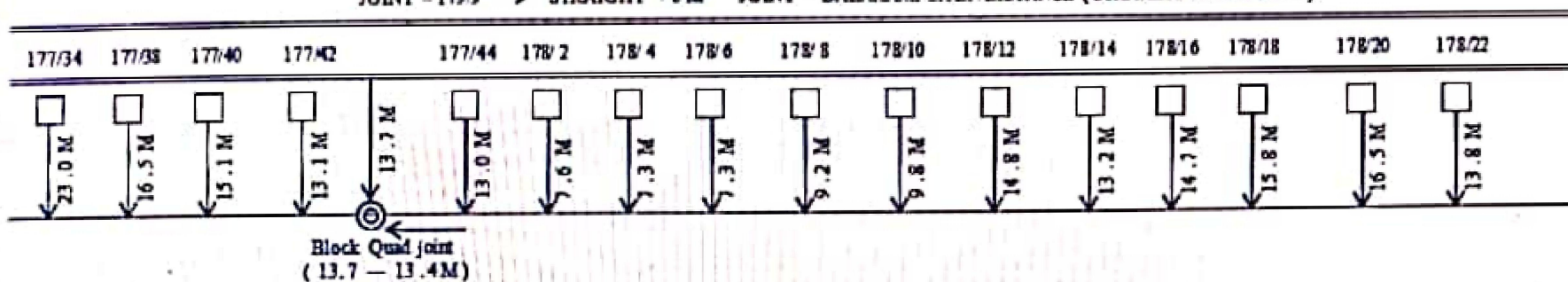
Joint = 175/3 - 8 / L1 = straight
 175/29-31 / TC = 10 m
 179/9 = Straight
 Balarampur DN Distance = Straight (Arjun Tree)

PARAM ENTERPRISES (P) LIMITED KOLKATA-1	6 QUAD CABLE LAYING PLAN SEC: SARGACHHI TO BERHAMPUR EASTERN RAILWAY SEALDAH DIVISION	PARAM	JE / T / CON / SDAH	DSTE / CON / SDAH	DRAWING NO	SHEET NO
					PERFT: 12 / 2016	PAGE 3 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		

KNJ ←

→ LGL

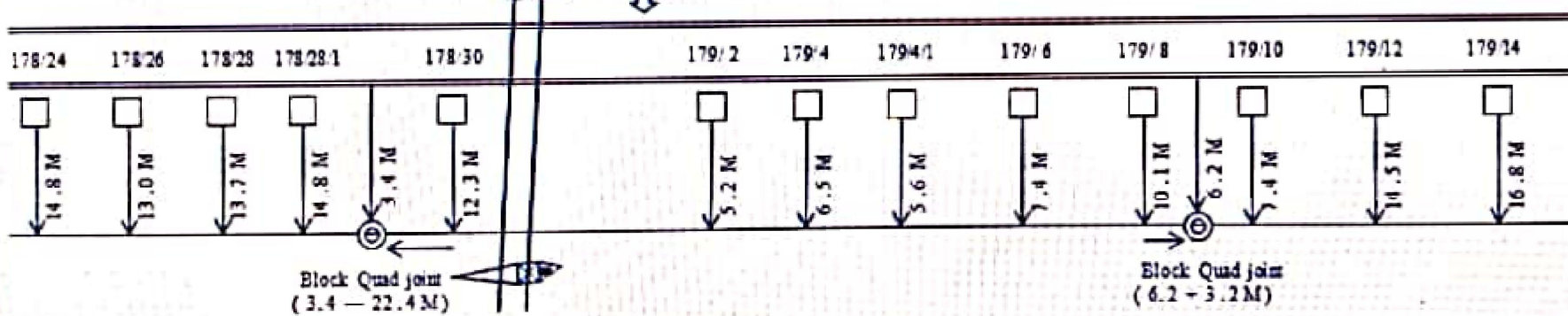
JOINT = 179.9 → STRAIGHT +0 M JOINT = BALARAMPUR IN DISTANCE (STRAIGHT ARJUN TREE)



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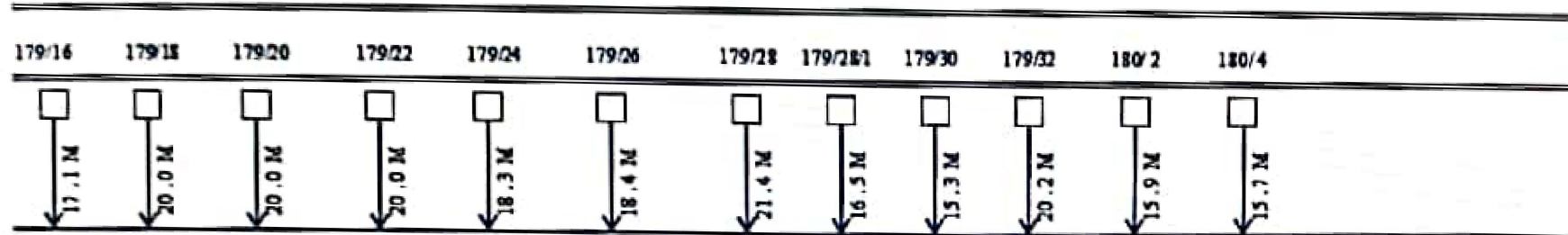
GATE 124E



PARAM ENTERPRISES (P) LIMITED KOLKATA-1	6 QUAD CABLE LAYING PLAN SEC. SARGACHHI TO BERHAMPUR EASTERN RAILWAY SEALDAH DIVISION	PARAM	JE T / CON / SDAH	DSIE / CON / SDAH	DRAWING NO	SHEET NO
					PERFT / 12 - 2016	PAGE 4 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		

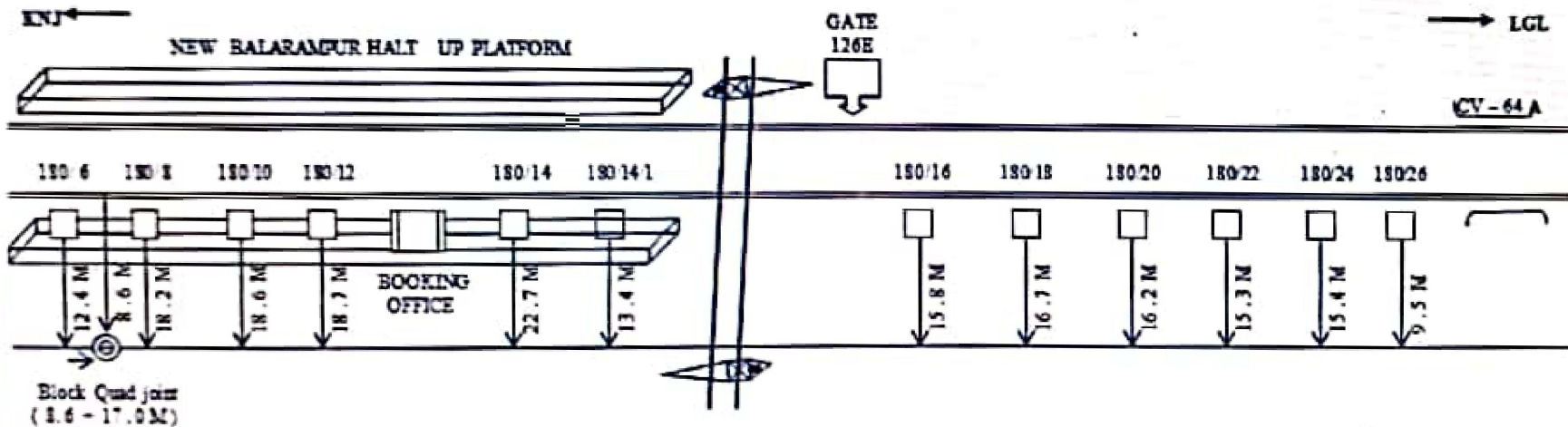
EV ←

→ LGL



EV ←

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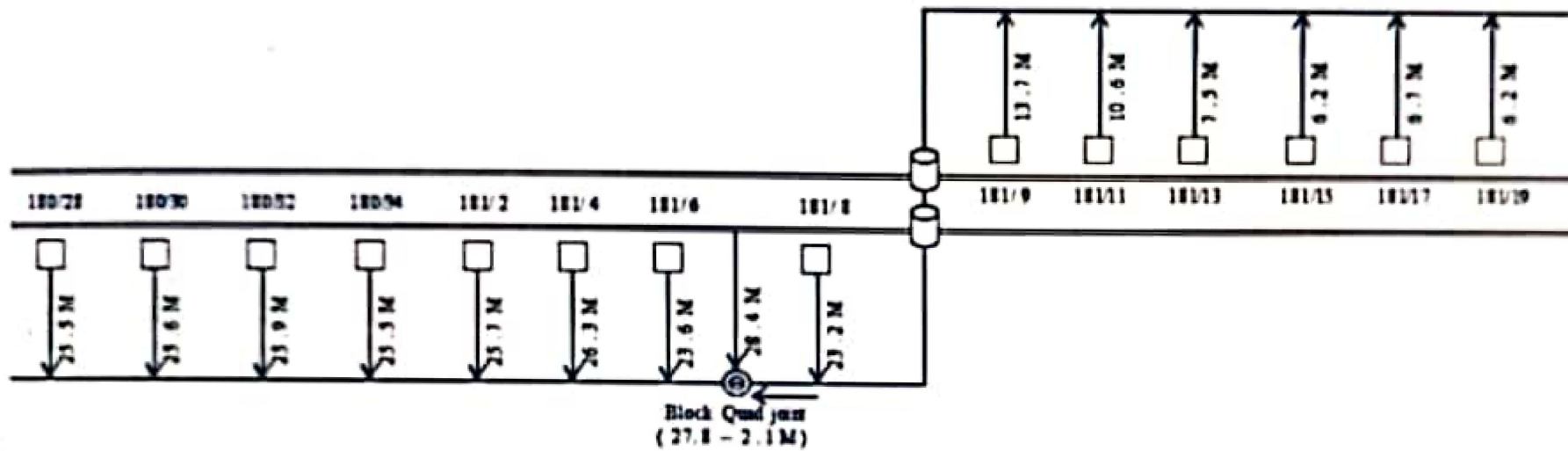


Block Quad joint
(1.6 - 17.0 M)

PARAM ENTERPRISES (P) LIMITED KOLKATA-1	6 QUAD CABLE LAYING PLAN SEC: SARGACHHI TO BERHAMPUR EASTERN RAILWAY SEALDAH DIVISION	PARAM	JEET CON/SDAH	DSTE/CON/SDAH	DRAWING NO	SHEET NO
					PERFT/12/2016	PAGE 5 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		

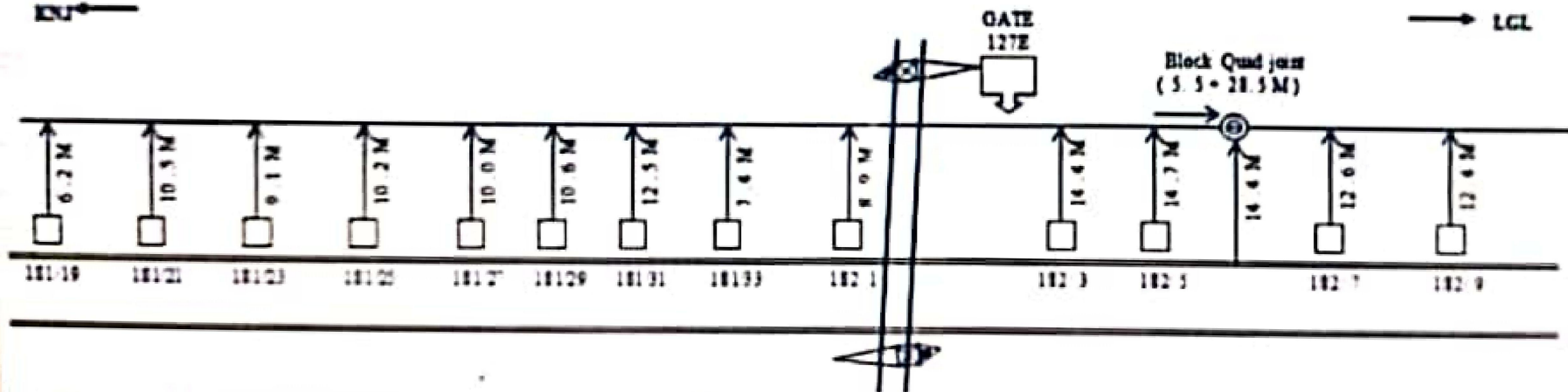
ENJ

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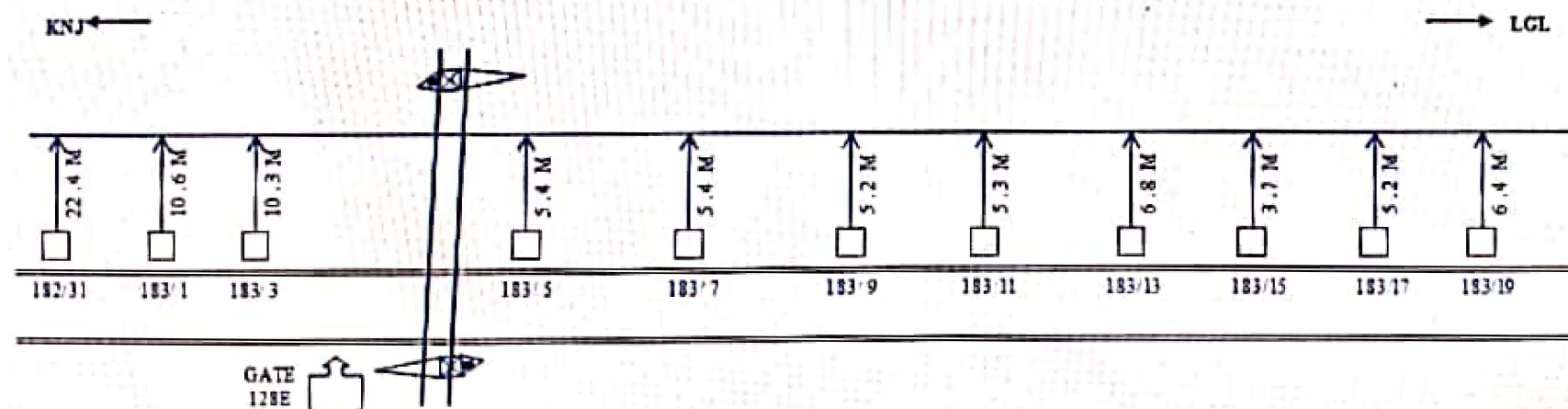
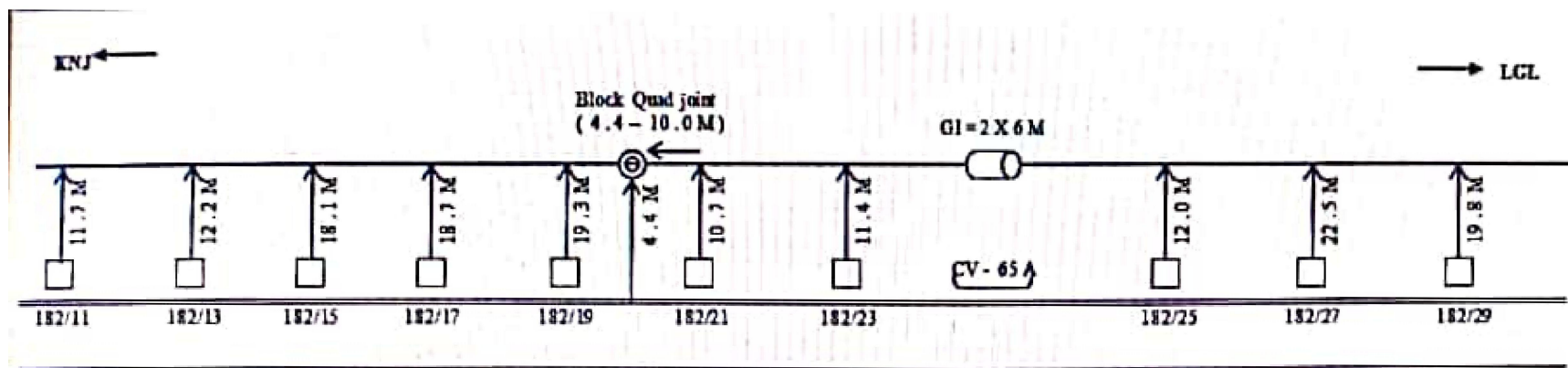


ENJ

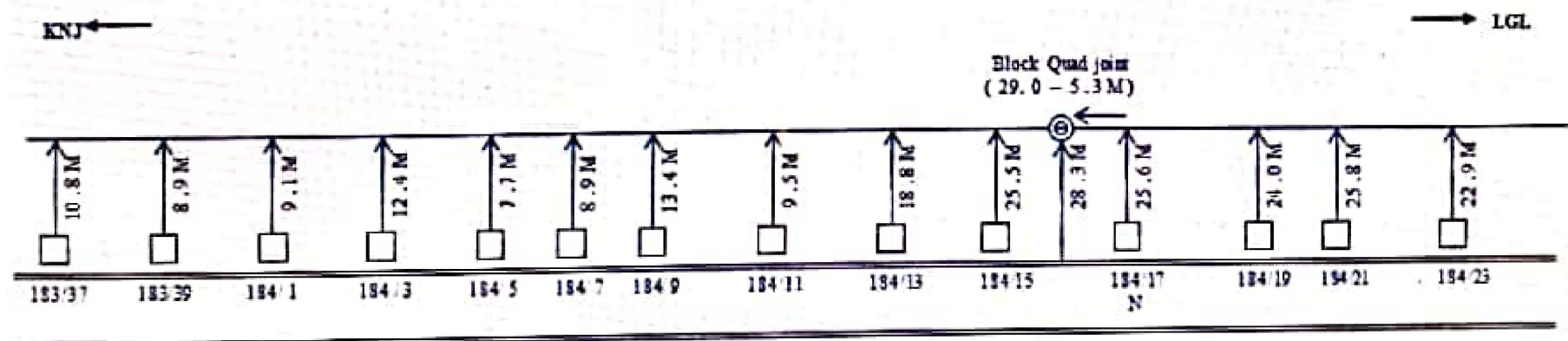
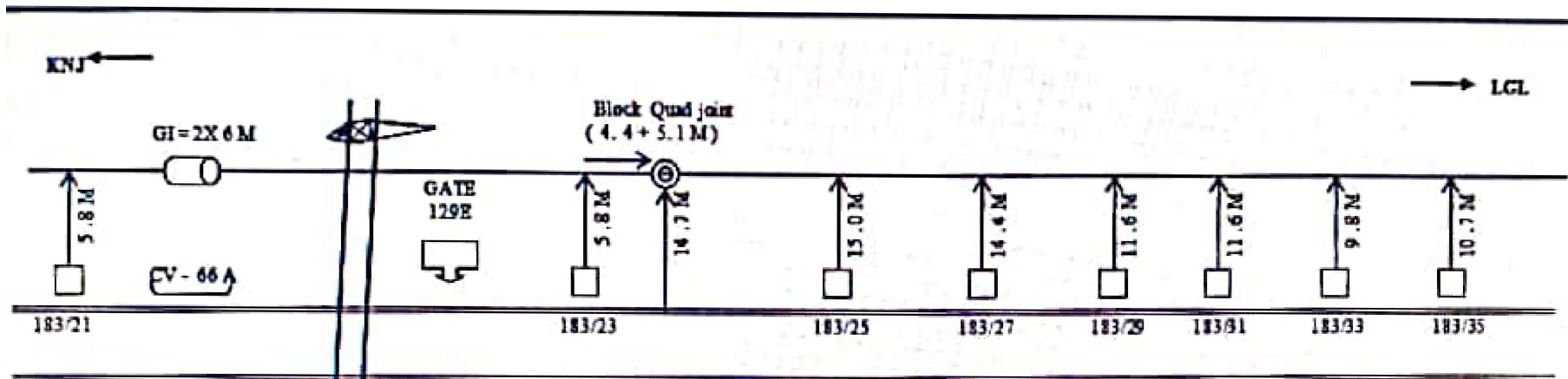
→ LGL



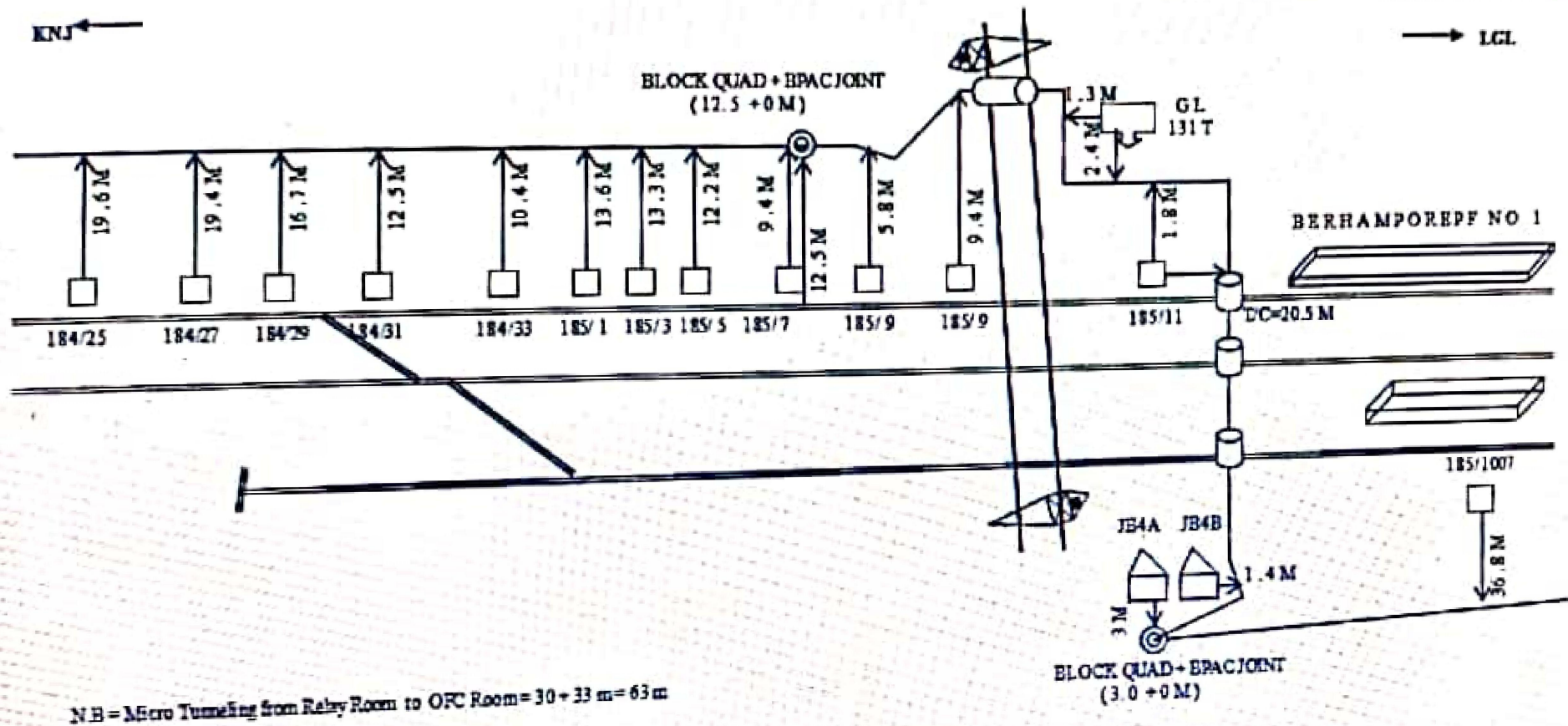
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					PERFT 12 2018	PAGE 8 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		



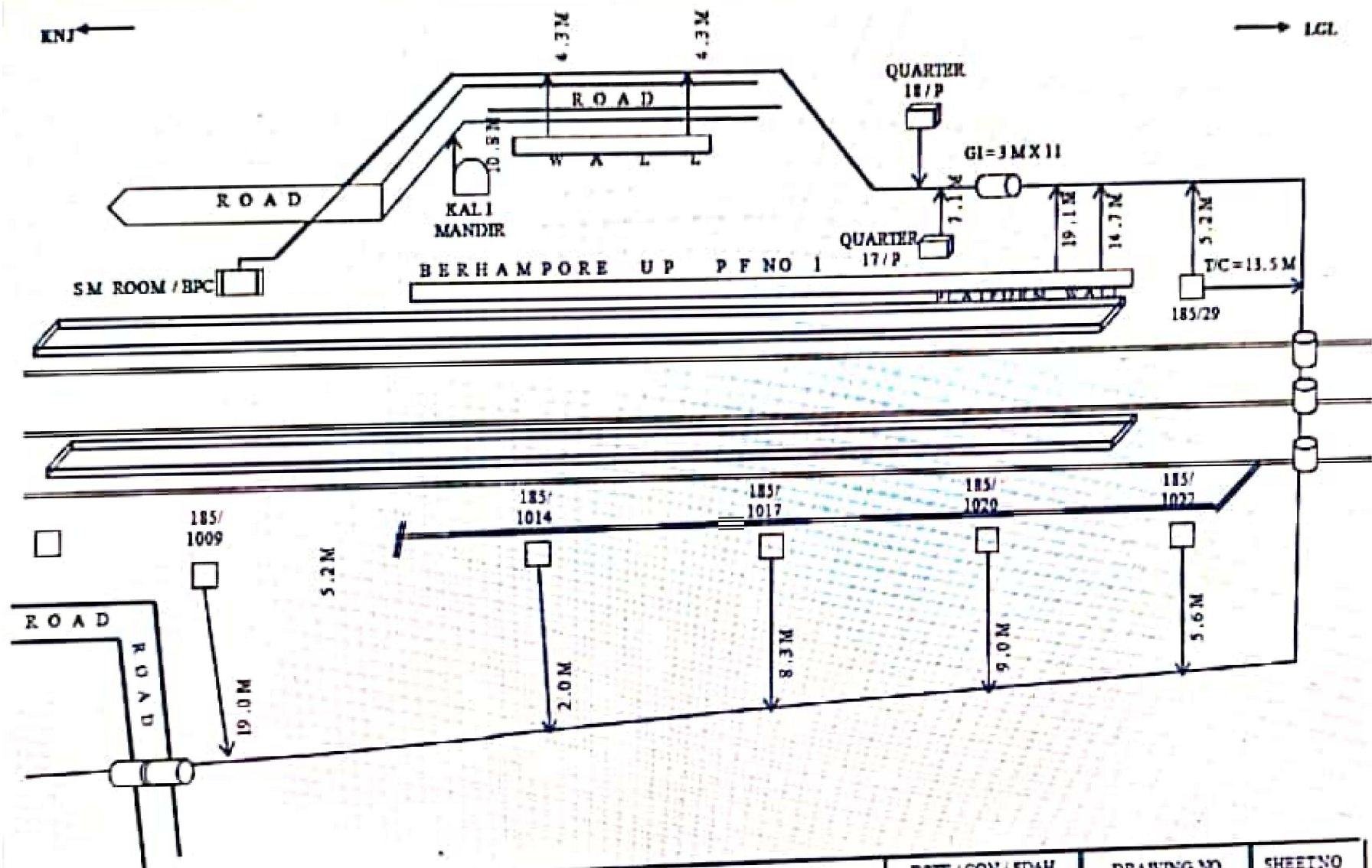
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					PERFT/ 12 2016	PAGE 7 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		



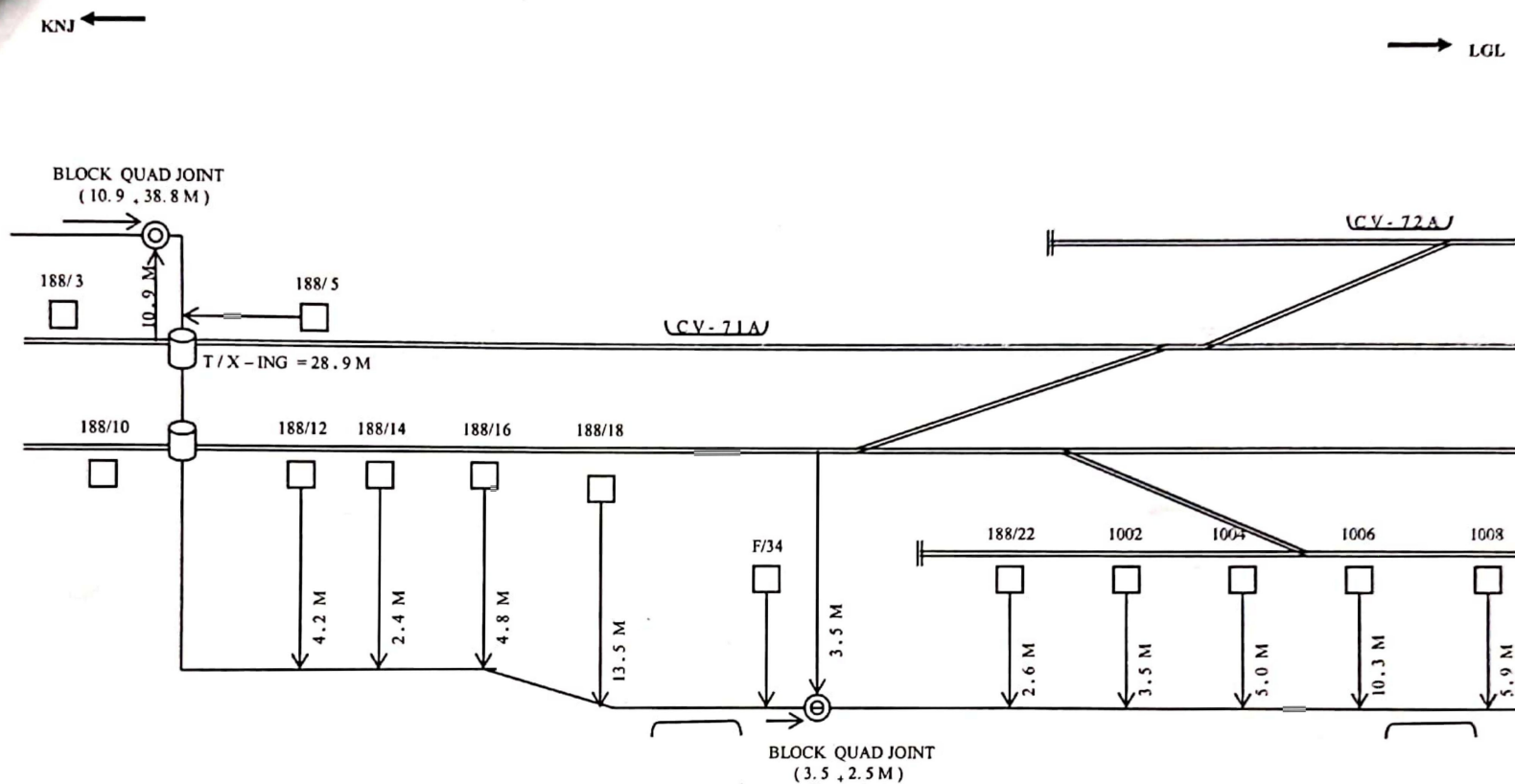
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					PERFT / 12 / 2016	PAGE 8 OF 10
		DESIGNED BY	CHECKED BY	APPROVED BY		



PARAM ENTERPRISES (P) LIMITED	6 QUAD CABLE LAYING PLAN SEC: SARGACHHI TO BERHAMPORE RAILWAY	PARAM	JE / T / CON / SDAH	DSTE / CON / SDAH	DRAWING NO	SHEET NO
					PERFT / 12 / 2016	PAGE 9 OF 11
		APPROVED BY				



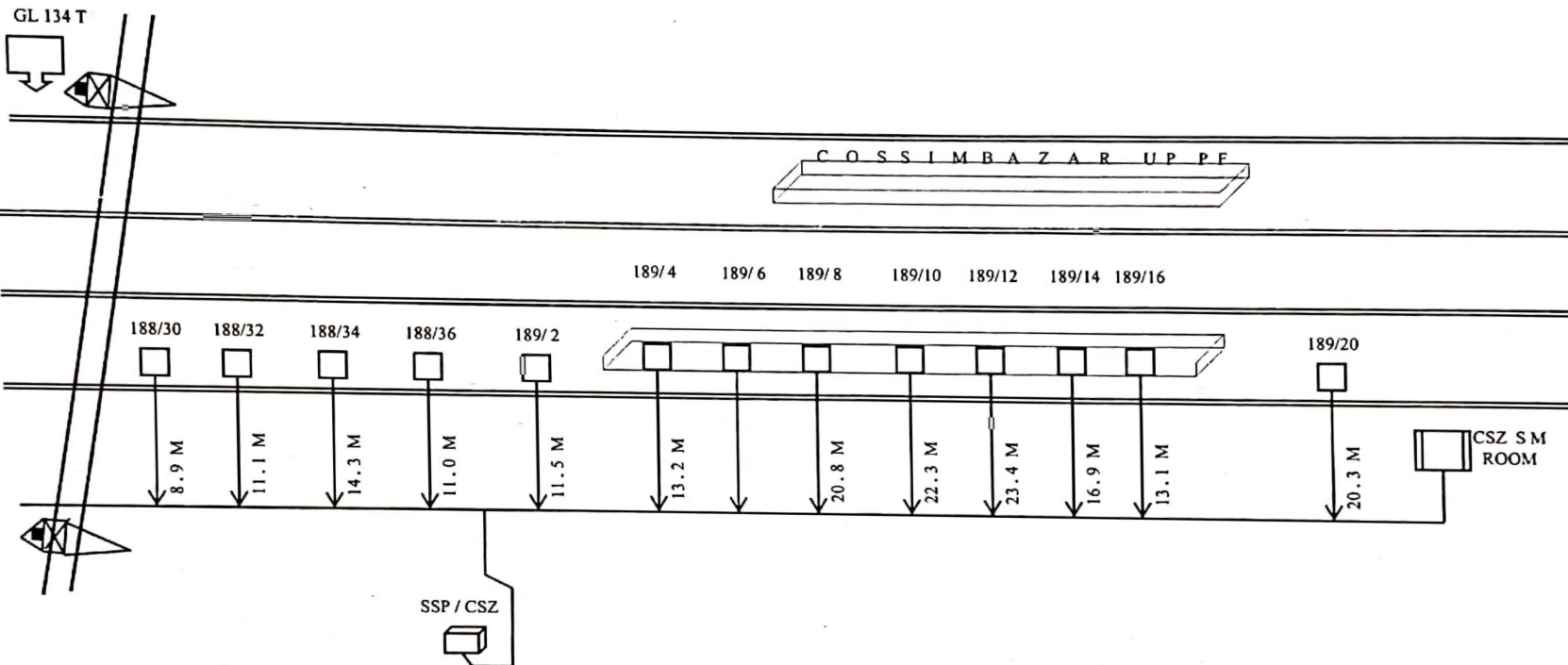
PARAM ENTERPRISES (P) LIMITED KOLKATA-1	6 QUAD CABLE LAYING PLAN SEC: SARGACHHI TO BERHAMPORE EASTERN RAILWAY SEALDAH DIVISION	PARAM	JE / T / CON / SDAH	DSTE / CON / SDAH	DRAWING NO	SHEET NO
					PERFT / 12 / 2016	PAGE 10 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		



PARAM ENTERPRISES (P) LIMITED KOLKATA- 1	6 QUAD CABLE LAYING PLAN SEC:BAHARAMPUR TO COSSIMBAZAR EASTERN RAILWAY SEA LDAH DIVISION	PARA M	JE/T/CON/SDAH	DSTE/CON/SDAH	DRAWING NO	SHEET NO
					PERFT/07/2016	PAGE 6 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		

KNJ ←

→ LGL



PARAM ENTERPRISES (P) LIMITED KOLKATA- 1	6 QUAD CABLE LAYING PLAN SEC:BAHARAMPUR TO COSSIMBAZAR EASTERN RAILWAY SEA LDAH DIVISION	PARAM	JE/T/CON/SDAH	DSTE/CON/SDAH	DRAWING NO	SHEET NO
					PERFT/07/2016	PAGE 6 OF 10
		PREPARED BY	CHECKED BY	APPROVED BY		

QUAD CABLE TESTING REPORT

BPC-SGV SECTION

Type of Quad Cable /Section	No of Conductor in Use	No of conductors as spare in Good Condition	Name of Running Circuits	No of conductor defective due to break	No of conductor defective due to low insulation	Remarks
6 – Quad / SGV-BPC	10 nos conductors in use	10 nos conductor	BPAC UP&DN, UFSBI, Block phone,	04	NIL	NIL

BPC-CSZ SECTION

Type of Quad Cable /Section	No of Conductor in Use	No of conductors as spare in Good Condition	Name of Running Circuits	No of conductor defective due to break	No of conductor defective due to low insulation	Remarks
6 – Quad / BPC-CSZ	14 Nos conductors in use	10 nos conductor as spare	BPAC UP&DN, UFSBI, Block phone, Auto Phone of SS, Auto Phone of TSS,	NIL	NIL	NIL

OTDR report both side BPC

SECTION: SGV-BPC				WAVE LENGTH:1550				DATE-25.08.2022
FIBER NO.	DISTANCE	TOTAL LOSS	DB/KM	OTDR EVENT				REMARKS
1	Rly working							RLY S/H WORKING (SGV-BPC)
2	9.645	3.125	0.324					RLY S/H SPARE (SGV-BPC)
3	Rly working							RLY S/H WORKING (SGV-BPC)
4	RLY TT WI-FI							RLY TT WI-FI

SECTION: BPC-SGV				WAVE LENGTH: 1550				DATE-25.08.2022
FIBER NO.	DISTANCE	TOTAL LOSS	DB/KM	OTDR EVENT				REMARKS
1	Rly working							RLY S/H WORKING (BPC-SGV)
2	9.644	2.775	0.288					RLY S/H SPARE (BPC-SGV)
3	Rly working							RLY S/H WORKING (BPC-SGV)
4	RLY TT WI-FI							RLY TT WI-FI

Earth Resistance Measurement

Name of Station:- BPC

Sl No	Type of Earth	Date of Testing	Measured Value	REMARKS
1	Earth – Maintenance Free	19.12.2022	1.45 ohm	Require New Earthing installation

SPD TESTING

Sl No	Type of SPD	Availability	Equipment Connected	Date of Testing
1	Class A	Not Available	-	-
2	Class B & C	Available	connected with charger input	19.12.2022
3	Class c	Available	Connected with DC supply	19.12.2022

Status of Power Supply & Battery at BPC

Sl No	Power supply for Telecom Gear	Location	Type of Electric Supply	Charger	Battery
1	OFC Circuit	OFC (BPC)	Local power supply and AT power supply	48V-25 Amps, STATCON make, DOI:-FEB-2006	48 volt 120AH, LABCO make, DOI: - OCT-2017

LIST OF THE TELECOM EQUIPMENT AT BPC

1.1 At OFC Room, BPC

Sl no	ITEM	MAKE WITH SPEC	D.O.I	REMARKS/ BRIEF DESCRIPTION
1.	42U RACK	PRESIDENT	Feb-2006	
2.	19" Std rack	TEEC EE	Feb-2006	
3.	42 U RACK	PRESIDENT	Feb-2006	
4.	9U RACK	HCL	Oct-2010	
5.	Fibre termination Box		Feb-2006	
6.	FIBRE DISTRIBUTION BOX		Feb-2006	
7.	STM-4 (TJ1400) CARDS OF STM a. CEL 1 CARD b. XA14OT5 c. ST63E1 CARD d. PSU CARD e. FTU 20	TEJAS	Sep-2020	E IP- 192.168.17.20 R IP-192.168.20.17
8.	WEBFIL Fleximux (CNL) a. PSU CARD (1) b. NIM CARD (1) c. TRIB CARD (1) d. VOICE 2W/4W CARD (2) e. VOICE EXCH CARD (2) f. DATA CARD (1)	WEBFIL	Aug-2016	Address – 93 A-side-SGV B-side- E1 protection BPC-SDAH via RCIL SLOT – 1&2 2W/4W SLOT – 3&4 EXCH SLOT - 7 DATA
9.	WEBFIL Fleximux (CNL) a. PSU CARD (2) b. NIM CARD (1) c. TRIB CARD (1) d. VOICE 2W/4W CARD (2) e. VOICE EXCH CARD (4) f. DATA CARD (1)	WEBFIL	Aug-2016	Address – 79 A-side-CSZ B-side-E1 protection BPC-LGL via BSNL SLOT – 1&4 2W/4W SLOT – 2,3,5,6 EXCH SLOT - 7 DATA
10.	WEBFIL Fleximux (Auto) a. PSU CARD (2) b. NIM CARD (1) c. TRIB CARD (1) d. VOICE EXCH CARD (2)	WEBFIL	Feb-2012	Address – 68 A-side-KRP ET mux SLOT – 1 EXCH SLOT - 2EXCH
11.	WEBFIL Access MUX (Dedicated) (BPAC / UFSBI / Block phone) a. PSU CARD (1) b. NIM CARD (1) c. TRIB CARD (1) d. VOICE EXCH CARD (3)	WEBFIL	Nov 2016	Address – 93 A-side-SGV B-side-CSZ SLOT – 1 2W/4W SLOT - 2 2W/4W SLOT – 3 2W/4W

Sl no	ITEM	MAKE WITH SPEC	D.O.I	REMARKS/ BRIEF DESCRIPTION
12.	Simplex Emergency comm. a. Buffer amplifier. b. 48V to 12V DC-DC converter. c. 25-watt VHF d. Antenna e. Coaxial antenna cable.	VERON VERON MOTOROLA	Jul-2016 Jul-2016 Mar-2021 Jul-2016 Jul-2016	
13.	TMS & CMS a. G.703 MODEM b. V.35 MODEM c. G.703 MODEM d. V.35 MODEM e. Router f. LAN Extender g. E1 to Ethernet Converter h. UPS i. 3 X 12V, 26AH BATTERY j. Switch	ASMi-52 ASMi-52 TEAMLINK TEAMLINK CISCO DIGISOL NETAXCESS KIRLOSKAR AMARON CISCO	Oct-2010 Oct-2010 Oct-2010 Oct-2010 Oct-2010 JULY-2022 Oct-2021 Oct-2010 Oct-2010 JULY- 2022	For TMS/BPC For TMS/CSZ For CMS/BPC
14.	48V, 25A battery charger	Statcon	Feb-2006	
15.	48-volt battery charger	Statcon		
16.	Surge protector- B and C CLASS		Aug-2014	Connected with charger input
17.	Surge protector – C class		Aug-2014	Connected with dc supply
18.	48V OFC battery (24 X 2V /120AH)	LABCO	Oct-2017	
19.	48V battery (8 X 6V /120AH)	JUMBO (3 nos.) EXIDE (5 Nos.)	Feb-2007	
20.	BATTERY RACK		Oct-2017	
21.	E1 MODEM	TEAMLINK		For BSNL Protection
22.	CT box 20P – 04 Nos.		Feb-2006	
23.	CT box 10P – 04 Nos.			
24.	IP Telephone Exchange	GENX	Jan-2020	
25.	Wi-Fi System a. OLT b. ONT (2) c. AP (2) d. RACK	TEJAS TEJAS TEJAS TEJAS	Aug-2019	At PF#1 At PF#1

1.2 At Panel Room, BPC

Sl no	ITEM	MAKE WITH SPEC	D.O.I	REMARKS/ BRIEF DESCRIPTION
26.	Telephone -- a. Section Control Phone b. S&T Control Phone c. TPC Control Phone d. Railway Auto Telephone e. BSNL Telephone f. Magneto Telephone	BENTRON BENTRON BENTRON PRAMODA BSNL TELEREACH		Communicating with gate no. 127/E & 128/E
27.	VHF -- a. 25-watt VHF Radio base b. Microphone with cord c. Co axial cable d. Antenna	HTY		
28.	12V /10A SMPS	AXICOM		
29.	12V, 100 AH BATTERY	EXIDE		
30.	CT box 20pair --	--		
31.	12-volt control telephone power supply unit.	EPSILON		
32.	16 AMP SURGE PROTECTOR	URBAN ENGG		
33.	DTMF way side equipment for control communication (03)	BENTRON		DIRECTLY CONNECTED TO MUX
34.	PA System a. Amplifier 300W b. Microphone c. Microphone cord d. Microphone Stand e. Bell Switch f. Horn / Speaker	AHUJA		@PF1 → Horn- 02,Box -07 @PF2 → Horn- 02,Box- 02 Main Entrance → Box- 01 2 nd Class W/H → Box- 01 Upper Class W/H → Box- 01 Booking area → Box- 02 FOB → Box- 02
35.	CIB a. CDC b. CDS c. PDC (2) d. Media converter e. CGDB (30) f. UPS g. Battery, 6 X 12V, 42AH	Advance Hi-tech DELL CISCO Advance Hi-tech Syrotech Advance Hi-tech Hitachi EXIDE		CIB & PDC are installed in PF#1&2

1.3 At Booking office, BPC

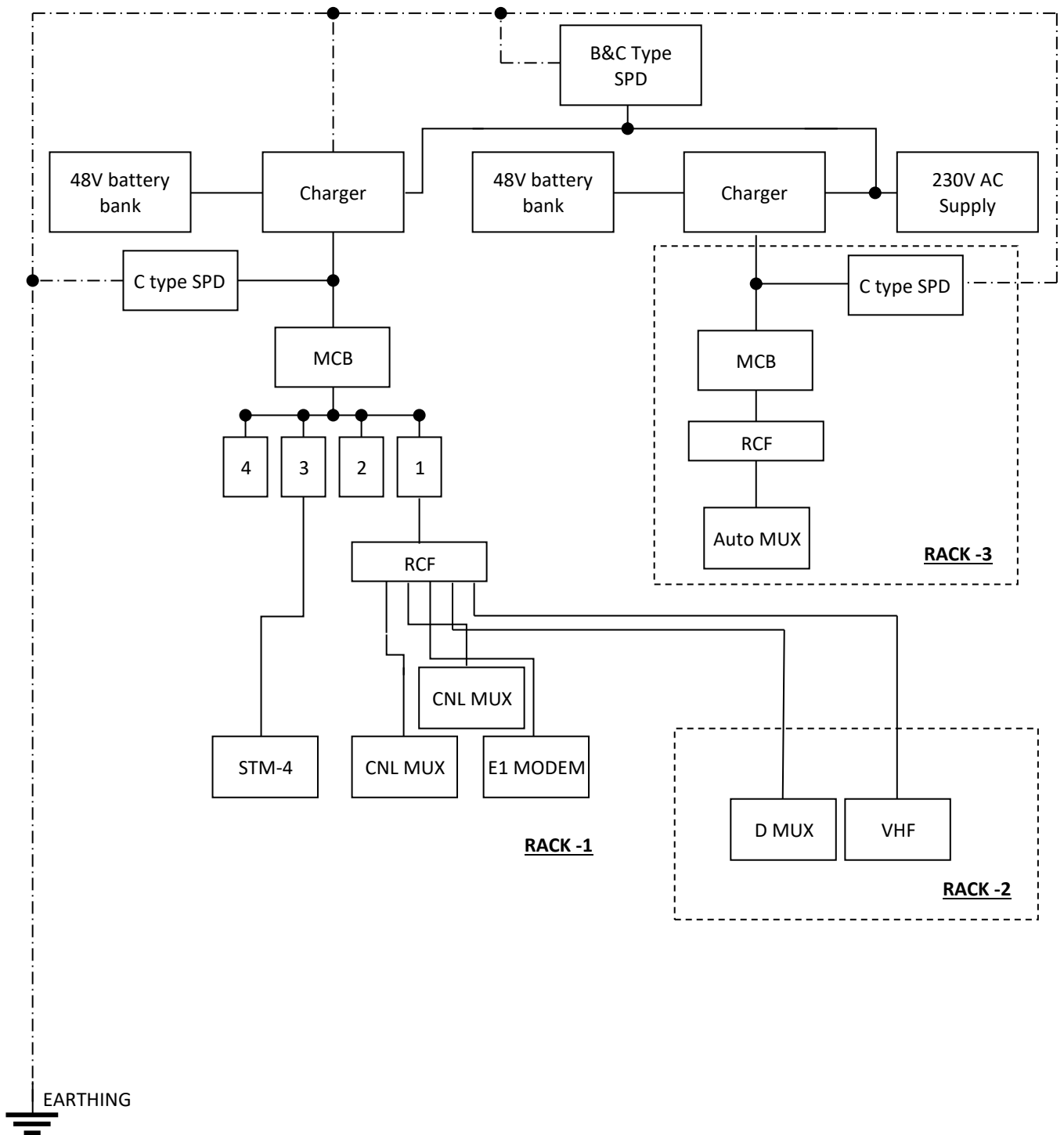
Sl no	ITEM	MAKE WITH SPEC	D.O.I	REMARKS/ BRIEF DESCRIPTION
36.	Unreserved ticketing system a. G.703 modem b. V.35 modem c. Router (08 PORT) d. Switch (24 port) e. Terminal server. f. Equipment rack g. Battery – 3 X 12V, 65ah h. Stabilizer i. Online UPS j. Railway auto Phone	TEAM LINK TEAM LINK CISCO CISCO CYGNUS PRESIDENT EXIDE VERTEX NUMERIC PROTEL		04 Nos. E1 link with 1) BPC-SGV 2) BPC-CSZ 3) BPC-SDAH 4) BPC-NKG (RCIL) 01 No. 64 kbps link 1) BPC-LGL
37.	Passenger Reservation System a. Terminal server. b. Equipment rack c. Chart Printer d. Railway auto Phone	CYGNUS PRESIDENT PRINTRONIX PRAMODA		

SPARES AVAILABLE AT BPC

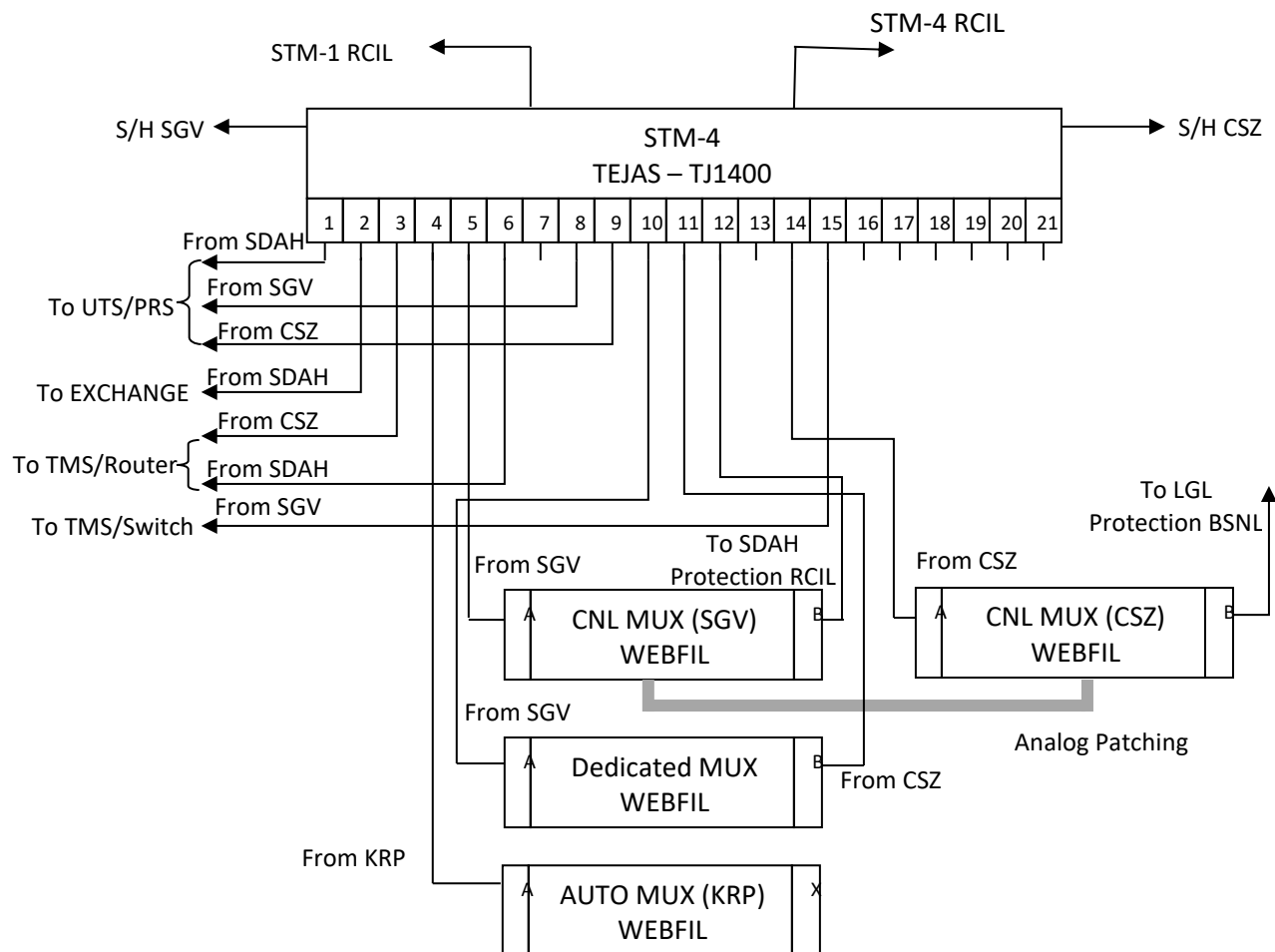
	EQUIPMENT	NOS.
1	STM (TJ100MC1)	01
2	CONL TELEPHONE	01
3	MAGNETO TELEPHONE	03
4	6 QUQAD CABLE	5 Mtr.
5	SWITCH BOARD CABLE	10Mtr
6	DTMF CARD	01
7	MUX PSU CARD	02
8	MUX VOICE	02
9	MUX NIM CARD	02
10	MUX TRIB CARD	01
11	MUX EX CARD	02
12	MUX SUB VOICE CARD	01
13	AUTO TELEPHNE	03

BLOCK DIAGRAM OF EQUIPMENT CONNECTIVITY AT BPC

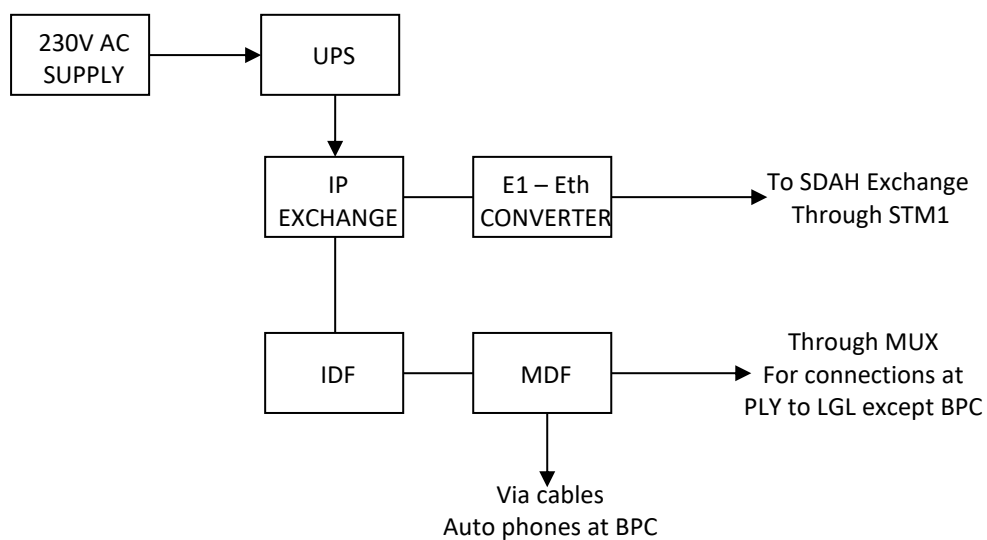
48 VOLT POWER DISTRIBUTION TO OFC EQUIPMENT AT BPC



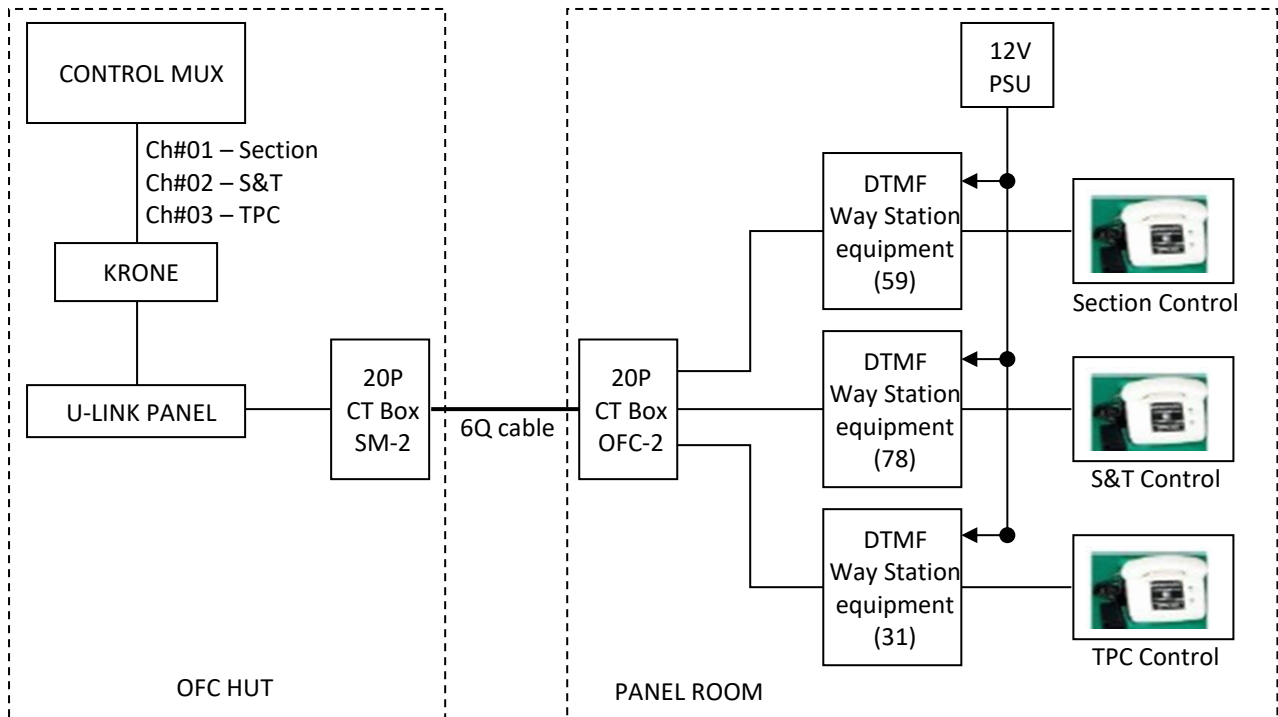
BLOCK DIAGRAM OF OFC EQUIPMENT AT BPC



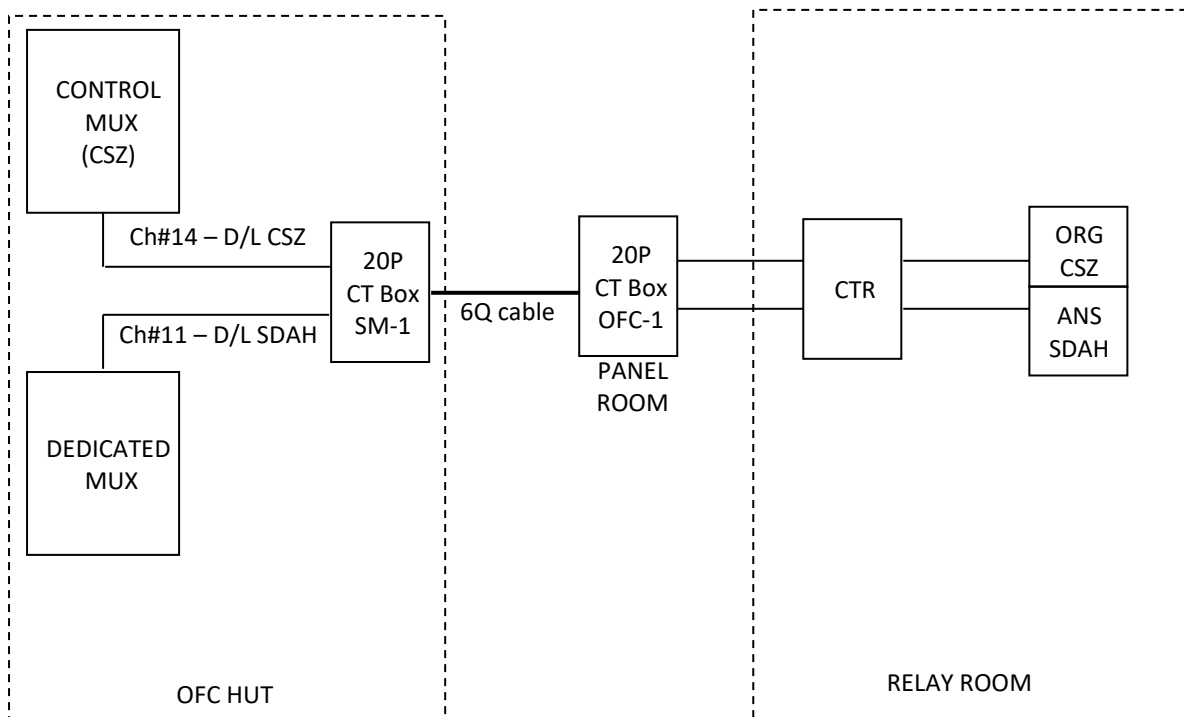
BLOCK DIAGRAM OF TELEPHONE EXCHANGE AT BPC



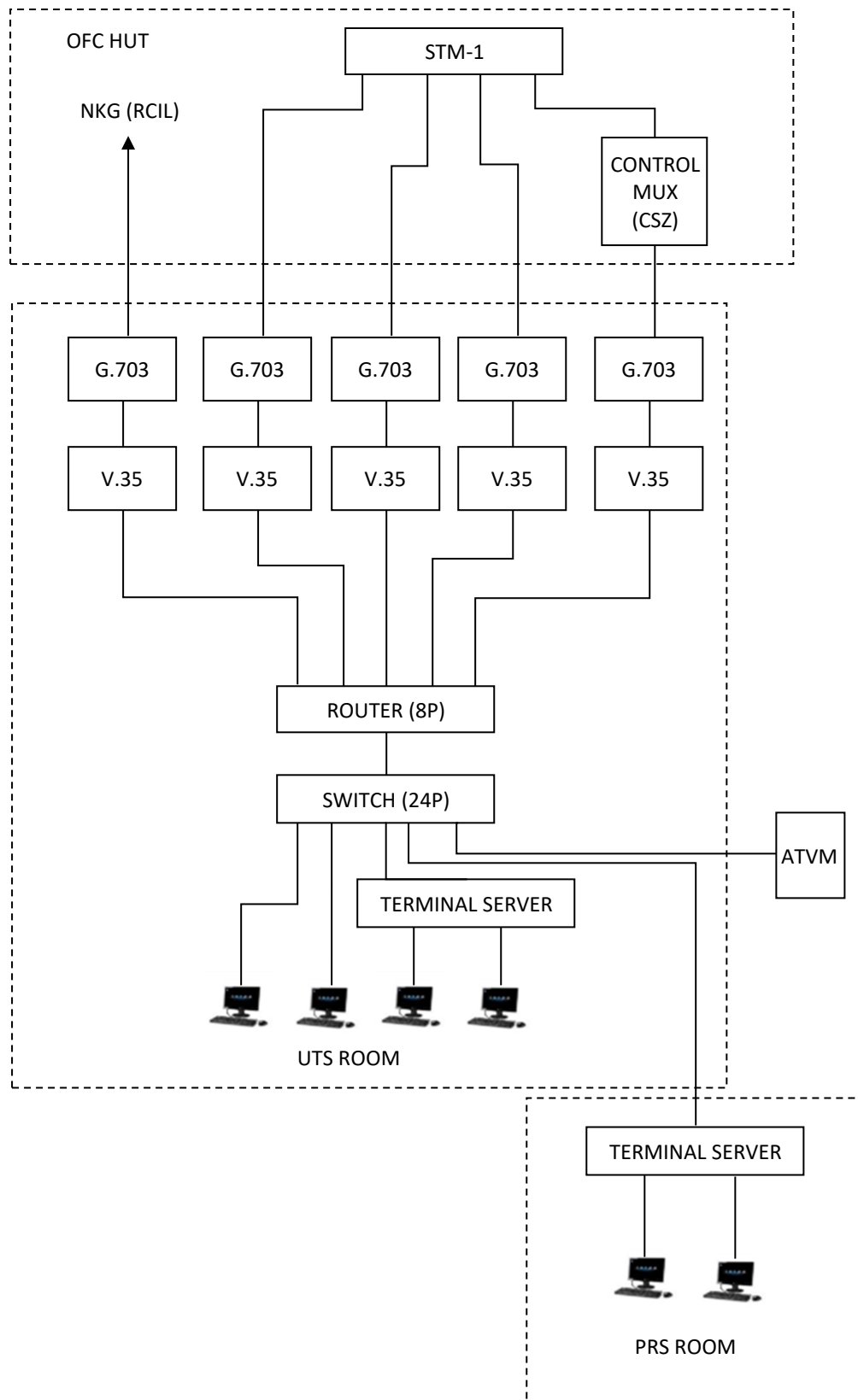
BLOCK DIAGRAM OF CONTROL COMMUNICATION AT BPC



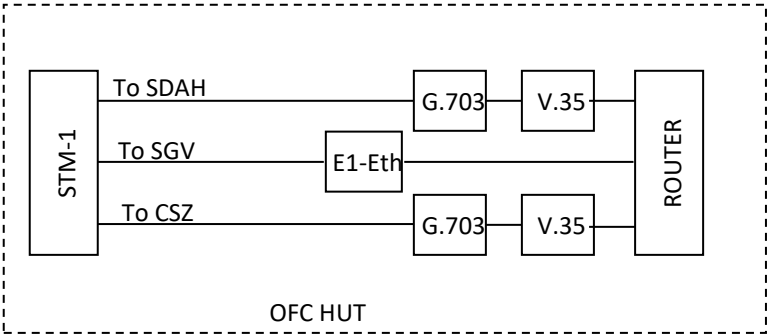
BLOCK DIAGRAM OF DATALOGGER AT BPC



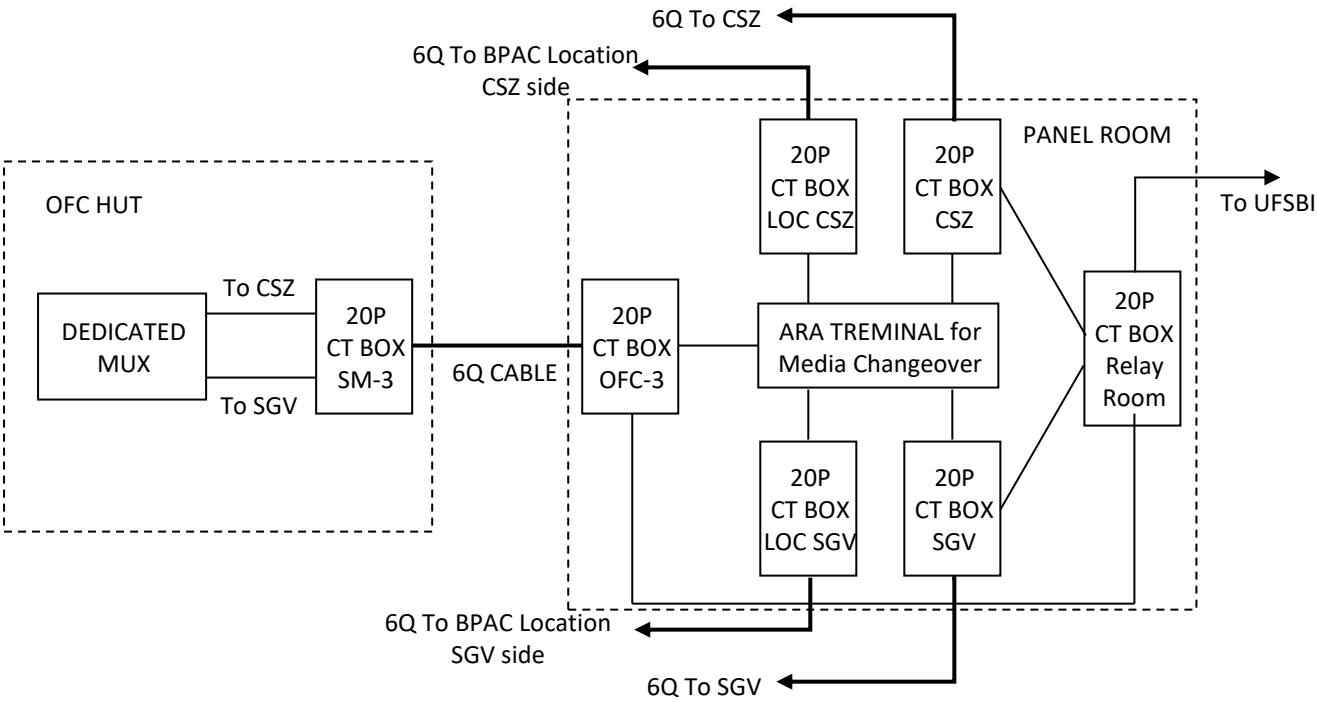
BLOCK DIAGRAM OF UTS/PRS AT BPC



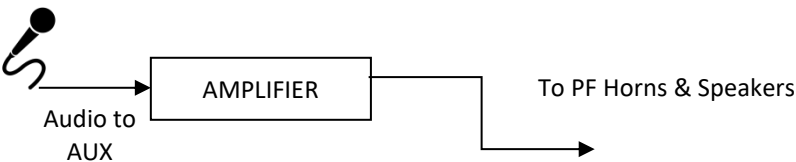
BLOCK DIAGRAM OF TMS & CMS AT BPC



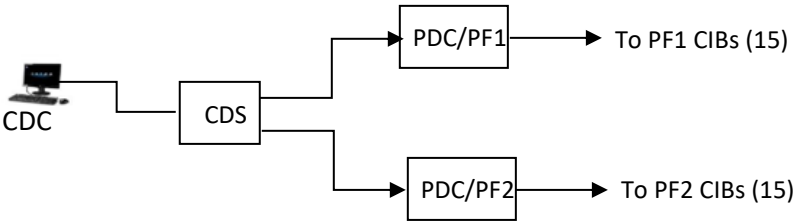
BLOCK DIAGRAM OF BPAC & UFSBI LINK AT BPC



BLOCK DIAGRAM OF PA SYSTEM AT BPC



BLOCK DIAGRAM OF CIB SYSTEM AT BPC



AMC Details for Telecom Equipment at BPC

SI No	Telecom Equipment	AMC Details	Equipment Performance
1	IP TELEPHONE EXCHANGE	AMC available With AP international	Working noarmal
2	ROUTER of TMS & CMS CKT	AMC available	Working normal
3	VSS EQUIPMENT	AMC Available with RCIL	WORKING Normal

DEAD STOCK at BPC

SL.no.	NAME OF THE ITEM	MAKE	QTY	DOI	SL. NO.	REMARKS
1	TMS Kit	Central Electric Limited	1			Faulty
2	Battery Charger,12V	Ex-Servicemen	1			Faulty
3	Battery Charger,12V	Ultra	1			Faulty
4	Auto ANNOUNCEMENT	AVIS	3			Very Old and Faulty
5	Magneto	Atlanta,Kumar Electrical, TeleReach	98			Very Old and Faulty
6	Auto Phones	Different Manufacturers	52			Very Old and Faulty
7	CNL Phones	Epsilon and Bentron	48			Very Old and Faulty
8	PUSH Button Magneto		8			Very Old and Faulty
9	RR Cell		52			Very Old and Faulty
10	TIB	Efftronics	4			Old and Faulty
11	Decoder Card Case		25			Very Old
12	Battery Bank, 2V	Southern	36			Released
13	SMPS	(A.) Sanchar	3			very old & faulty
		(B.) Vspectra	1			very old & faulty
		(C.) Axiom	3			very old & faulty
14	SMR, 48V	SATACON	7			Faulty & old
15	GPS Clock	Efftronics	3			Released & Faulty
16	PSU,24/12V	Beltron	3			very old & faulty
17	AMPLIFIER	Bosch	2			very old & faulty
18	VOICE CONTROLLER	Bosch	2			very old & faulty
19	AMPLIFIER	AK acoustic, 265w	1			very old & faulty
20	MONITOR	(A.) HCL	1			Released & OLD
		(B) SAMSUNG	1			Released &old
21	EXCHANGE	CORAL FLEXICOM 5000	1			Released &old
22	DTMF decoder Card	Epslion , bentron	22			faulty & old

23	MDCH	Efftronics	2	Faulty & old
24	STM	(a)FIBCOM6320	8	Released
		(B)FIBCOM6325	1	released
25	TV	SAMSUNG	1	Faulty & old
26	MOTHER BOARD	WEBFIL MUX	4	FAULTY & Released

SHORT FALL OF ENGINEERING AND ELECTRICAL FITTING

Station – BPC

Sl No	Department	Remarks
1	Engineering	Need for painting wall of ofc room.
2	Electrical	Need of power board and socket replacement.