

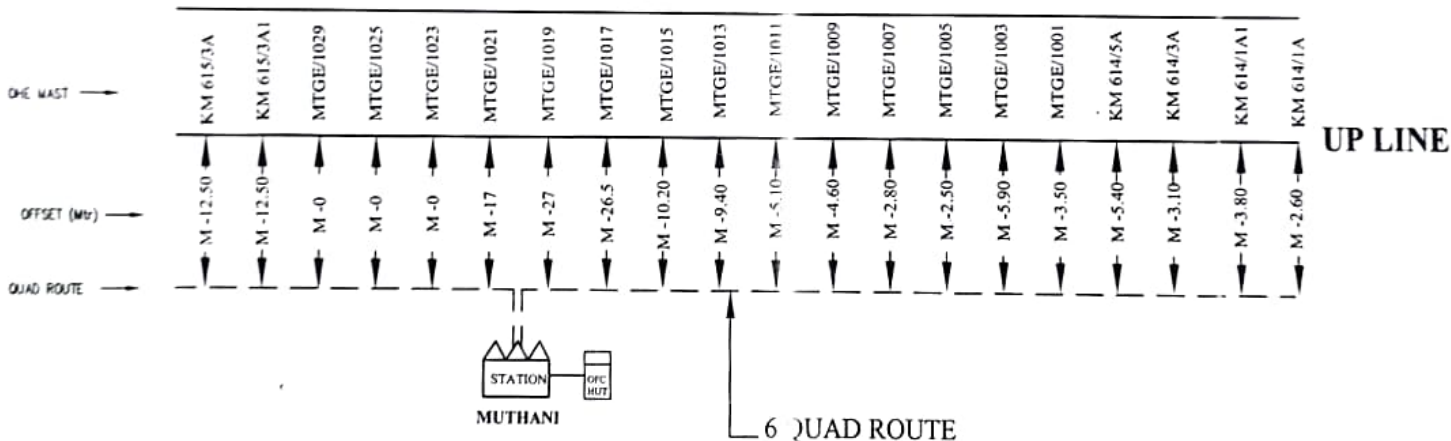
6 QURD CABLE

ROUTE PLAN

SECTION

MUTHANI -PUSAULI-KURDA

DN LINE



LEGEND

1	— —	PROPOSED ROUTE	4		CULVERT	7		STATION
2	— — —	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		GIRCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

BABA PROJECTSPVT. LTD. RANCHI	
GABRIEL	<i>m. sharma</i>
DRAWN	CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CSTE/W/MGS

CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

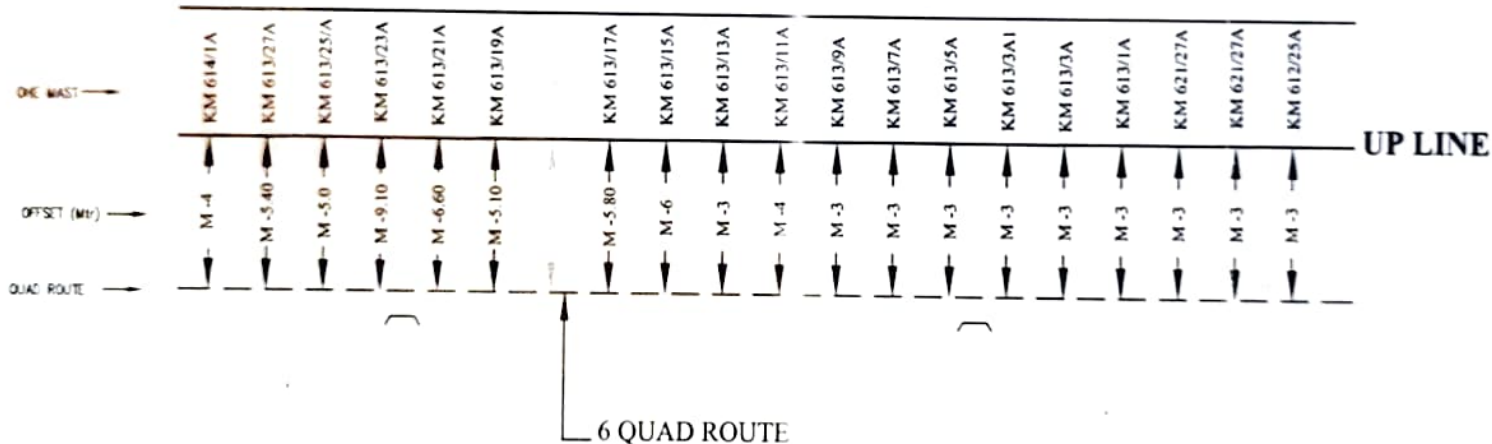
P-48/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO:
SEC

DN LINE

CV. NO 643A

CV. NO 643



LEGEND

1	— —	PROPOSED ROUTE	4		CULVERT	7		STATION
2	— — —	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		G.I. RCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

P-49/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO:
SEC

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CSTE/W/MGS

AS TE/W/MGS

CHECKED

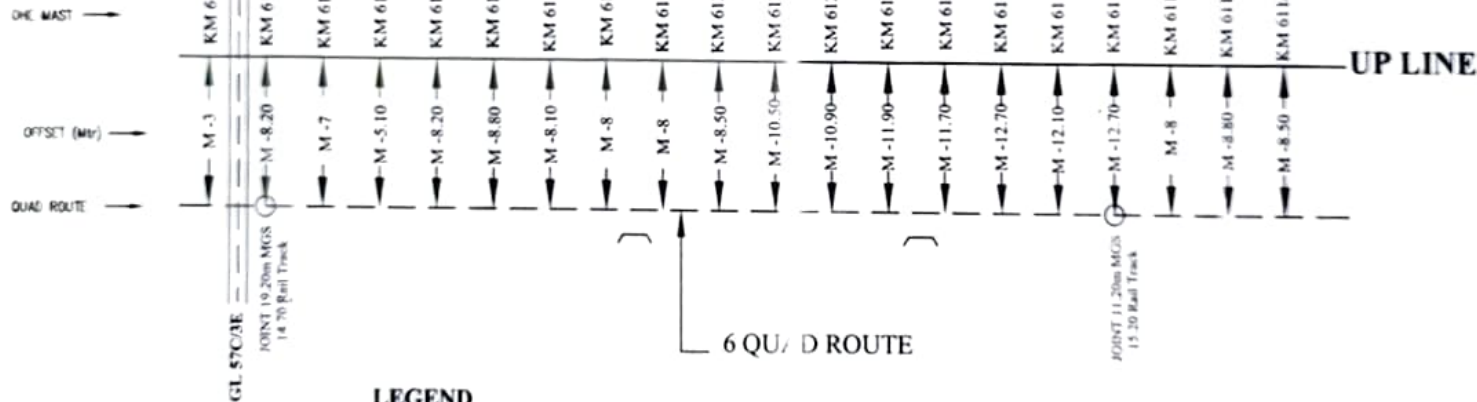
SSE/T/W/MGS

SSE/S/W/MGS

DN LINE

CV. NO 642

CV. NO 641



LEGEND

1	— — —	PROPOSED ROUTE	4		CULVERT	7		STATION
2	— — —	RAILWAY TRACE	5		LEVEL CROSSING GATE	8		OFC HUT
3		GIRCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

P-50/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO:
SEC

E.A.B.A. PROJECTS PVT. LTD.
RANCHI

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CHECKED

Divy / STE/W/MGS

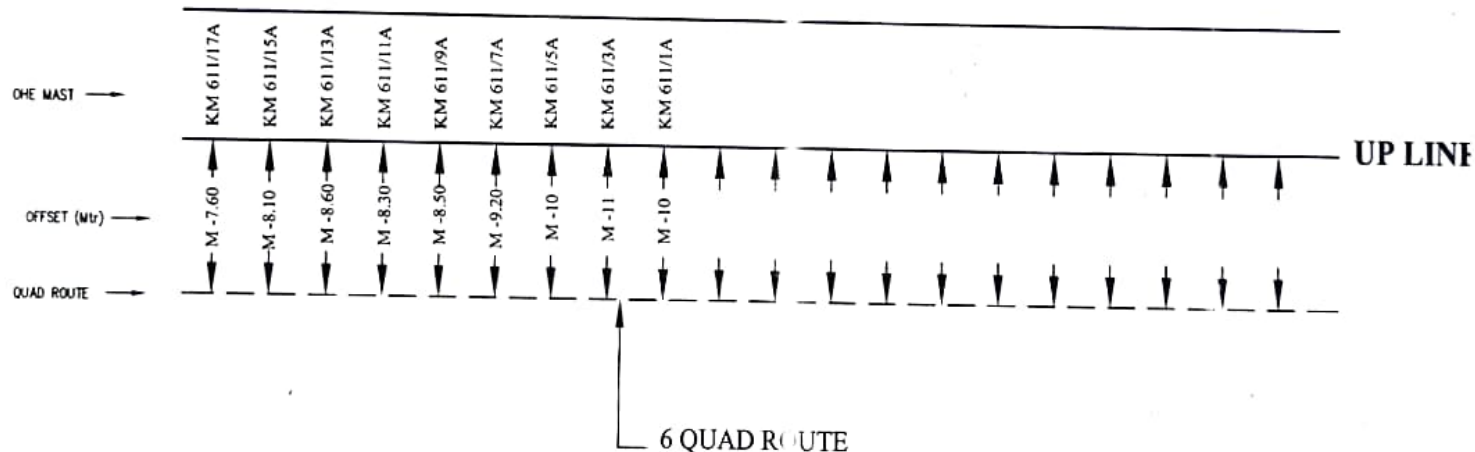
AS / F/W/MGS

SSF / T/W/MGS

SSE / S/W/MGS

CHECKED

DN LINE



LEGEND

1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL CROSSING GATE	8		OFC HUT
3		G.I./RCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

BABA PROJECTSPVT. LTD.
RANCHI

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CHECKED

GABRIEL

DRAWN

CHECKED

DR. STE/W/MGS

AS. STE/W/MGS

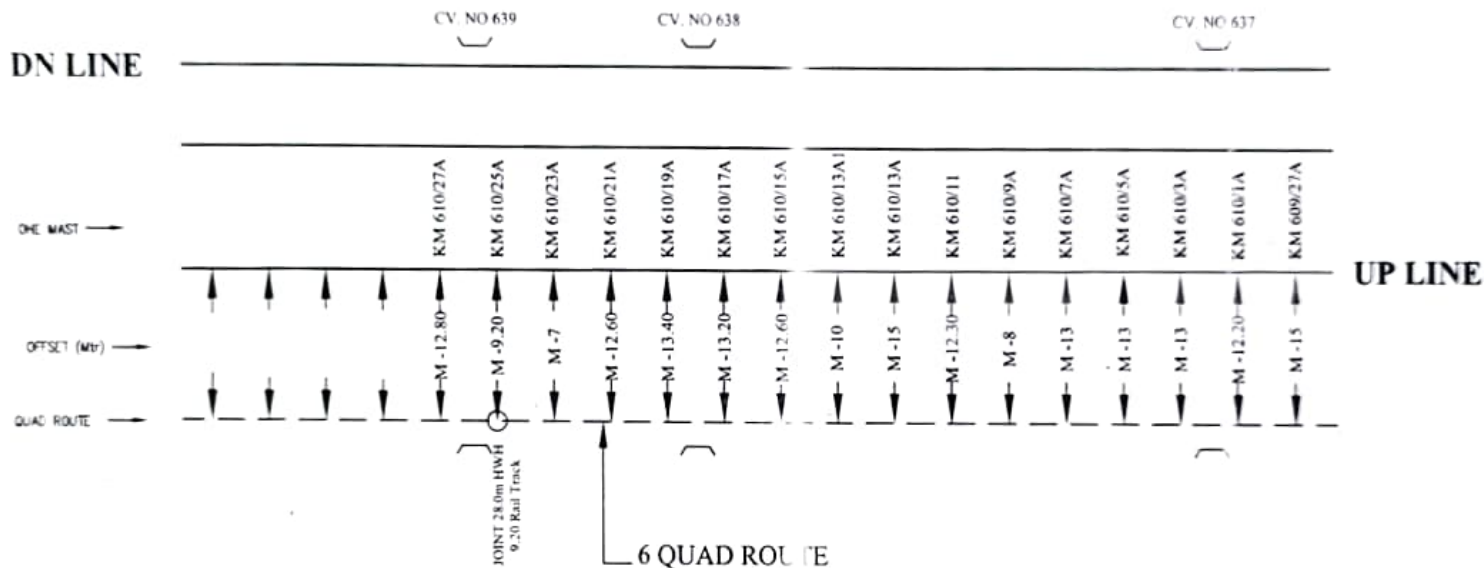
SSE/T/W/MGS

SSE/S/W/MGS

P-51/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO
SEC

DN LINE



LEGEND

1		PROPOSED ROUTE	4		CULVERT	7		STATION
2		RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		G.T/ROCK PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM ONE MAST.

P-52/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO
SEC

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECK'D

E.C.R.
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CSTE/W/MGS

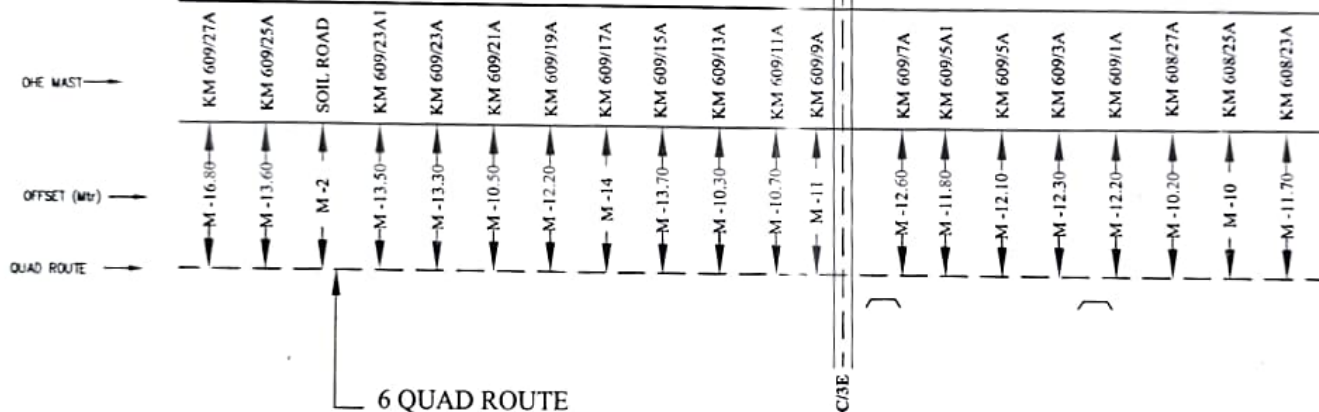
Asst. Engr/W/MGS.

CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

DN LINE



UP LINE

LEGEND

1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		G.I./RCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

P-53/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CSFE/W/MGS

CHECKED

SSFE/T/W/MGS

SSFE/S/W/MGS

DN LINE

CV. NO 634

CV. NO 633

CV. NO 632

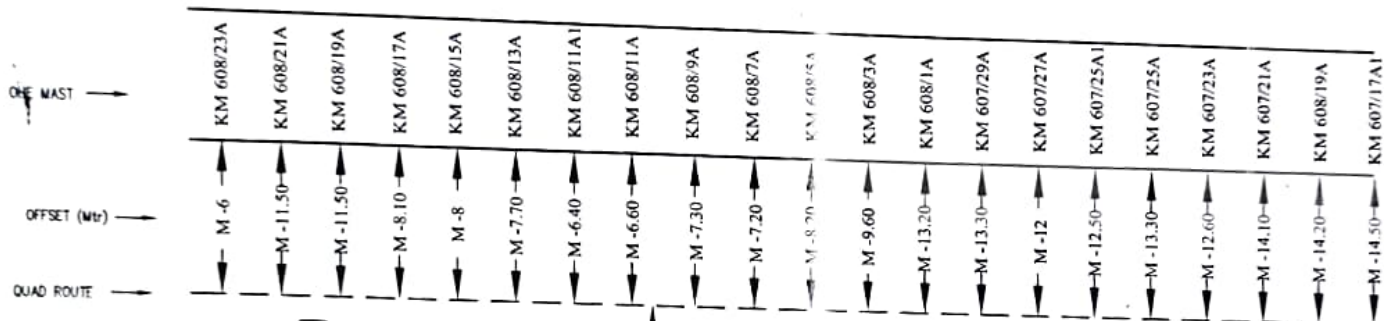
ORE MAST

OFFSET (Mtr)

QUAD ROUTE

UP LINE

6 QUAD ROUTE



LEGEND

1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		G.I./RCC PIPE	6		CABIN	9		App. Care

LEGEND

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM ORE MAST.

P-54/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO
SEC

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DE W/N

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy/CTE/W/MGS

CHECKED

AS/TE/W/MGS

SSE/T/W/MGS

SSE/S/W/MGS

DN LINE

CV. NO 631

TRACK CROSSING
1



TRACK CROSSING
2

UP LINE

OHE MAST

OFFSET (Mtr)

QUAD ROUTE

LEGEND

6 QUAD ROUTE

PUSAULI

OFC HUT



1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		G.I./RCC PIPE	6		CABIN	9		App Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

P-55/100

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

By CSTE/W/MGS

Asst E/W/MGS

CHECKED

Sr E/T/W/MGS

SSE/S/W/MGS

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO:
SEC

HWH

DN LINE

CV. NO 630

CV. NO 629

OHE MAST

OFFSET (Mtr)

QUAD ROUTE

UP LINE

6 QUAD ROUTE

JOINT 11.20m HWH
13.40 Rail Track

HDD-672m

JOINT 20.40m HWH
5.0m From Rail TrackJOINT 31.0m HWH
24.60 Rail Track

LEGEND

1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL CROSSING GATE	8		OFC HUT
3		G.I./RCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CSTE/W/MGS

ASST W/MGS

CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

P-56/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DO:
SFC

DN LINE

CV. NO 628

CV. NO 627

ONE MAST

OFFSET (Mtr)

QUAD ROUTE

UP LINE

JOINT 100m MGS
17.40 R. Track

6 QUAD ROUTE

LEGEND

1	---	PROPOSED ROUTE	4	U	CULVERT	7	Station	
2	=====	RAILWAY TRACK	5	=====	LEVEL XING GATE	8	OFCHUT	
3	⊞	GTRCC PIPE	6	⊞	CABIN	9	App. Care	

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD
CABLE IS TAKEN FROM ONE MAST.

P-57/100

BABA PROJECTSPVT. LTD.
RANCHIE.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CHECKED

GABRIEL

DRAWN

CHECKED

Dy CSTE/W/MGS

As TE/W/MGS

SSE/T/W/MGS

SSE/S/W/MGS

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

DN LINE

CV. NO 626

CV. NO 5

CV. NO 62

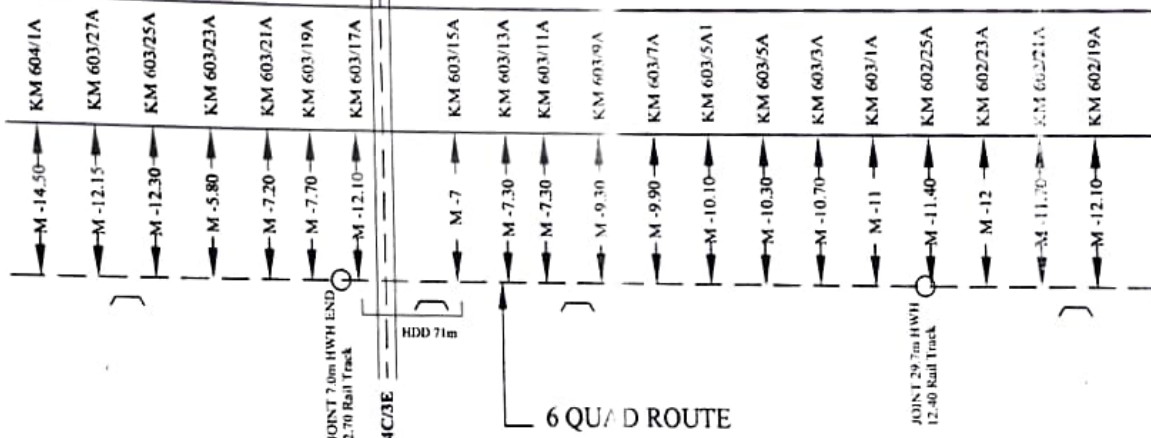
CV. NO 623

OHE MAST

OFFSET (Mm)

QUAD ROUTE

UP LINE



LEGEND

1	---	PROPOSED ROUTE	4		CULVERT	7		STATION
2	==	RAILWAY TRACK	5		LEVEL CROSSING GATE	8		OFC HUT
3		GRC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD
CABLE IS TAKEN FROM OHE MAST

P-58/100

BABA PROJECTS PVT. LTD.
RANCHI

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

CHECKED

GABRIEL

DRAWN

CHECKED

D. CSTE/W/MGS

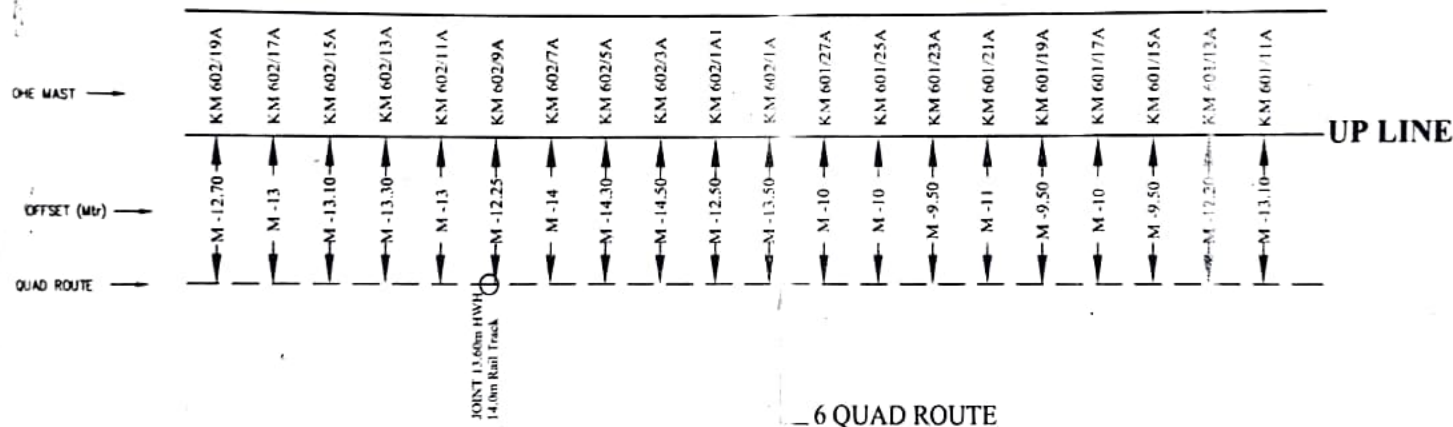
A. TE/W/MGS

SSE/T/W MGS

SSE/T/W MGS

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

DN LINE



LEGEND

1	— —	PROPOSED ROUTE	4		CULVERT	7		STATION
2	— — —	RAILWAY TRACK	5		LEVEL XING GATE	8		OFC HUT
3		GTRCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD CABLE IS TAKEN FROM OHE MAST.

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CSTE/W/MGS

AS E/W/MGS

CHECKED

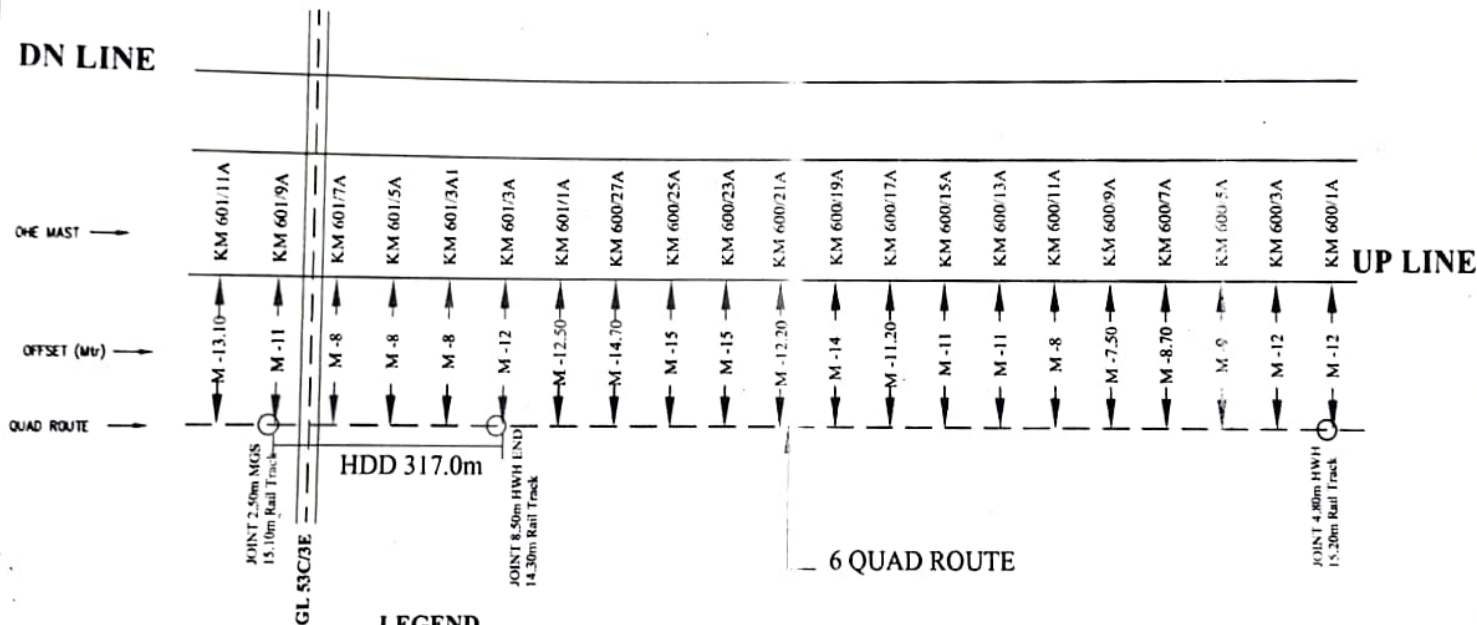
SSE/T/W/MGS

SSE/S/W/MGS

P-59/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

DN LINE



LEGEND

1	— —	PROPOSED ROUTE	4		CULVERT	7		STATION
2	— — —	RAILWAY TRACK	5		LEVEL CROSSING GATE	8		OFC HUT
3		G.I. RCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD
CABLE IS TAKEN FROM ONE MAST.

P-60/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CST^E/W/MGS

A TE/W/MGS

CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

DN LINE

OHE MAST

OFFSET (Mtr)

QUAD ROUTE

GL 52C/3E

CV. NO 621

DN LINE

CV. NO 62

KM 599D/12

KM 599D/10

KM 599D/8

KM 599D/6

KM 599D/04

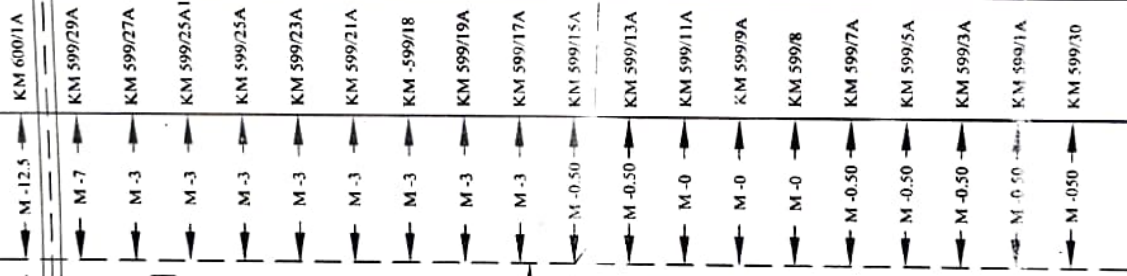
KM 599D/02

DFCC
LINE

UP LINE

CV. NO 619

UP LINE



HDD DUBLE AP
783.0m

CABLE LAID
599/14

6 QUAD ROUTE

LEGEND

1	—	PROPOSED ROUTE	4		CULVERT	7		STATION
2	—	RAILWAY TRACK	5		LEVEL XING GATE	8		DFCC HUT
3		DFCC PIPE	6		CABIN	9		App. Care

NOTE:-

ALL OFFSET MEASUREMENT FOR 6 QUAD
CABLE IS TAKEN FROM OHE MAST.

BABA PROJECTSPVT. LTD.
RANCHI

GABRIEL

DRAWN

CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

Dy CSTE/W/MGS

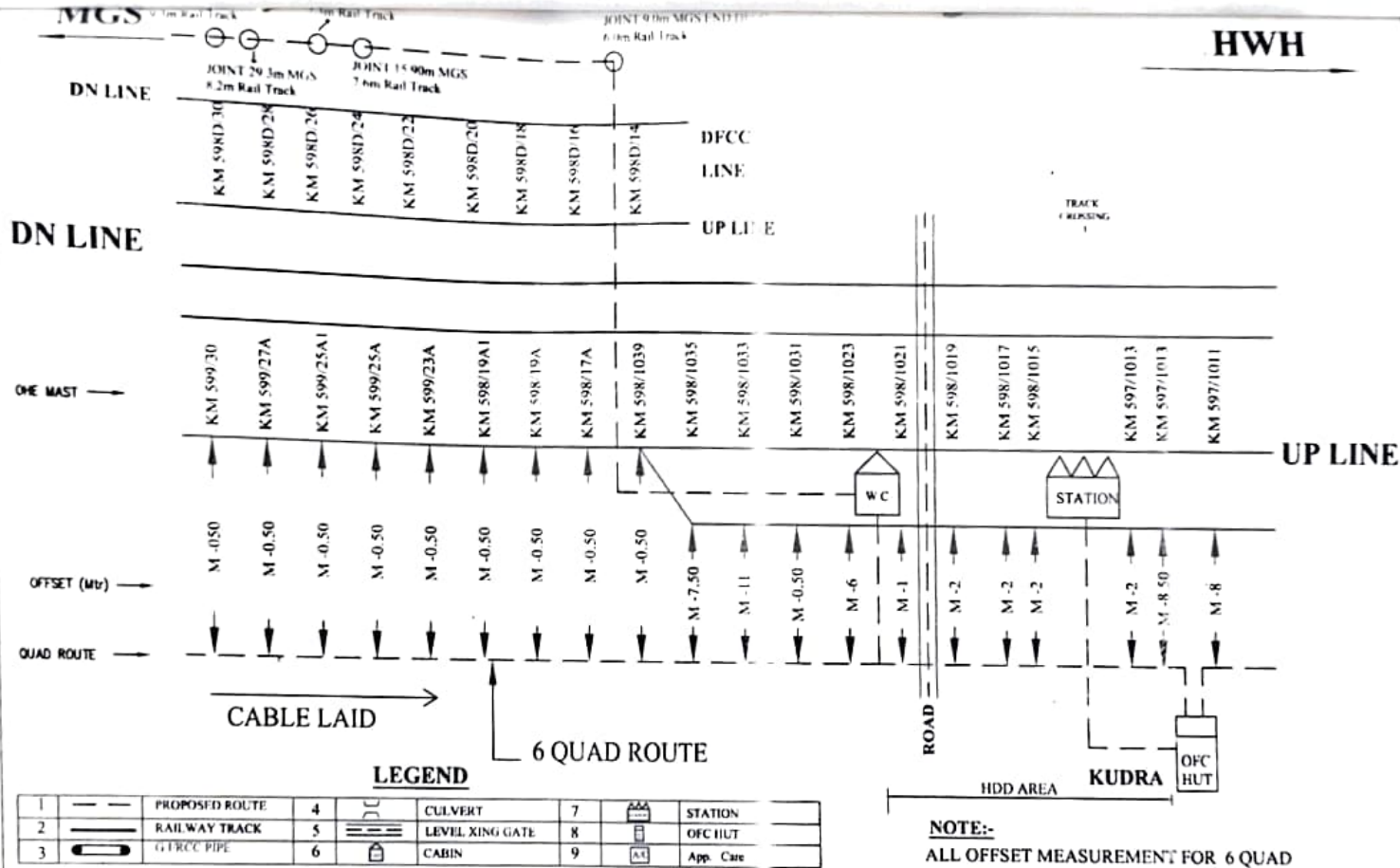
CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

P-61/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC



BABA PROJECTS PVT. LTD.
RANCHI

GABRIEL
DRAWN
CHECKED

E.C.R
MUGHALSARAI
DIVISION
(WORKS UNIT)

APPROVED

DY CSTE/W/MGS

CHECKED

SSE/T/W/MGS

SSE/S/W/MGS

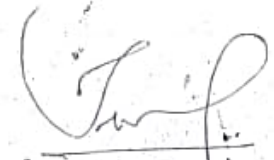
P-62/100

6 QUAD
CABLE
ROUTE
PLAN
MGS-DOS
SEC

PSE (EIC) - KTO (LWC)

Sec - PSE - KTO, 6 Quad Cable Testing, dt. 23.12.15

ad	Pair	L1 E (M Ω)	L2 E (M Ω)	L1 L2 (M Ω)	Loop Res.	Link Armour
Qd 1	1st (L1, L2)	150 150	150	150	481 Ω	150 M Ω Buzzer is sounding
	2nd (L3, L4)	150	150	150	482 Ω	
Qd 2	3rd (L5, L6)	150	150	150	481 Ω	
	4th (L7, L8)	150	150	150	480 Ω	
Qd 3	5th (L9, L10)	150	150	150	481 Ω	
	6th (L11, L12)	150	150	150	483 Ω	
Qd 4	7th (L13, L14)	150	150	150	480 Ω	
	8th (L15, L16)	150	150	150	480 Ω	
Qd 5	9th (L17, L18)	150	150	150	482 Ω	
	10th (L19, L20)	150	150	150	483 Ω	
Qd 6	11th (L21, L22)	150	150	150	480 Ω	
	12th (L23, L24)	150	150	150	482 Ω	


 (SVERM)
 SSEIT/W/MGS
 23.12.15

Rasad
 MCM/Tek
 23.12.15
 A-4-Sush
 Tech I
 KTO
 23/12/15

Krishna
 SSEIT/MGS
 23-12-15

1000 ft. Cable

1-2 - 482
3-4 - 484
5-6 - 482
7-8 - 482
9-10 - 483
11-12 - 486
13-14 - 483
15-16 - 482
17-18 - 485
19-20 - 486
21-22 - 483
23-24 - 485

Magnus Cable

1-2 - 100R
3-4 - 100R
5-6 - 100R
7-8 - 100R
9-10 - 100R
11-12 - 100R
13-14 - 100R
15-16 - 100R
17-18 - 100R
19-20 - 100R
21-22 - 100R
23-24 - 100R

Magnus Cable to Earth

1 - 100R
2 - 100R 0.5H
3 - 100R
4 - 100R
5 - 100R
6 - 100R
7 - 100R
8 - 100R
9 - 100R
10 - 100R
11 - 100R
12 - 100R
13 - 100R
14 - 100R
15 - 100R
16 - 100R
17 - 100R
18 - 100R
19 - 100R
20 - 100R
21 - 100R
22 - 100R
23 - 100R
24 - 100R

[Signature]
S.S. EIT/WW/BBU
9-12-15

[Signature]
S.P. Drivstana
JE/Sig/W

600 Cable tested Cond to Cond
100R & Cond to Earth 100R -
accept Code No (2) having 0.5H

[Signature]
S.S. EIT/WW
10-12-15

[Signature]
JE/Sig

[Signature]
S.S. EIT/WW
10/12/15