



**CENTRAL UP GAS LIMITED
(CITY GAS PROJECT IN KANPUR & BAREILLY)**

TENDER FOR

**RATE CONTRACT AND EMPANELMENT OF CONTRACTORS FOR
INSTALLATION OF G.I. PIPE AND LAST MILE CONNECTIVITY
FORCITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO,
BAREILLY & JHANSI GA**

E-TENDER No. 55022

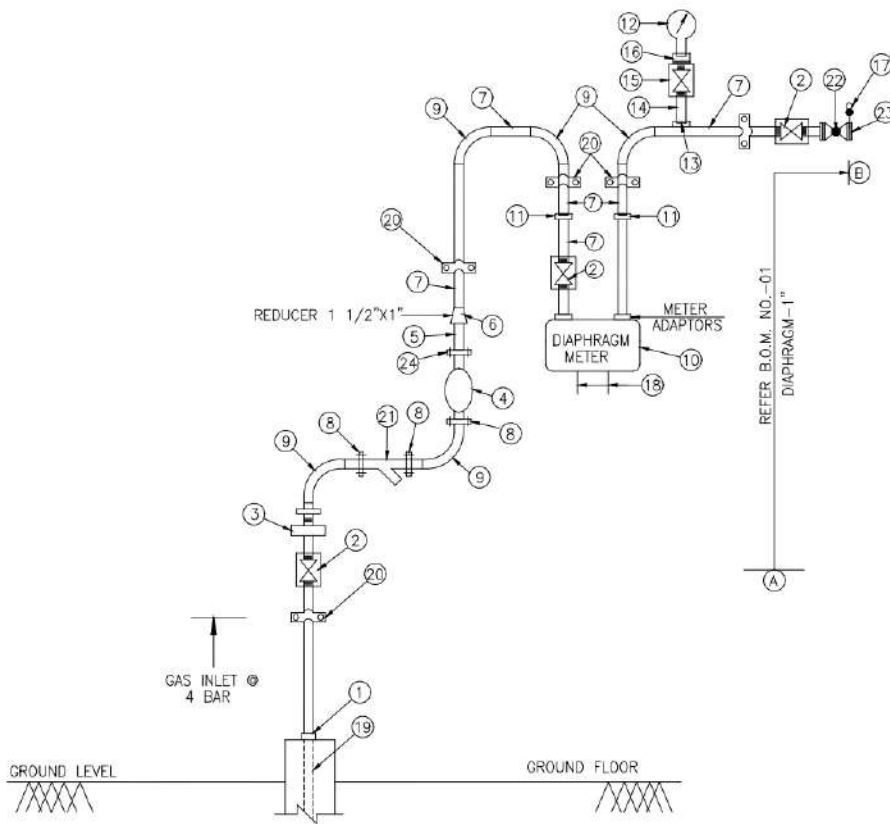
TENDER NO. CUGL/C&P/TEN2324/25

**Technical Volume
II of II_Part 2A of 2**

OPEN DOMESTIC COMPETITIVE BIDDING

BIDDING(THROUGH E-TENDERING MODE)


STANDARD DRAWINGS



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
 3. NPT THREADS SHALL CONFIRM TO ANSI B1.20.1
 4. WELDING OF PIPES & FITTINGS SHALL BE CARRIED OUT AS PER API 1104.
 5. ALL MATERIALS EXCEPT BELOW MENTIONED IS IN CONTRACTOR'S SCOPE.
 6. ANY ADDITIONAL ITEM REQUIRED FOR COMPLETION OF WORK SHALL BE CONTRACTOR'S RESPONSIBILITY WITHOUT ANY COST/TIME IMPLICATION.
 7. ANY ADDITIONAL SUPPORT/CLAMPS REQUIRED AT THE TIME OF INSTALLATION OF MRS SKID SHALL BE CONTRACTOR'S RESPONSIBILITY.
 8. GIVEN BOM IS INDICATIVE ONLY. INDICATE ITEM MAY VARY DURING ACTUAL CONSTRUCTION ON SITE.
 9. APART FROM FREE ISSUE MATERIAL BALANCE MATERIAL SHALL BE SUPPLIED BY CONTRACTOR.
 10. CONTRACTOR TO ENSURE PROVISION FOR LOCKING/SEALING ARRANGEMENT FOR METERS/WAYE TO AVOID WEASE.
 11. IN CASE OF SPACE CONSTRAINT, FLANGE END Y-TYPE STRAINER MAY BE INSTALLED VERTICALLY.

1. DESIGN MAY BE CUSTOMIZED/ MODIFIED AS PER AVAILABLE SPACE AT SITE.

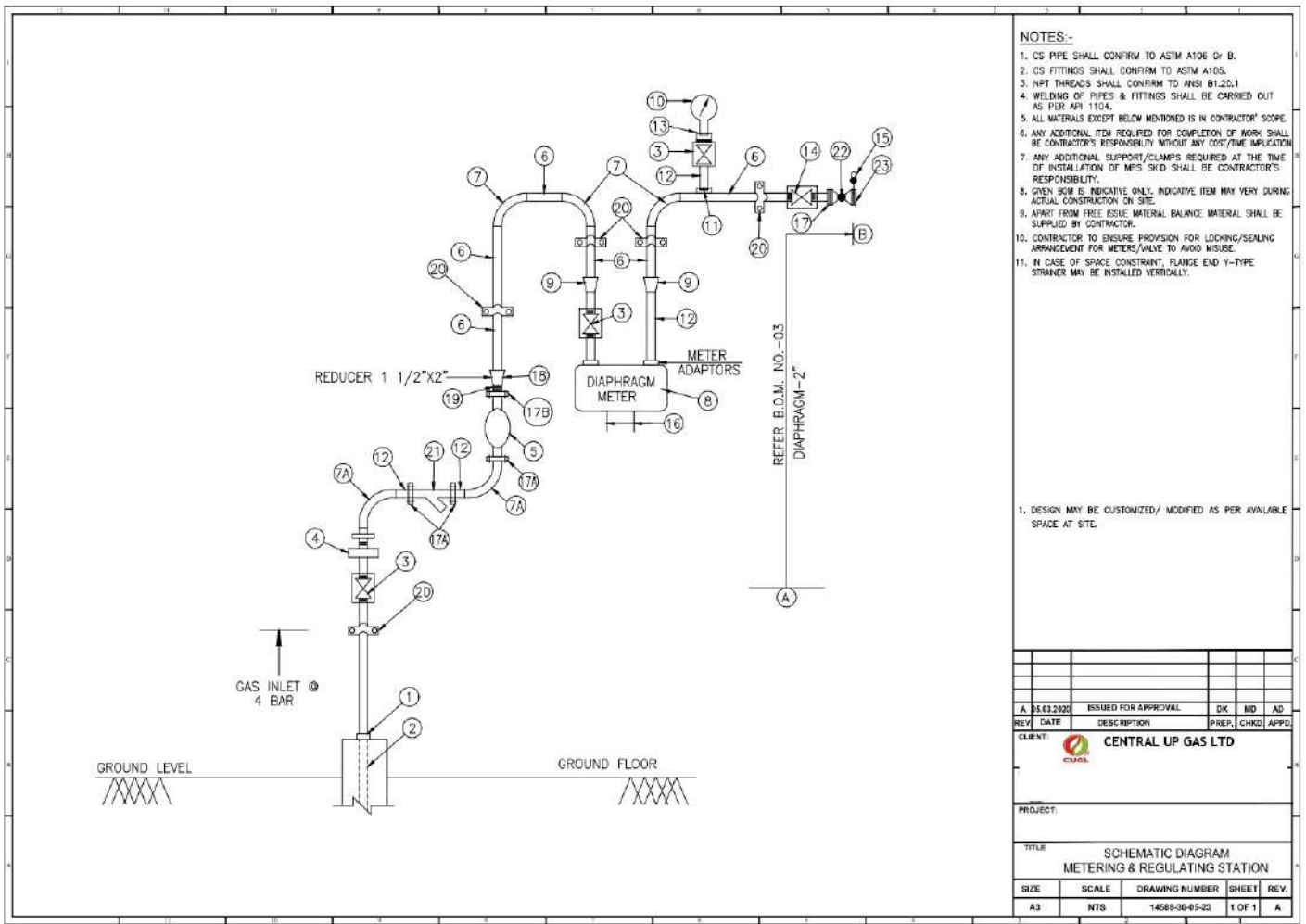
REV.	DATE	DESCRIPTION	PREP	CHKD	APPR
A	05.03.2020	ISSUED FOR APPROVAL	DK	WD	AD

C.ENT:  **CENTRAL UP GAS LTD**

PROJEC

TITLE: **SCHEMATIC DIAGRAM METERING & REGULATING STATION**


SIZE	SCALE	DRAWING NUMBER	SHEET	REV.
A3	NTS	14530-00-05-21	1 OF 1	A



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr. B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
 3. NPT THREADS SHALL CONFIRM TO ANSI B1.20.1
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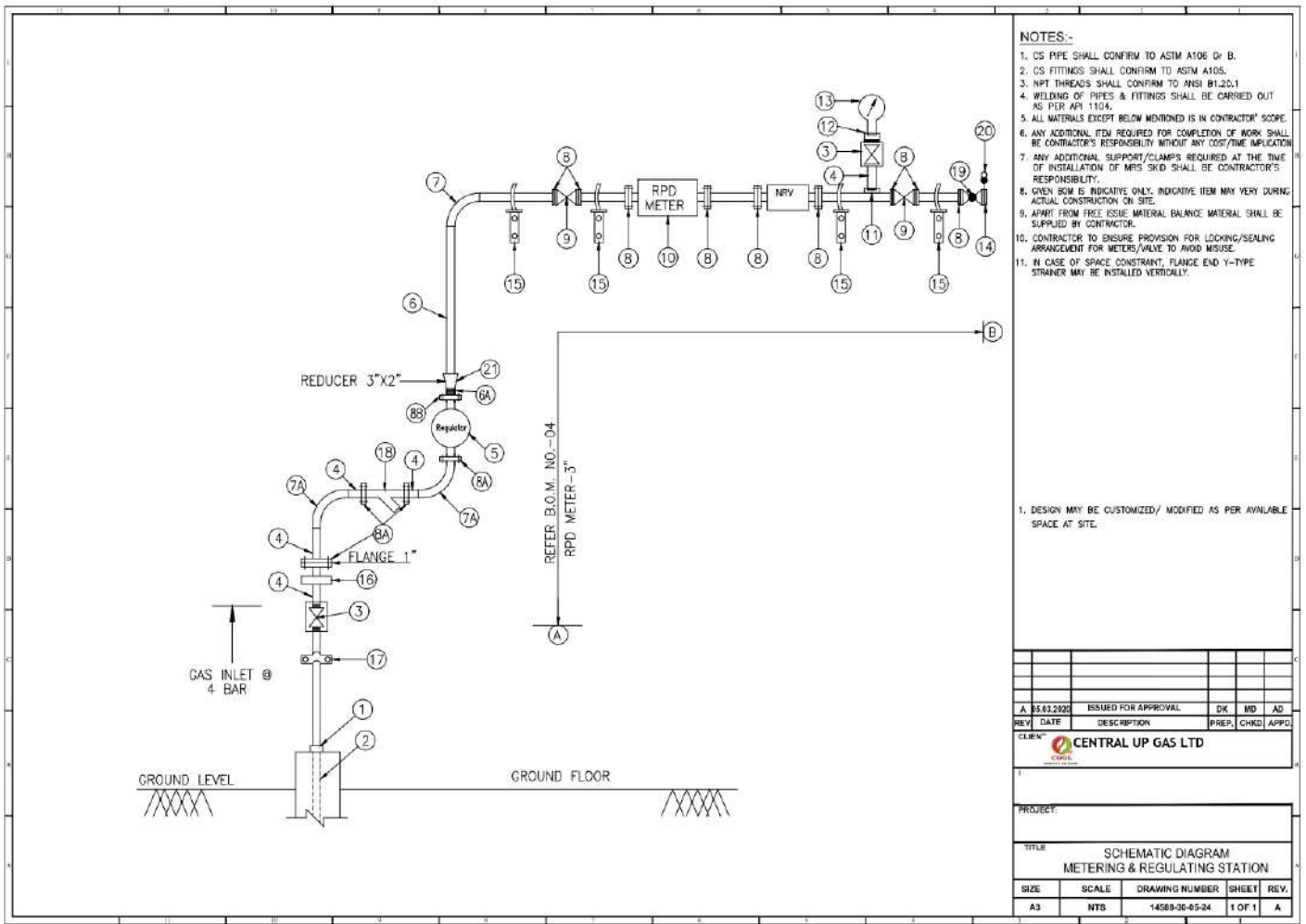
REV	DATE	DESCRIPTION	PREP.	CHKD	APPD.
A	05.03.2020	ISSUED FOR APPROVAL			

CLIENT:  **CENTRAL UP GAS LTD**

PROJECT:

TITLE: **SCHEMATIC DIAGRAM METERING & REGULATING STATION**

SIZE	SCALE	DRAWING NUMBER	SHEET	REV.
A3	NTS	14589-05-65-23	1 OF 1	A



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
 3. NPT THREADS SHALL CONFIRM TO ANSI B1.20.1
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 7. ANY ADDITIONAL SUPPORT/CLAMPS REQUIRED AT THE TIME OF INSTALLATION OF MRS SKID SHALL BE CONTRACTOR'S RESPONSIBILITY.
 8. GIVEN B.O.M IS INDICATIVE ONLY. INDICATIVE ITEM MAY VARY DURING ACTUAL CONSTRUCTION ON SITE.
 9. APART FROM FREE ISSUE MATERIAL BALANCE MATERIAL SHALL BE SUPPLIED BY CONTRACTOR.
 10. CONTRACTOR TO ENSURE PROVISION FOR LOCKING/SEALING ARRANGEMENT FOR METERS/VALVE TO AVOID MISUSE.
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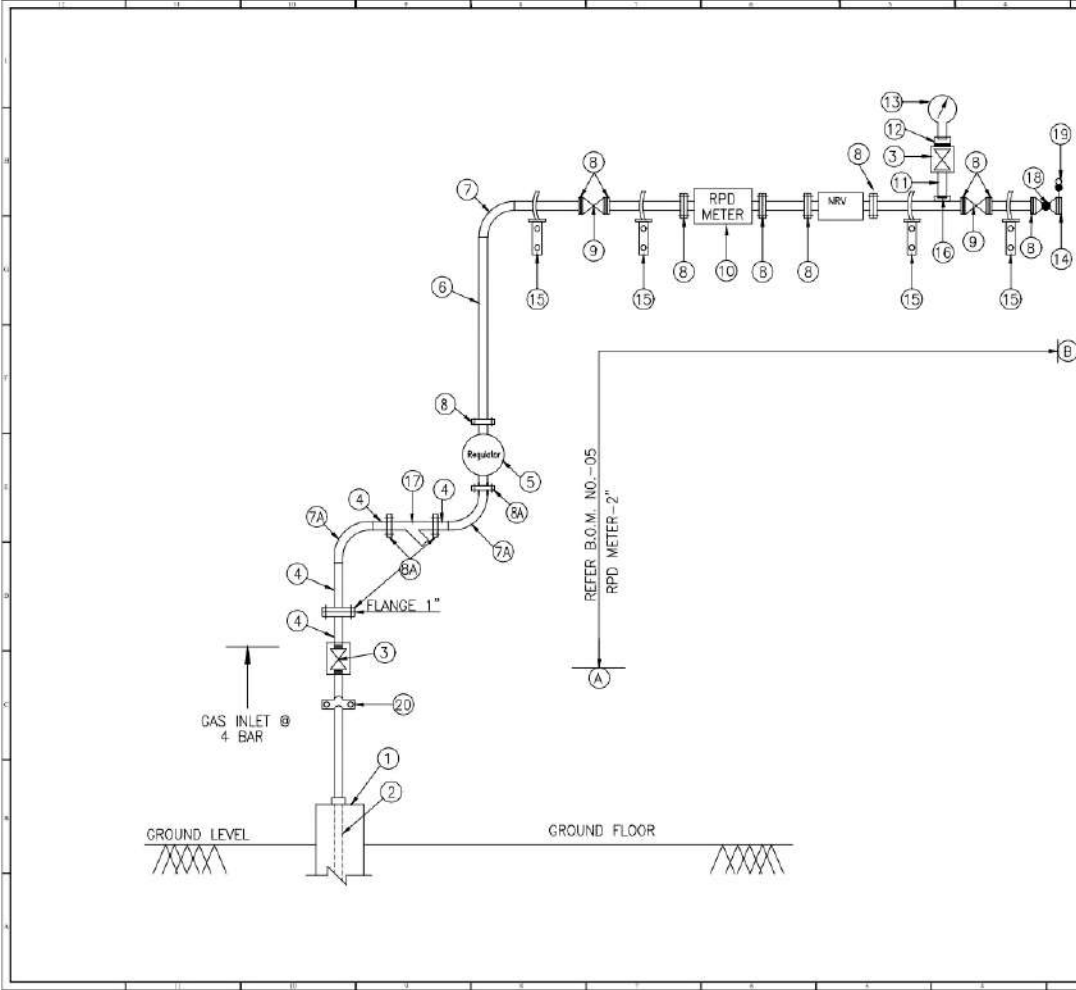
REV	DATE	DESCRIPTION	PREP.	CHKD	APPRD.
A	05.03.2020	ISSUED FOR APPROVAL	DK	MD	AD

CLIENT: **CENTRAL UP GAS LTD**

PROJECT:

TITLE: **SCHEMATIC DIAGRAM METERING & REGULATING STATION**

SIZE	SCALE	DRAWING NUMBER	SHEET	REV.
A3	NTS	14589-05-65-24	1 OF 1	A



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
 3. NPT THREADS SHALL CONFIRM TO ANSI B1.20.1
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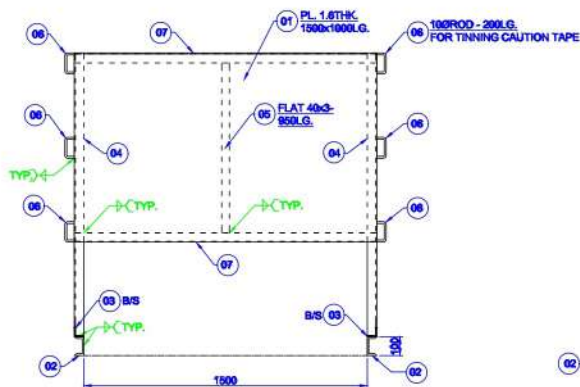
REV	DATE	DESCRIPTION	PREP.	CHKD.	APPD.
A	05.03.2020	ISSUED FOR APPROVAL			

CLIENT: **CENTRAL UP GAS LTD**

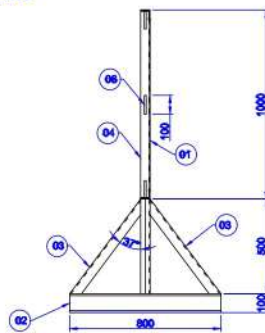
PROJECT:

TITLE: **SCHEMATIC DIAGRAM
METERING & REGULATING STATION**

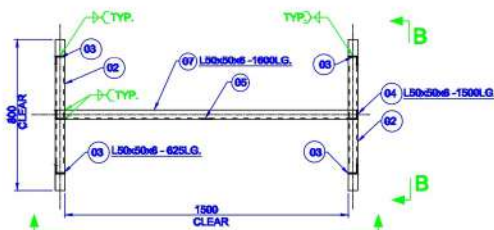
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A3	NTB	14569-06-65-25	1 OF 1	A



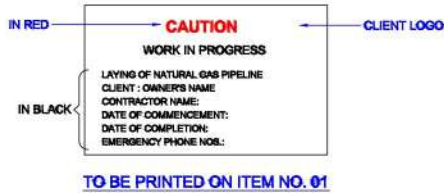
ELEVATION A-A



ELEVATION B-B



PLAN VIEW



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWINGS.

BILL OF MATERIAL

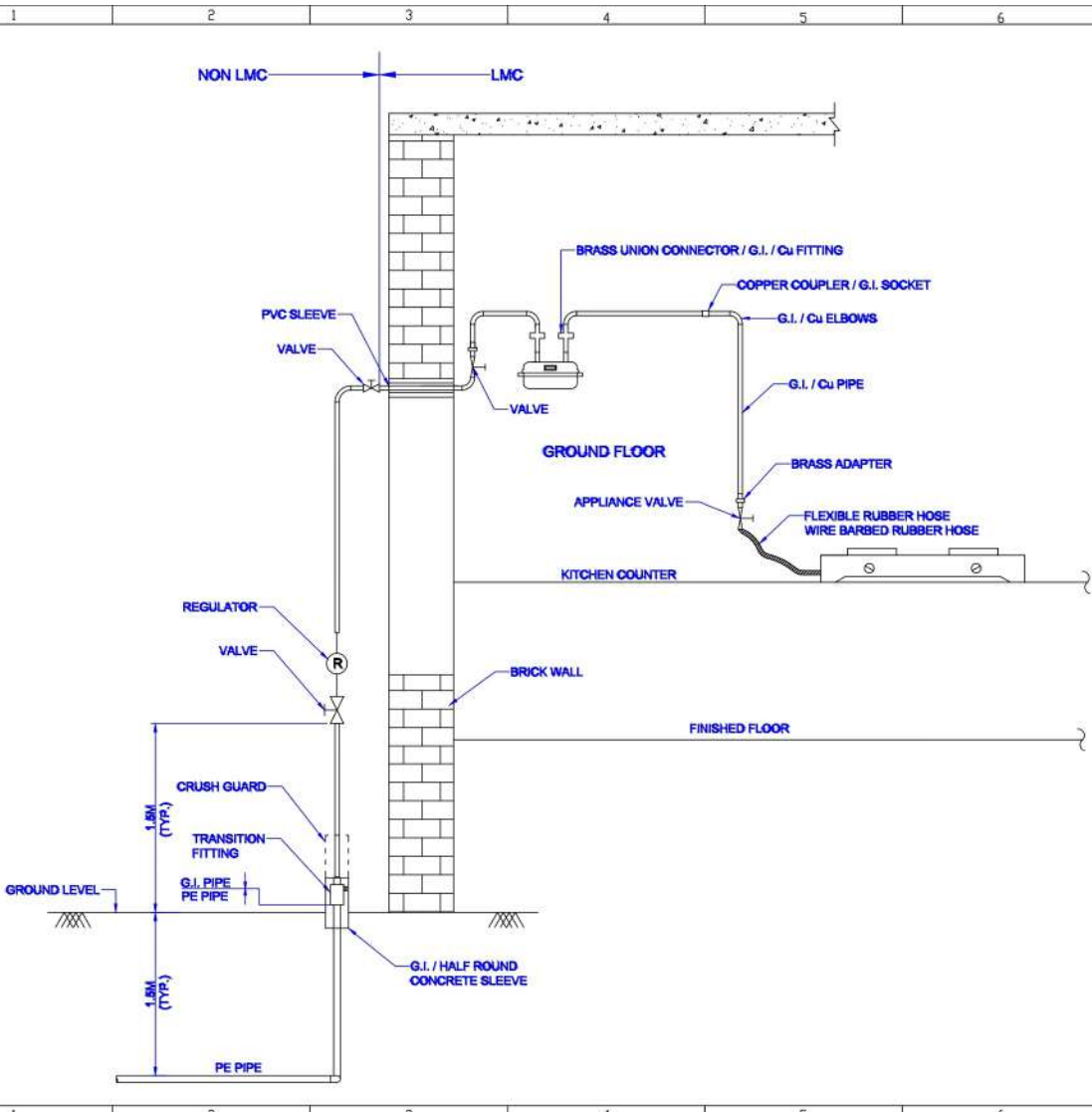
Item No.	Section	Width	Length	Item Qty.	Weight (Kg./MTR)	Total Weight in Kgs.
1.	PL 1.6 THK	1500	1000	1	12.58	20.10
2.	ISMC 100	-	800	2	9.20	14.72
3.	L50x50x6	-	625	4	4.50	11.25
4.	L50x50x6	-	1500	2	4.50	13.50
5.	Flat 3Thk.	900	40	1	0.94	0.63
6.	100 Rod	-	200	6	0.62	0.74
7.	L50x50x6	-	1600	2	4.50	14.40
Grand Total (Kg)						74.74

OWNER : CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : CAUTION BOARD

SCALE: 1:10
 DRG. NO. C211036-10-03-32 REV-0



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
4. TENTATIVE RISER LENGTH (FROM OUTLET OF TRANSITION FITTING TO INLET OF ISOLATION VALVE) SHALL BE 1.5M. ANY CHANGES IN RISER LENGTH SHALL BE AFTER APPROVAL FROM EIC.
5. G.I. INSTALLATION / METER INSTALLATION SHALL BE DECIDED BY OWNER / OWNER'S REPRESENTATIVE AS PER SITE CONDITIONS.
6. IF COPPER PIPE GOES TO THE APPLIANCE VALVE THEN BRASS FITTING SHALL BE USED AT THE OUTLET OF METER OR IF G.I. PIPE GOES TO THE APPLIANCE VALVE THEN G.I. FITTING SHALL BE USED AT THE OUTLET OF THE METER.
7. MAXIMUM DISTANCE BETWEEN CLAMPS SHALL BE 1.5M WHEN PIPE GOES IN THE STRAIGHT LENGTH. IF ANY TEE OR ANY FITTING IS USED IN BETWEEN THE PIPE THEN CLAMP SHALL BE PLACED 150 MM AWAY FROM CENTER LINE OF THE FITTING AT EVERY SIDE. HOWEVER, THE SAME MAY BE CHANGED AS PER SITE CONDITIONS / AS DIRECTED BY EIC.
8. TAPPING SHALL BE LEFT NEAR OUTSIDE THE KITCHEN AS DIRECTED BY OWNER / OWNER'S REPRESENTATIVE.

**THIS IS THE GENERAL LAYOUT.
FOR LMC AND NON-LMC**

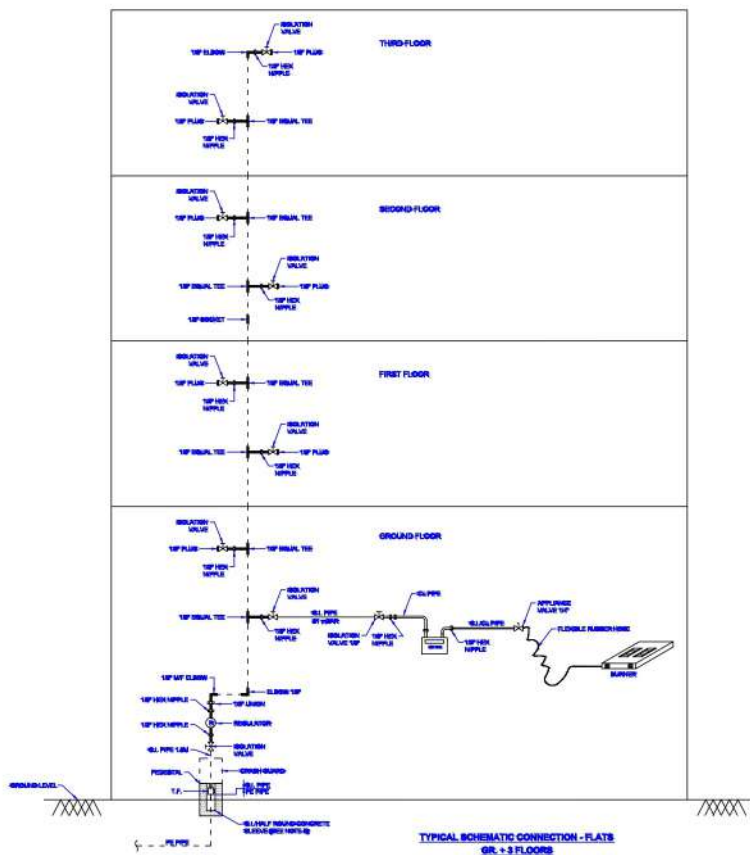
OWNER : CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION (NON LMC & LMC)

SCALE	DATE	DRAWN BY	CAD	A3
1:10				

DRG. NO. C211036-20-05-01 REV-0



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
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8. METER CLAMP SHALL BE APPROVED FROM OWNER / OWNER'S REPRESENTATIVE.

OWNER :
 CENTRAL UP GAS LIMITED

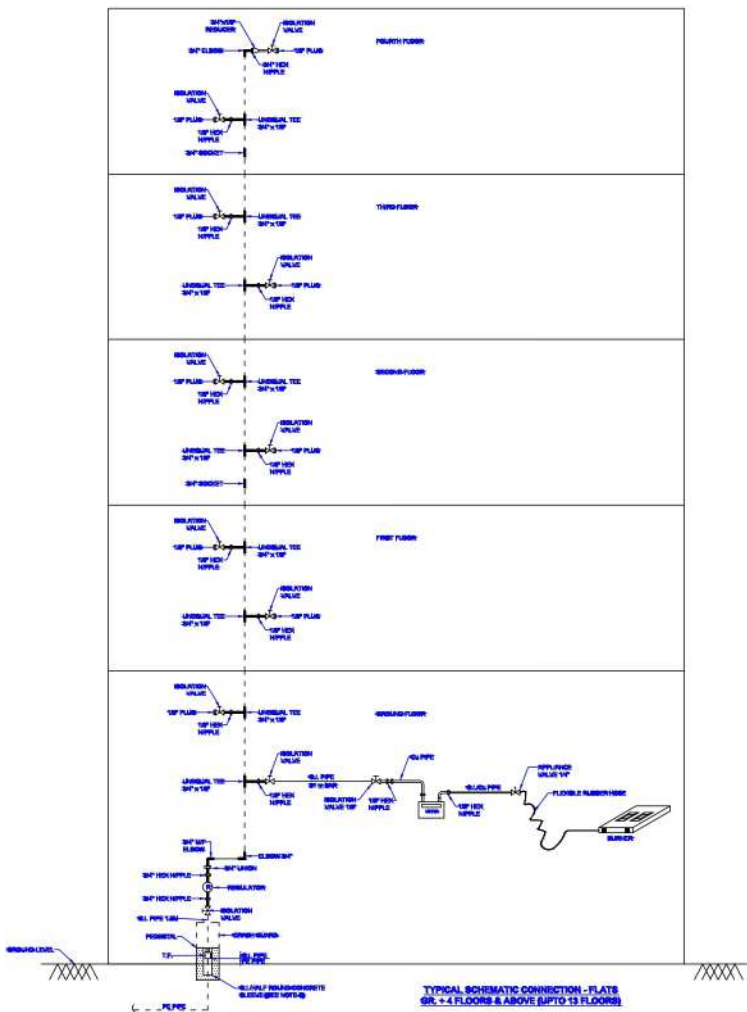
PROJECT :
GI/COPPER INSTALLATION WORKS

TITLE :
TYPICAL SCHEMATIC CONNECTION - FLATS
GR. +3 FLOORS

SCALE :
1:10

DRG. NO. :
C211036-20-05-02 REV-0

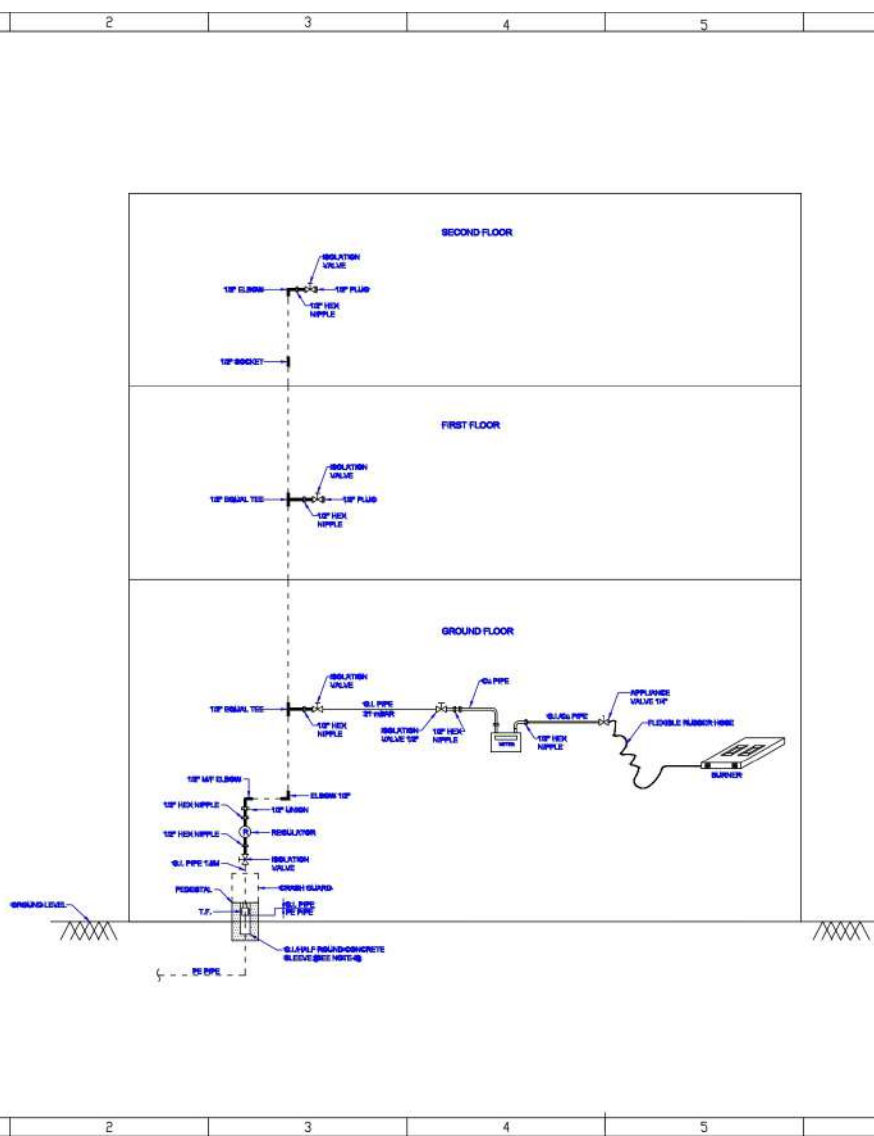
CAD A3




TYPICAL SCHEMATIC CONNECTION - FLATS
GR. + 4 FLOORS & ABOVE (UPTO 13 FLOORS)

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
 3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
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 8. METER CLAMP SHALL BE APPROVED FROM OWNER / OWNER'S REPRESENTATIVE.

OWNER :		CENTRAL UP GAS LIMITED	
PROJECT :		GI/COPPER INSTALLATION WORKS	
TITLE :		TYPICAL SCHEMATIC CONNECTION - FLATS GR. + 4 FLOORS & ABOVE (UPTO 13 FLOORS)	
SCALE	DATE	DRAWN BY	CAD A3
DRG. NO.	C211036-20-05-03 REV-0		



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
 3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
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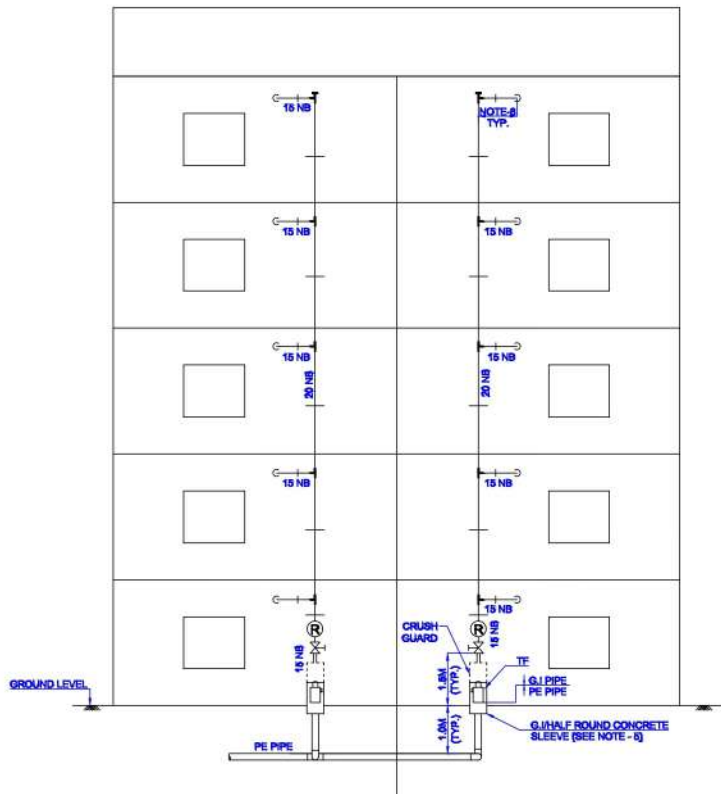
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL SCHEMATIC CONNECTION - KOTHI

SCALE : DATE : SHEET NO. : CAD A3

DRG. NO. C211036-20-05-04 REV-0



**INDICATIVE RISER ARRANGEMENT IN GR-4 & ABOVE BUILDING
(METER INSTALLED INSIDE THE KITCHEN)**

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
4. TENTATIVE RISER LENGTH (FROM OUTLET OF TRANSITION FITTING TO INLET OF ISOLATION VALVE) SHALL BE 1.5M. ANY CHANGES IN RISER LENGTH SHALL BE AFTER APPROVAL FROM EIC.
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8. TAPPING SHALL BE LEFT NEAR OUTSIDE THE KITCHEN AS DIRECTED BY OWNER / OWNER'S REPRESENTATIVE.
9. FROM TRANSITION FITTING TO THE ISOLATION VALVE, SHALL BE CONSIDERED IN THE OUTSIDE KITCHEN PIPING.

**THIS IS THE GENERAL LAYOUT.
FOR LMC AND NON-LMC**

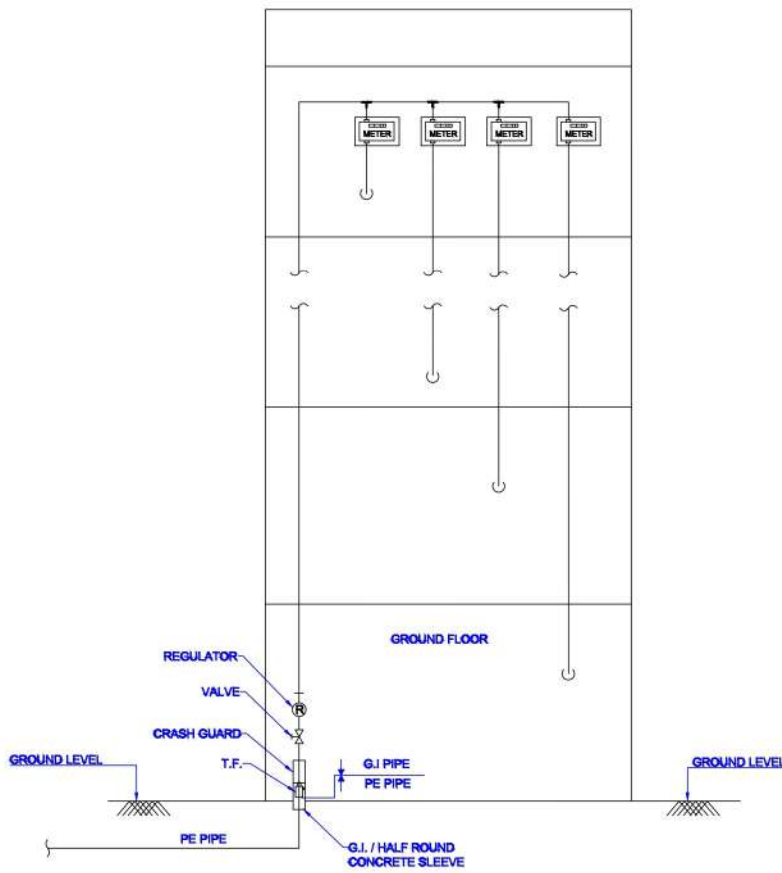
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SHEET NO.	CAD	A3

DRG. NO. C211036-20-05-06 REV-0



**INDICATIVE RISER ARRANGEMENT IN BUILDING,
IF METER IS INSTALLED AT TOP OF FLOOR**

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
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8. TAPPING SHALL BE LEFT NEAR OUTSIDE THE KITCHEN AS DIRECTED BY OWNER / OWNER'S REPRESENTATIVE.
9. FROM TRANSITION FITTING TO THE ISOLATION VALVE, SHALL BE CONSIDERED IN THE OUTSIDE KITCHEN PIPING.
10. AT THE TIME OF MEASURING LENGTH OF G.I./COPPER PIPE, G.I./COPPER FITTINGS SHALL BE COUNTED IN THE PIPE LENGTH.

THIS IS THE GENERAL LAYOUT.

OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SHEET NO.	CAD	A3

DRG. NO. C211036-20-05-07 REV-0