



**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**

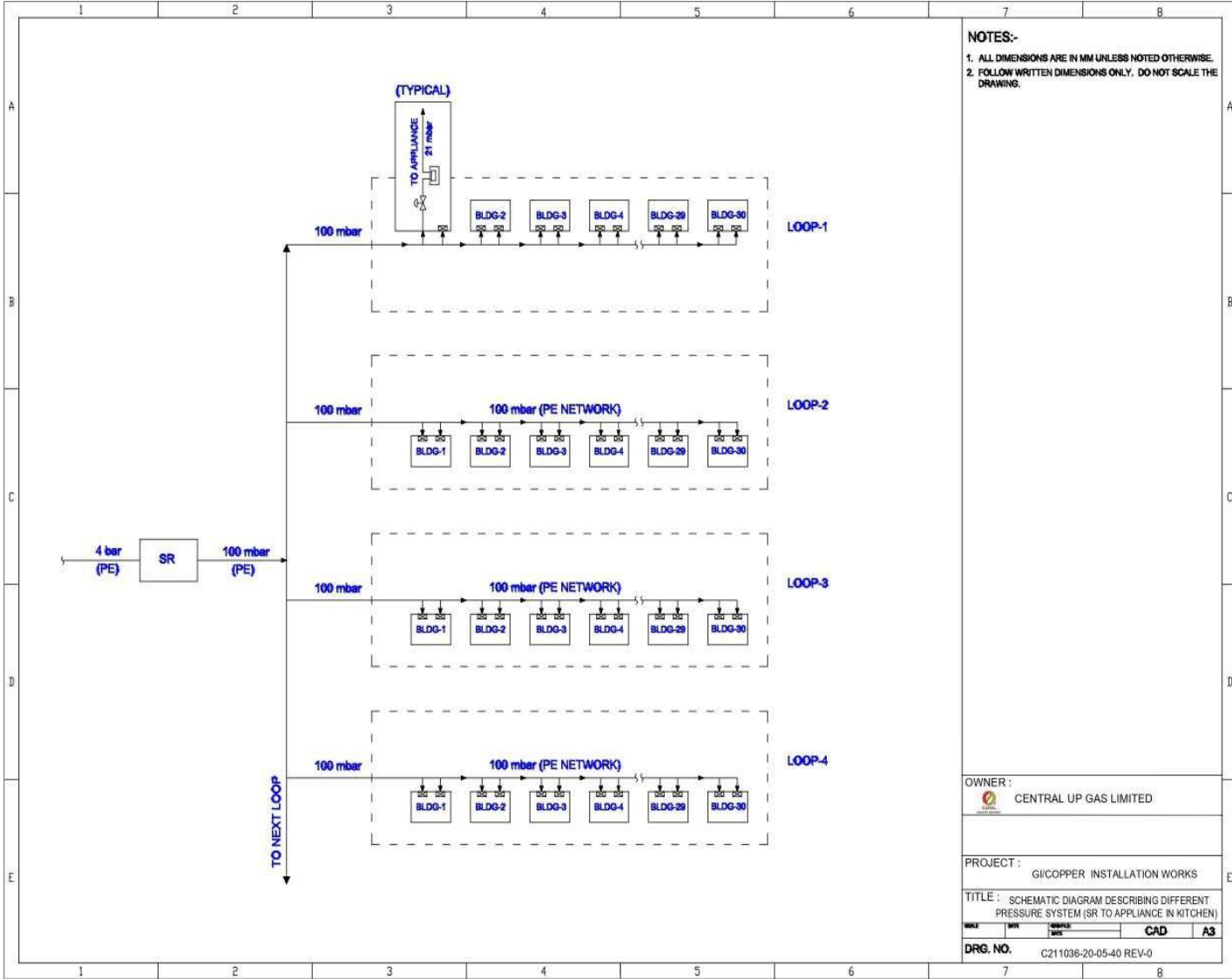
THROUGH E-TENDERING MODE

TENDER NO. CUGL/C&P/TEN2324/67


**Technical Volume
II of II_Part 2B of 2**

OPEN DOMESTIC COMPETITIVE BIDDING

BIDDING(THROUGH E-TENDERING MODE)



NOTES:-
 1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.

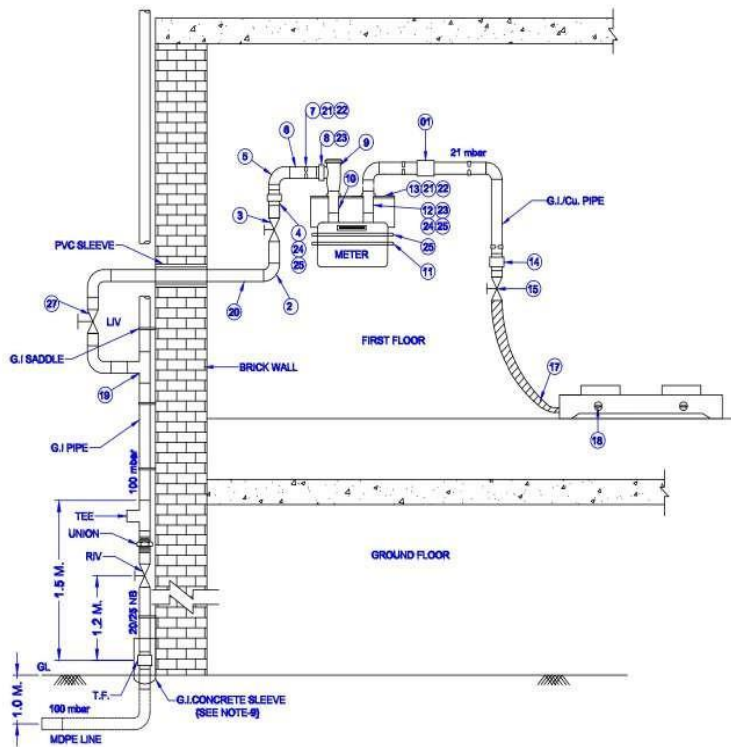
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

TITLE :
 SCHEMATIC DIAGRAM DESCRIBING DIFFERENT PRESSURE SYSTEM (SR TO APPLIANCE IN KITCHEN)

SCALE	DATE	DESIGNED	CAD	A3
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DRG. NO. C211038-20-05-40 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 1.8M. 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 1.8M 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 OF THE KITCHEN AS DIRECTED BY OWNER / OWNER'S REPRESENTATIVE.
9. G.I. CONCRETE SLEEVE INSTALLATION SHALL BE DECIDED BY OWNER / OWNER'S REPRESENTATIVE AS PER SITE CONDITIONS.
10. REGULATOR TO BE FIXED NEAR THE METER AS PER INSTRUMENT AS PER INSTRUCTION OF EIC.

BILL OF MATERIAL			
SRL. NO.	MATERIAL DESCRIPTION	QTY.	REMARK
1.	COPPER COUPLER	01	
2.	90 DEG. ELBOW G.I. @ 1/2" x 1/2" END	01	
3.	METER CONTROL VALVE @ 1/2"	01	
4.	BRASS DISCONNECTING UNION @ 1/2" x 1/2"	01	
5.	G.I. ELBOW @ 1/2"	01	
6.	G.I. CU. TUBING @ 1/2"	3m	INDICATIVE
7.	PVC CLIP	06	
8.	BRASS DISCONNECTING UNION @ 1/2" x 1/2"	01	
9.	METER REGULATOR	01	
10.	METER INLET UNION @ 1/2" x 1/2"	01	
11.	1/2" GAS METER @ 1/2"	01	
12.	METER OUTLET UNION @ 1/2" x 1/2"	01	
13.	METER BRACKET	01	
14.	BRASS ADAPTER @ 1/2" x 1/2"	01	
15.	APPLIANCE VALVE WITH NOZZLE @ 1/2"	01	
16.	GAS STOP	01	
17.	STEEL REINFORCED RUBBER HOSE	1m	TYPICAL
18.	NOZZLE KIT	01	
19.	COPPER EQUAL TEE	01	OPTIONAL
20.	20mm CO. PVC PIPE AS PER IS - 4848	01	
21.	ROSKOP FLUX	01	
22.	WOOD SCREW	01	
23.	TERLON TAPE	4m	INDICATIVE
24.	SOLDER WIRE	25gms	
25.	FLUX	15gms	
26.	METER CLAMP	01	
27.	LATERAL VALVE	01	

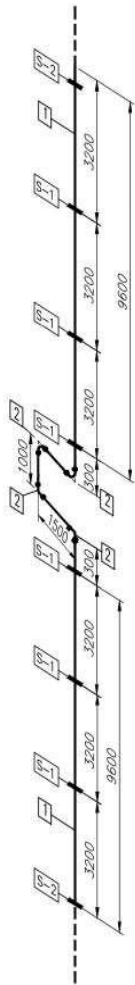
THIS IS THE GENERAL LAYOUT.

OWNER : CENTRAL UP GAS LIMITED

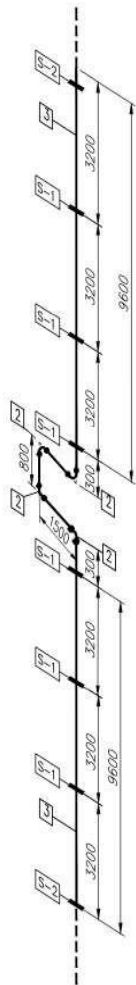
PROJECT : GICOPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE : 1:100
DATE :
CAD : A3
DRG. NO. : C211036-20-05-07 REV-0

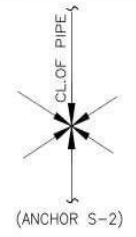
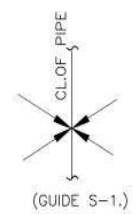


OPTION-A
(LOOP SIZE-1500X1000)



OPTION-B
(LOOP SIZE-1500X800)

SUPPORT SYMBOLS




BILL OF MATERIAL

S.NO.	SIZE (NB)	DESCRIPTION	QTY.	UNIT	CODE
1	50	GI PIPE -IS-1239 PART-1	20.8	M	
2	50	ELBOW 90°	04	Nos.	
3	50	GI PIPE -IS-1239 PART-1	20.6	M	

NOTES:-

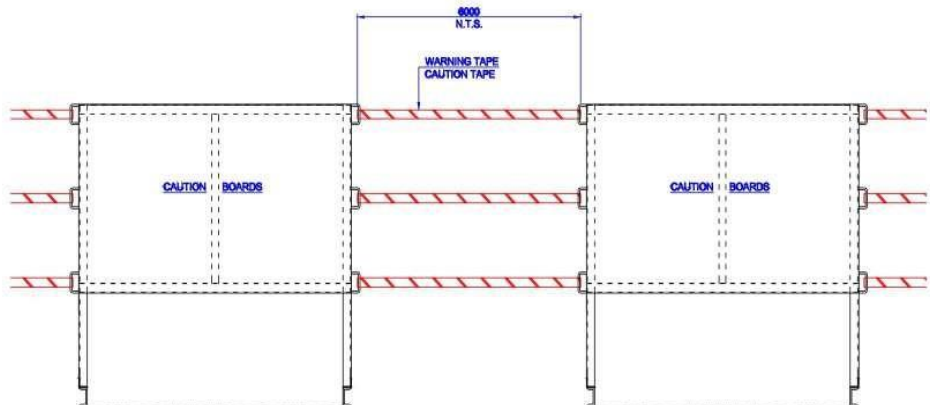
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

OWNER:  CENTRAL UP GAS LIMITED

PROJECT: GI/COPPER INSTALLATION WORKS

TITLE: **EXPANSION LOOP FOR RISER**
IN HIGH RISE BUILDING

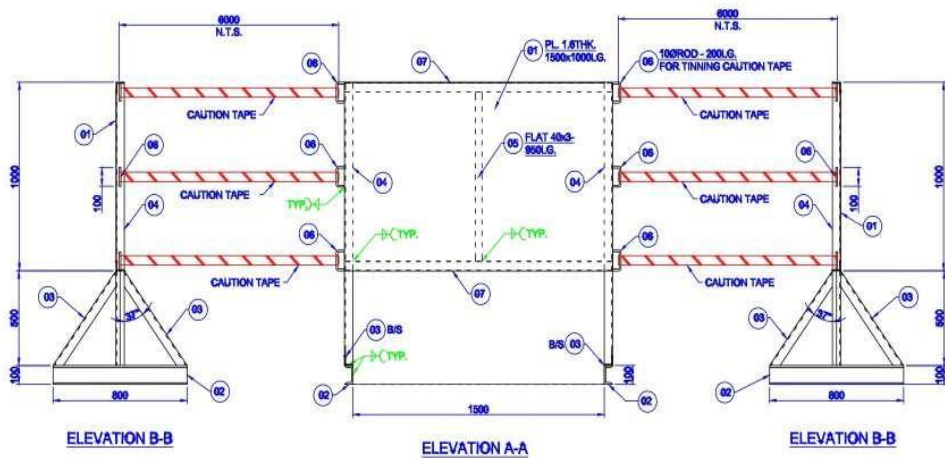
DATE: 04-07-2014
BY: [Signature] CAD A3
DRG. No. 1007-20-03-43 REV-0



SCHEMATIC LAYOUT OF CAUTION BOARDS AND BARRICADING

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

OWNER :		CENTRAL UP GAS LIMITED	
PROJECT :		GU/COPPER INSTALLATION WORKS	
TITLE :		BARRICADING	
SCALE :	1:10	DATE :	
DRG. NO.	C211036-10-03-26 REV-0	CAD	A3



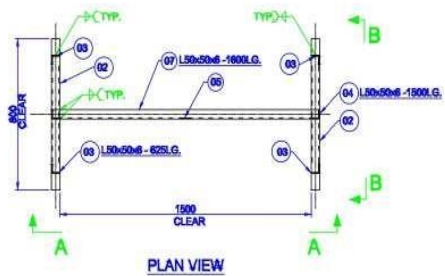
IN RED → **CAUTION** ← CLIENT LOGO

WORK IN PROGRESS

LAYING OF NATURAL GAS PIPELINE
 CLIENT - OWNER'S NAME
 CONTRACTOR NAME
 DATE OF COMMENCEMENT
 DATE OF COMPLETION
 EMERGENCY PHONE NOB.:

IN BLACK

TO BE PRINTED ON ITEM NO. 01



NOTES:-

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

BILL OF MATERIAL						
Item Mtd.	Section	Width	Length	Item Qty.	Weight	
					(All Metals)	Total Weight
					Kgs./Mtr	In Kgs.
1.	PL. 1.6 THK.	1600	1000	1	12.50	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 (Kgs)						74.74

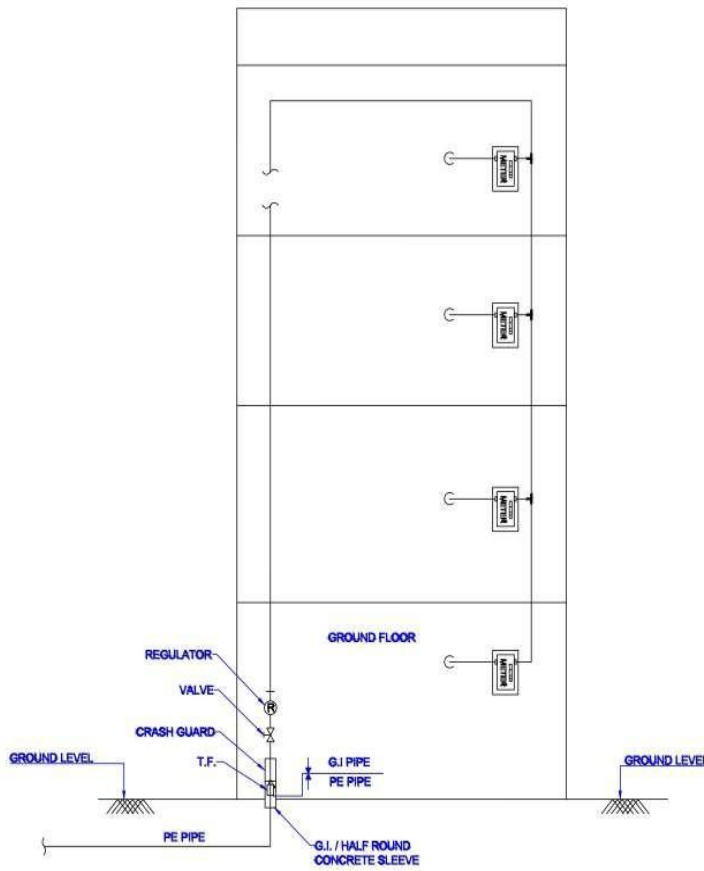
OWNER: CENTRAL UP GAS LIMITED

PROJECT: GI/COPPER INSTALLATION WORKS

TITLE: CAUTION BOARD & TAPE ARRANGEMENT IN G.I./RISER INSTALLATION

SCALE: 1/8" = 1'-0" DWG: CAD

DRG. NO. C211036-10-03-26 REV-0



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

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
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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.
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.

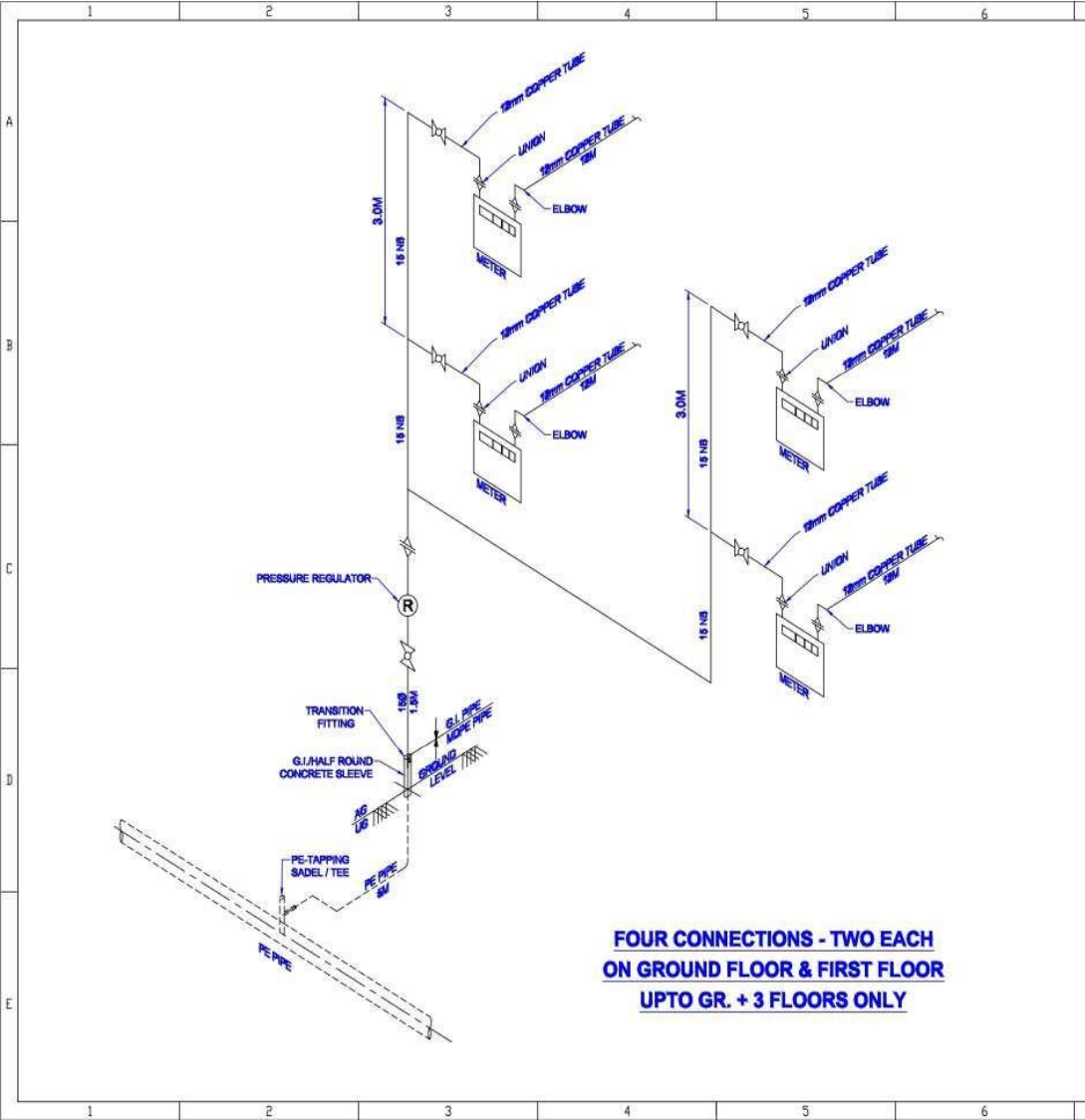
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : G.I./COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE : DATE : ISSUED : DRAWN : CAD : A3

DRG. NO. C211036-20-05-08 REV-0

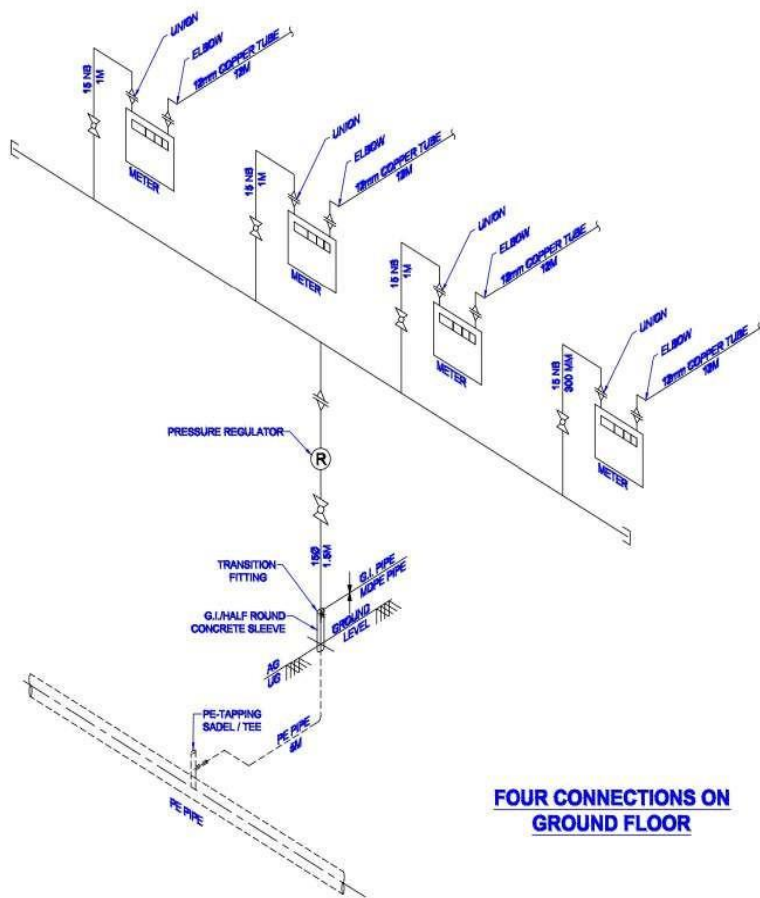


**FOUR CONNECTIONS - TWO EACH
ON GROUND FLOOR & FIRST FLOOR
UPTO GR. + 3 FLOORS ONLY**

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

OWNER :		CENTRAL UP GAS LIMITED	
PROJECT :		G.I/COPPER INSTALLATION WORKS	
TITLE :		TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION	
SCALE :	DATE :	DESIGNED BY :	CAD / A3
DRG. NO. :	C211036-20-05-10 REV-0		



NOTES:-

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FOR LMC AND NON-LMC

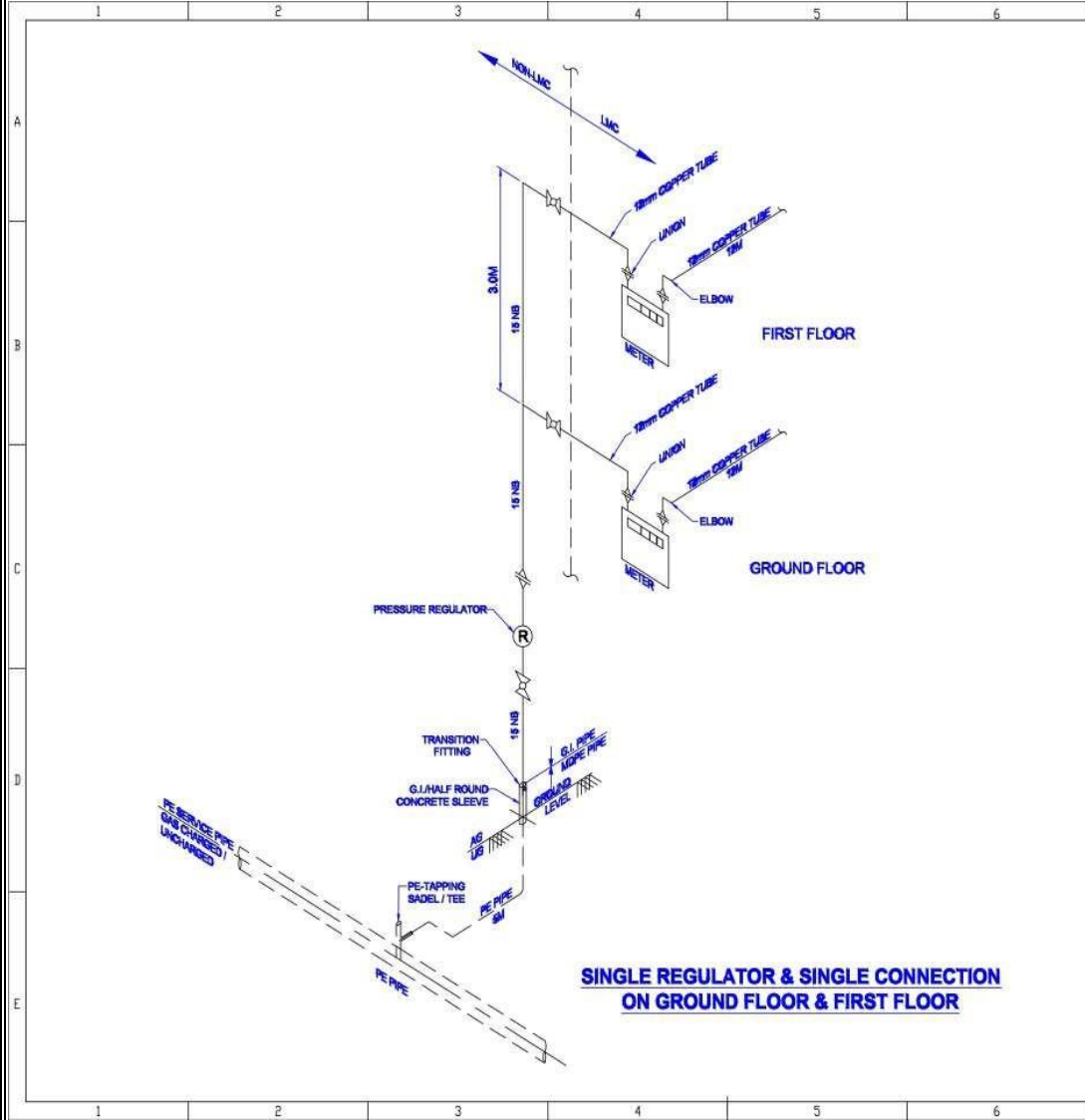
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
G/COPPER INSTALLATION WORKS

TITLE :
TYPICAL DOMESTIC CONNECTION
LAYOUT OF NG DISTRIBUTION


SCALE	DATE	ISSUED	BY	CAD	A3
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DRG. NO. C211036-20-05-11 REV-0



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
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FOR LMC AND NON-LMC**

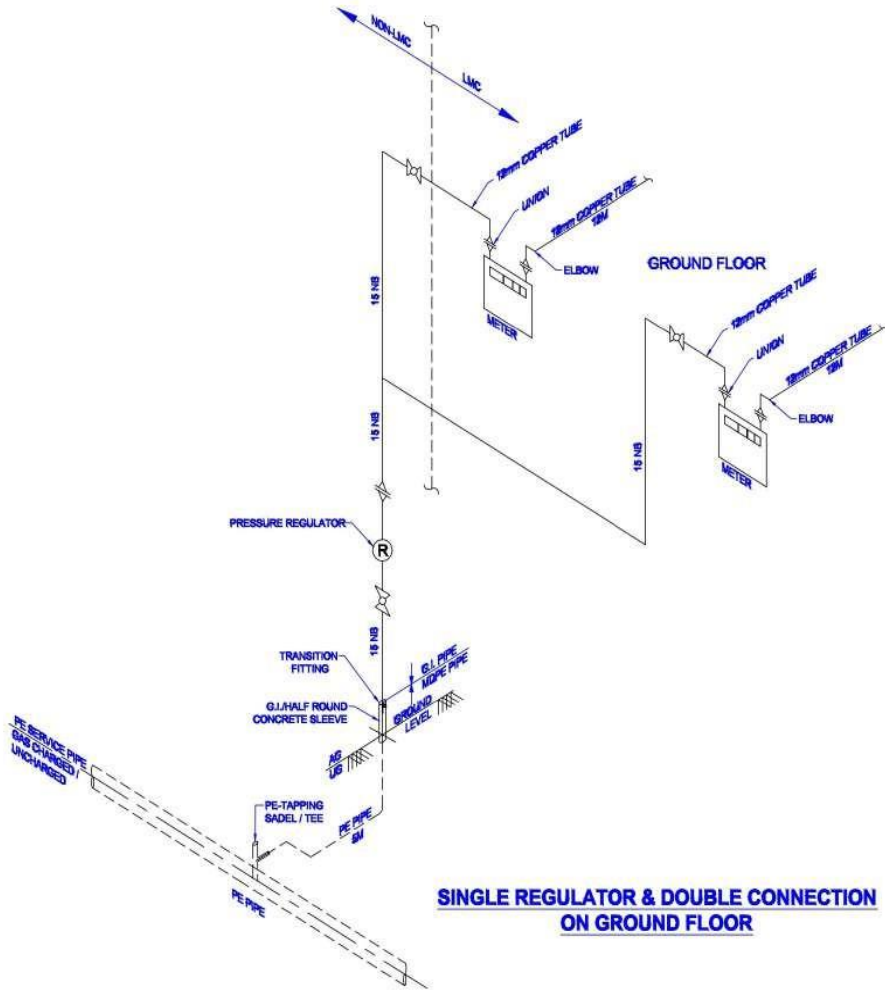
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GICOPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG FOR FLAT

SCALE	DATE	DESIGNER	CAD	A3
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DRG. NO. C211036-20-05-12 REV-0



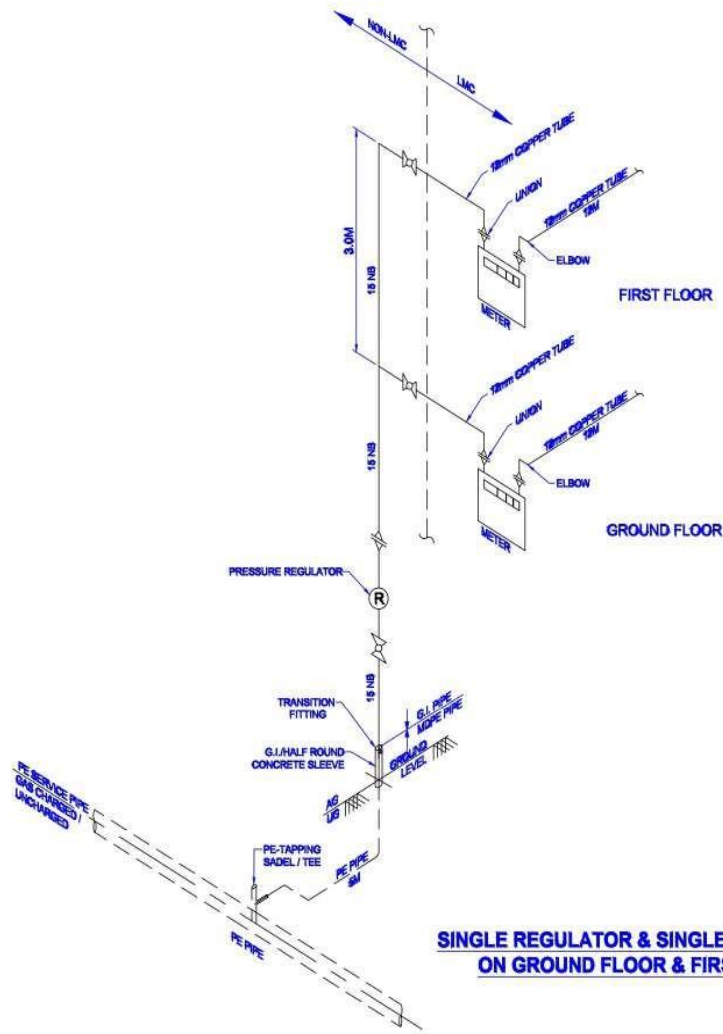
**SINGLE REGULATOR & DOUBLE CONNECTION
ON GROUND FLOOR**

NOTES:-

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

OWNER :		CENTRAL UP GAS LIMITED	
PROJECT :		G/COPPER INSTALLATION WORKS	
TITLE :		TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION	
SCALE :	DATE :	DRG. NO. :	CAD A3
DRG. NO. :		C211036-20-05-13 REV-0	



**SINGLE REGULATOR & SINGLE CONNECTION
ON GROUND FLOOR & FIRST FLOOR**

NOTES:-

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FOR LMC AND NON-LMC**

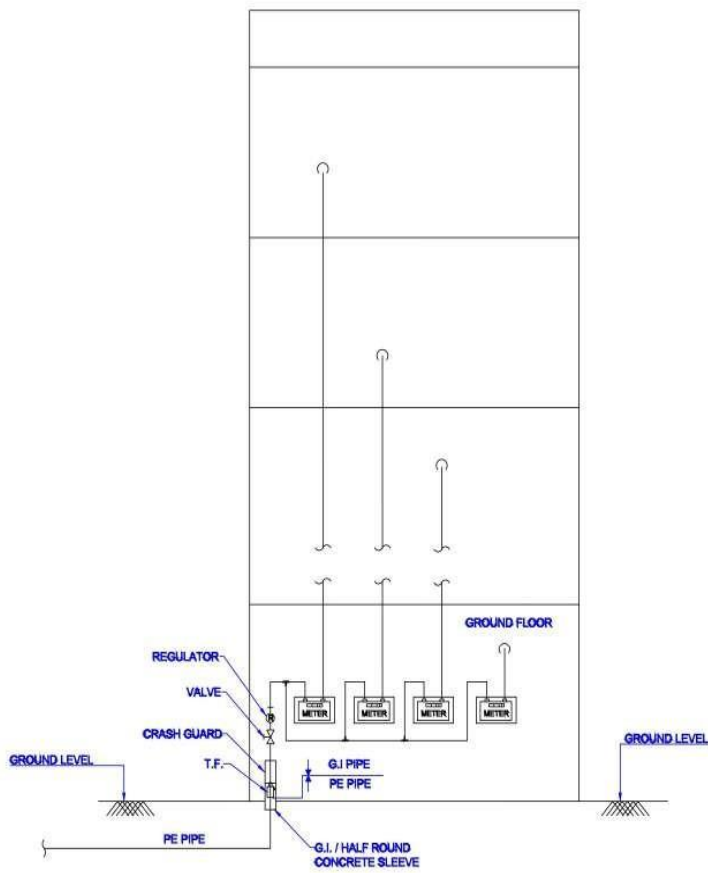
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
G/COPPER INSTALLATION WORKS

TITLE :
TYPICAL DOMESTIC CONNECTION
LAYOUT OF NG KOTHI

SCALE	DATE	ISSUED	BY	CAD	A3
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DRG. NO. C211036-20-05-14 REV-0



**INDICATIVE RISER ARRANGEMENT IN BUILDING,
IF METER INSTALLED AT GROUND FLOOR**

NOTES:-

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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.
FOR LMC AND NON-LMC**

OWNER :
 CENTRAL UP GAS LIMITED

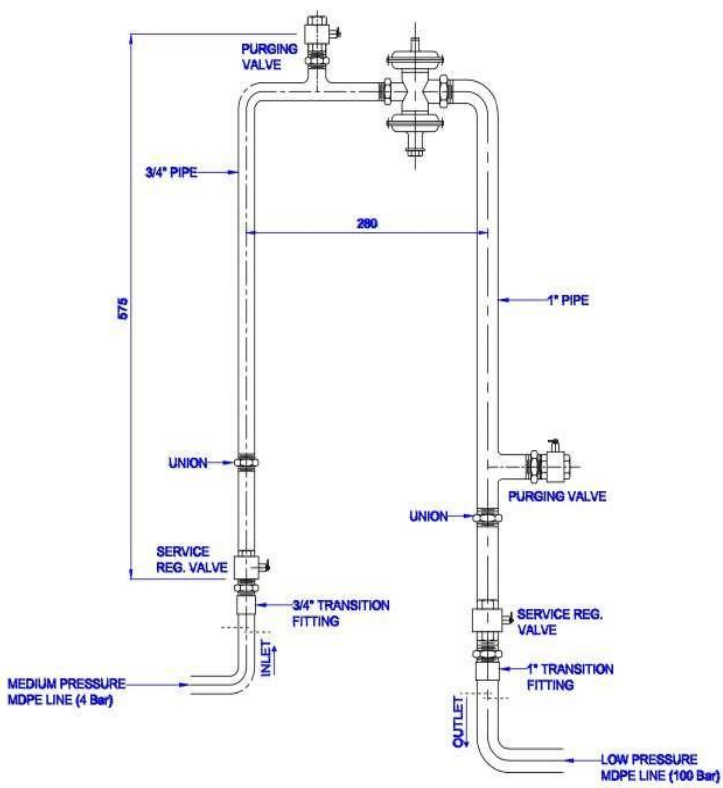
PROJECT : G.I./COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION
LAYOUT OF NG DISTRIBUTION

SCALE : DATE : SOURCE : DRAWN : CAD : A3

DRG. NO. C211036-20-05-15 REV-0

1 2 3 4 5 6 7 8



NOTES:-
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
2. FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE THE DRAWING.

A
B
C
D

OWNER :		CENTRAL UP GAS LIMITED	
PROJECT :		GI/COPPER INSTALLATION WORKS	
TITLE :		SCHEMATIC DIAGRAM FOR SINGLE STREAM REGULATOR	
SCALE	DATE	DESIGN	JOB
		CAD	A3
DRG. NO.	C211036-20-05-37 REV-0		

1 2 3 4 5 6 7 8