



**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**

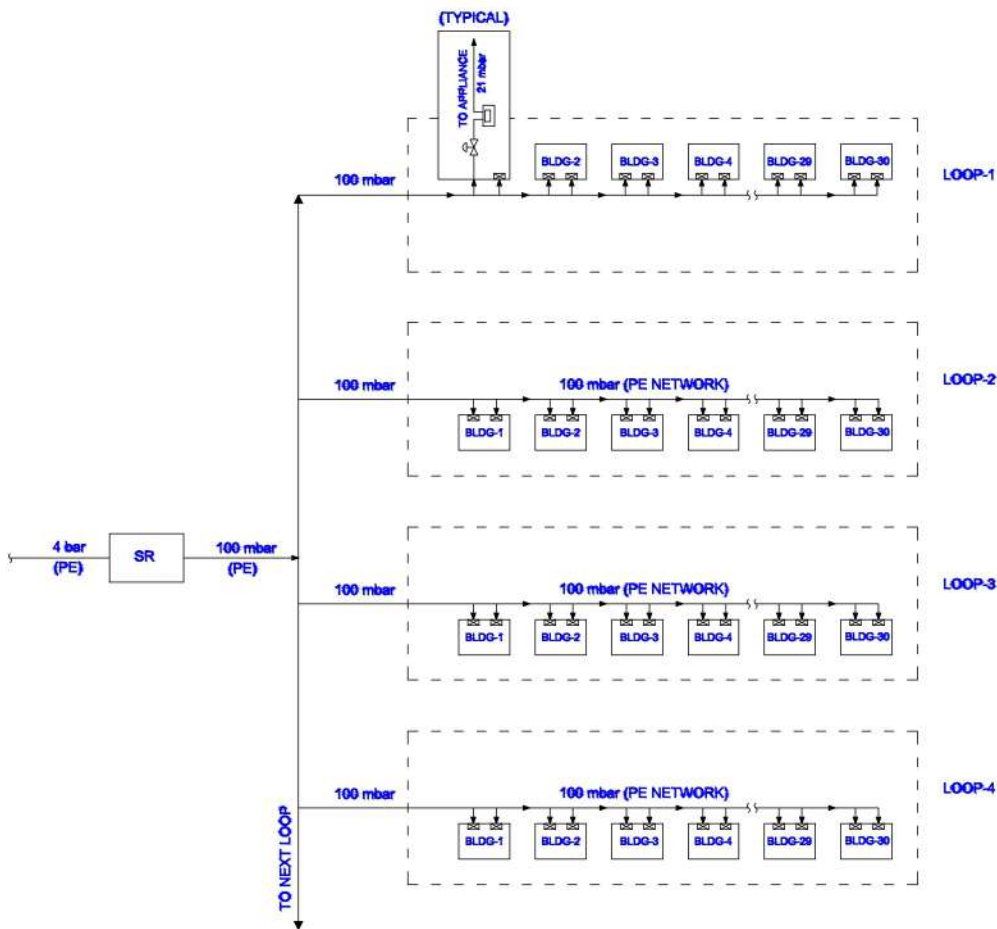
E-TENDER No. 55022

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

**Technical Volume
II of II_Part 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

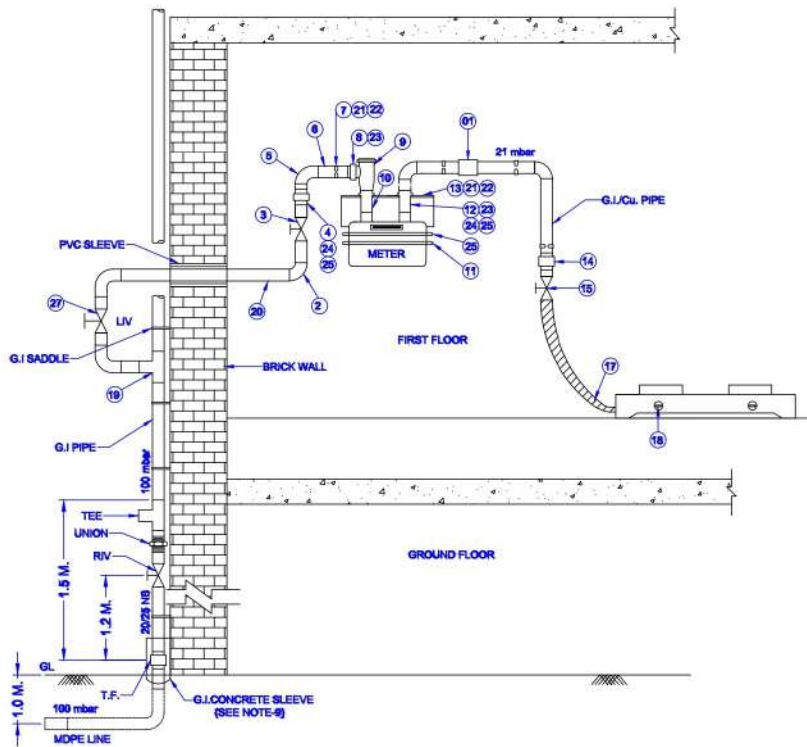
PROJECT : GI/COPPER INSTALLATION WORKS

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

SCALE :

SCALE	DATE	SHEET NO.	CAD	A3
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DRG. NO. C211036-20-05-40 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 / OWNERS 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 / OWNERS REPRESENTATIVE.
9. G.I. CONCRETE SLEEVE INSTALLATION SHALL BE DECIDED BY OWNER / OWNERS 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.	30 DEG. ELBOW G.I./1" MF ENDS	01	
3.	METER CONTROL VALVE (MCV)	01	
4.	BRASS DISCONNECTING UNION (Ø4"x12mm)	01	
5.	G.I./Cu ELBOW (Ø4"x2)	02	
6.	G.I./Cu TUBE (Ø4"x2)	3m	INDICATIVE
7.	PVC CLIP	05	
8.	BRASS DISCONNECTING UNION (Ø4"x12mm)	01	
9.	METER REGULATOR	01	
10.	METER INLET UNION (Ø4"x2)	01	
11.	Ø4"x2 METER (Ø4"x2)	01	
12.	METER OUTLET UNION (Ø4"x2)	01	
13.	METER BRACKET	01	
14.	BRASS ADAPTER (Ø4"x2)	01	
15.	APPLIANCE VALVE WITH NOZZLE (Ø4"x2)	01	
16.	Ø4"x2 STONE	01	
17.	STEEL REINFORCED RUBBER HOSE	1m	TYPICAL
18.	NOZZLE SET	02	
19.	COPPER ISOLATION TEE	01	OPTIONAL
20.	25mm OD. PVC PIPE AS PER IS - 6888	02	
21.	FRANK FLUIDS	02	
22.	WOOD SCREW	02	
23.	TEFLON TAPE	4m	INDICATIVE
24.	SOLDER WIRE	20gms	
25.	FLUX	15gms	
26.	METER CLAMP	01	
27.	LATERAL VALVE	01	

THIS IS THE GENERAL LAYOUT.

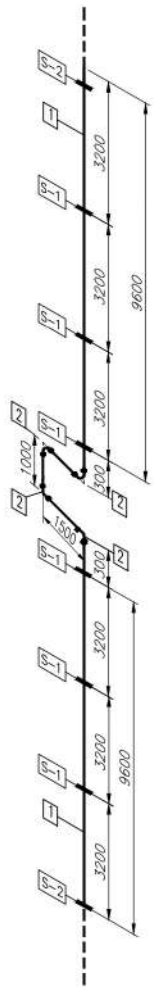
OWNER : CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

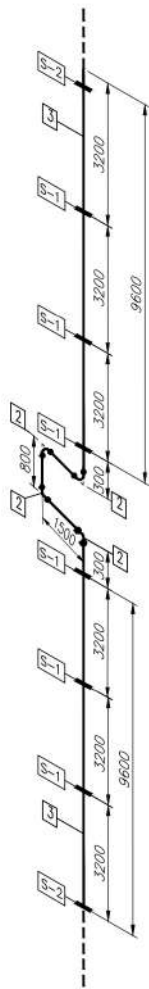
TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE : DATE : SHEET NO. : CAD : A3

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

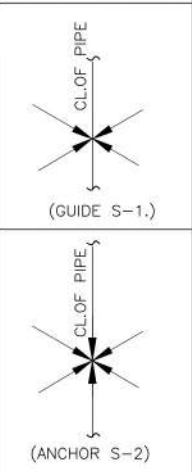


OPTION-A
(LOOP SIZE-1500X1000)



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:-
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OWNER: CENTRAL UP GAS LIMITED

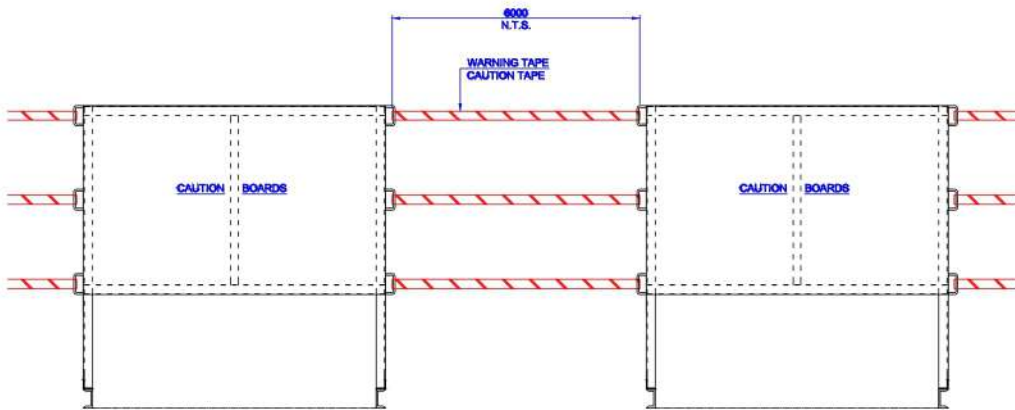
PROJECT: GI/COPPER INSTALLATION WORKS

TITLE: **EXPANSION LOOP FOR RISER**

IN HIGH RISE BUILDING

DRG. No. 1007-20-03-43 REV-0

DATE	05-07-2014	SCALE		CAD	A3
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SCHEMATIC LAYOUT OF CAUTION BOARDS AND BARRICADING

NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
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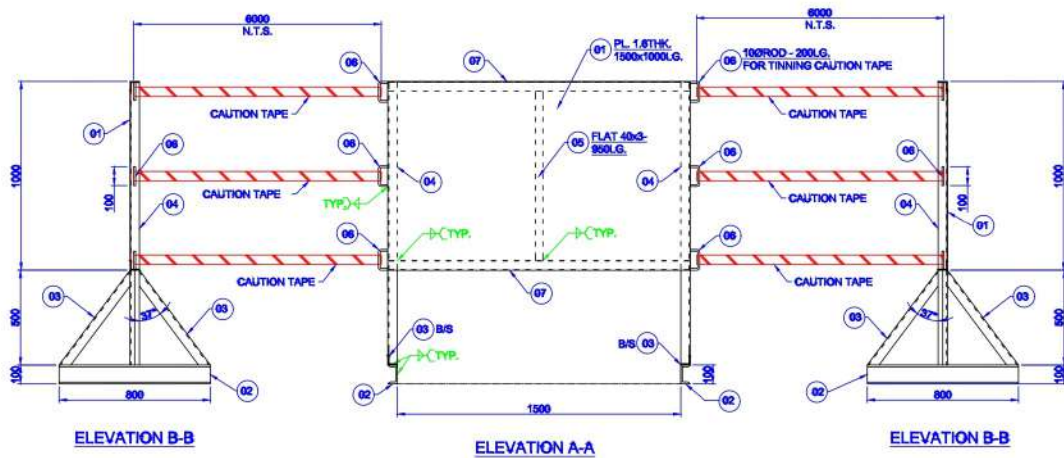
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : BARRICADING

SCALE: 1:10 DATE: SHEETS: CAD A3

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



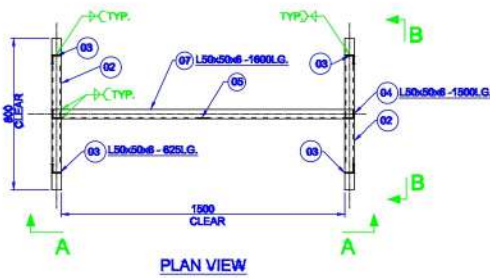
CAUTION
WORK IN PROGRESS
 LAYING OF NATURAL GAS PIPELINE
 CLIENT : OWNERS NAME
 CONTRACTOR NAME:
 DATE OF COMMENCEMENT:
 DATE OF COMPLETION:
 EMERGENCY PHONE NOB.:

IN RED →

← CLIENT LOGO

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 No.	Section	Width	Length	Item Qty.	Weight (Kg/Meter)	Total Weight (Kg)
1.	PL 1.6 THK	1800	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	-	1800	2	4.50	14.40
Grand Total (Kg)						74.74

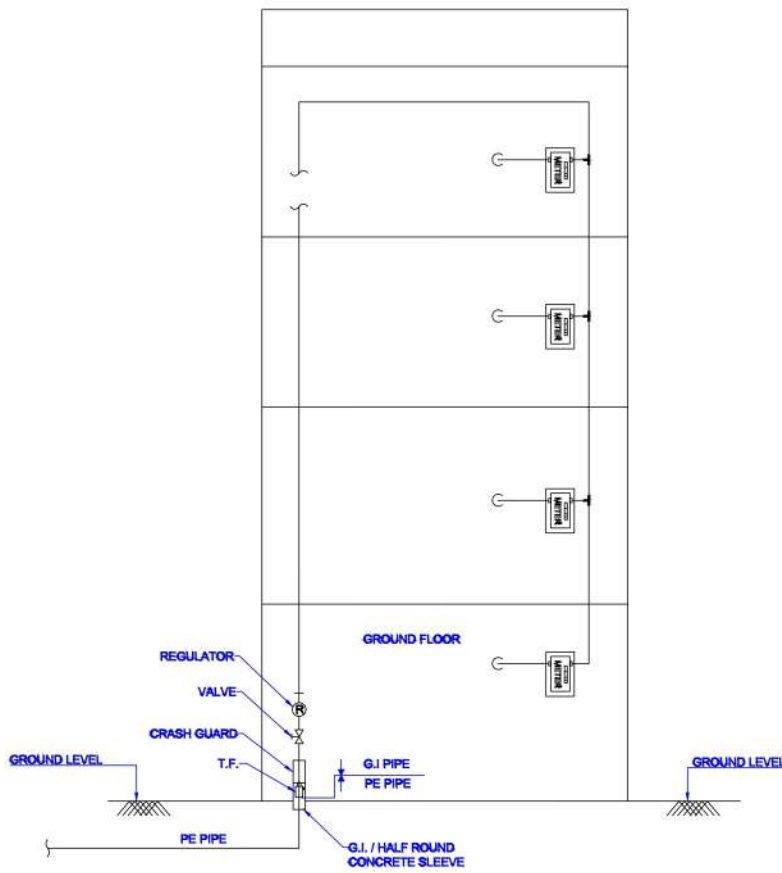
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

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

SCALE : 1:10
 DATE :
 DRAWN BY :
 CHECKED BY :
 CAD : A3

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



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

NOTES:-

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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.
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. C211036-20-05-08 REV-0

NOTES:-

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

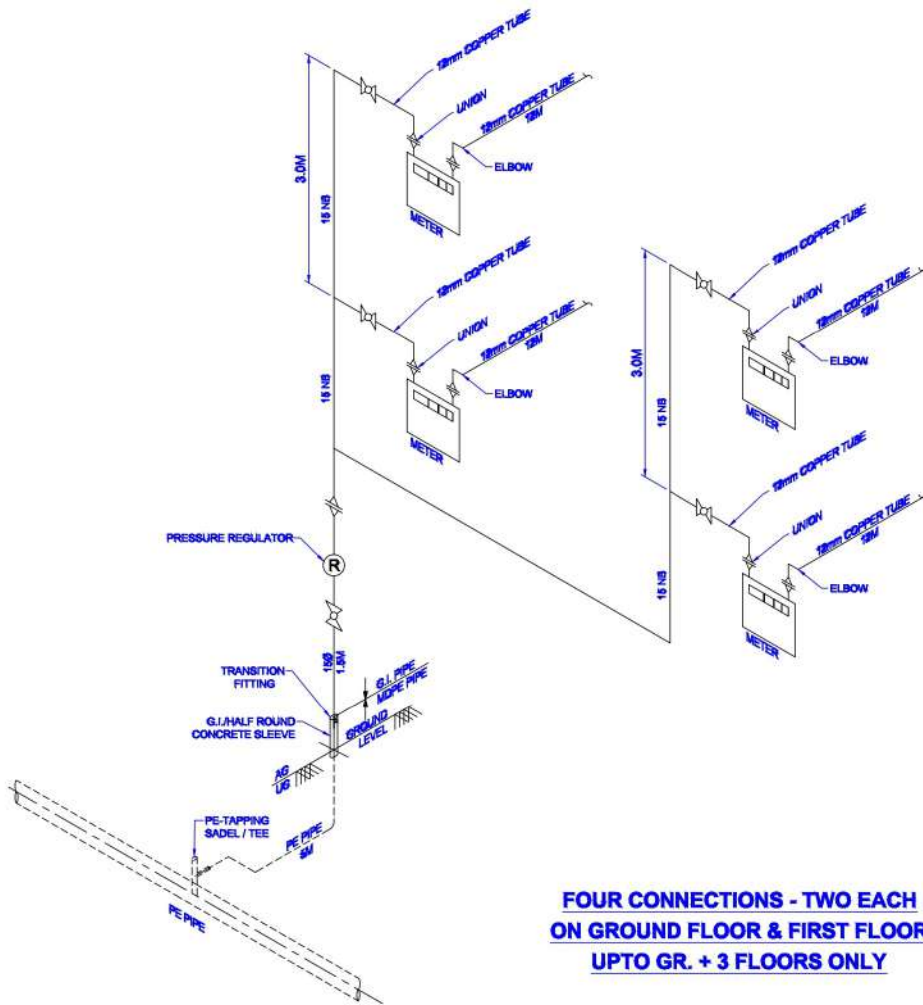
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

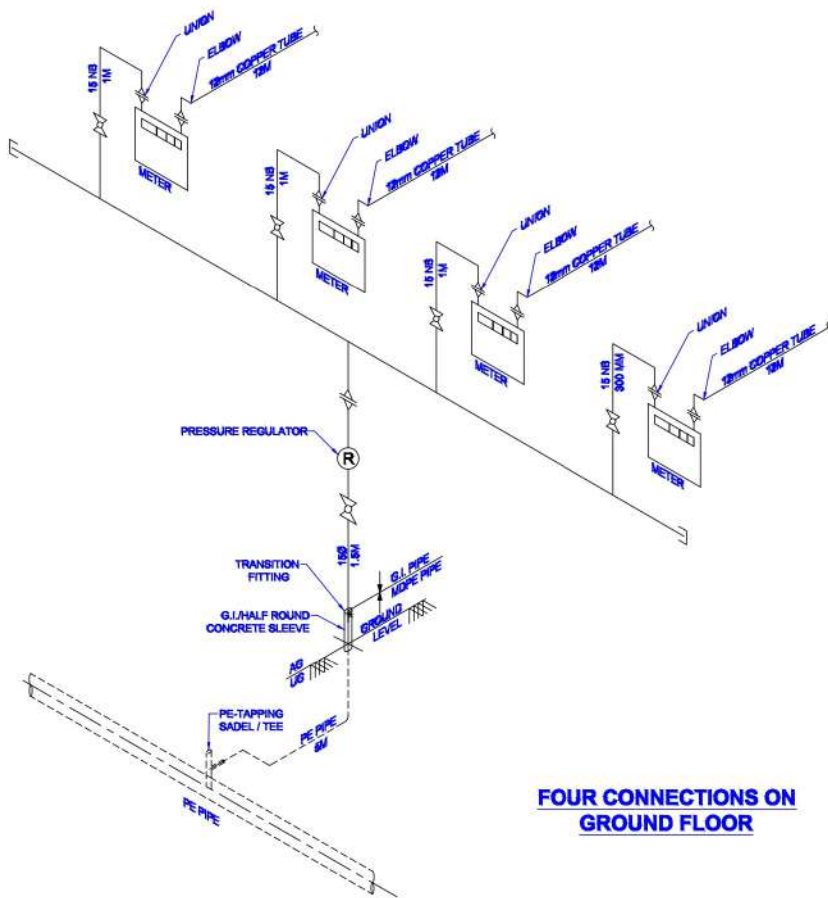
TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SHEET NO.	CAD	A3

DRG. NO. C211036-20-05-10 REV-0



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



**FOUR CONNECTIONS ON
GROUND FLOOR**

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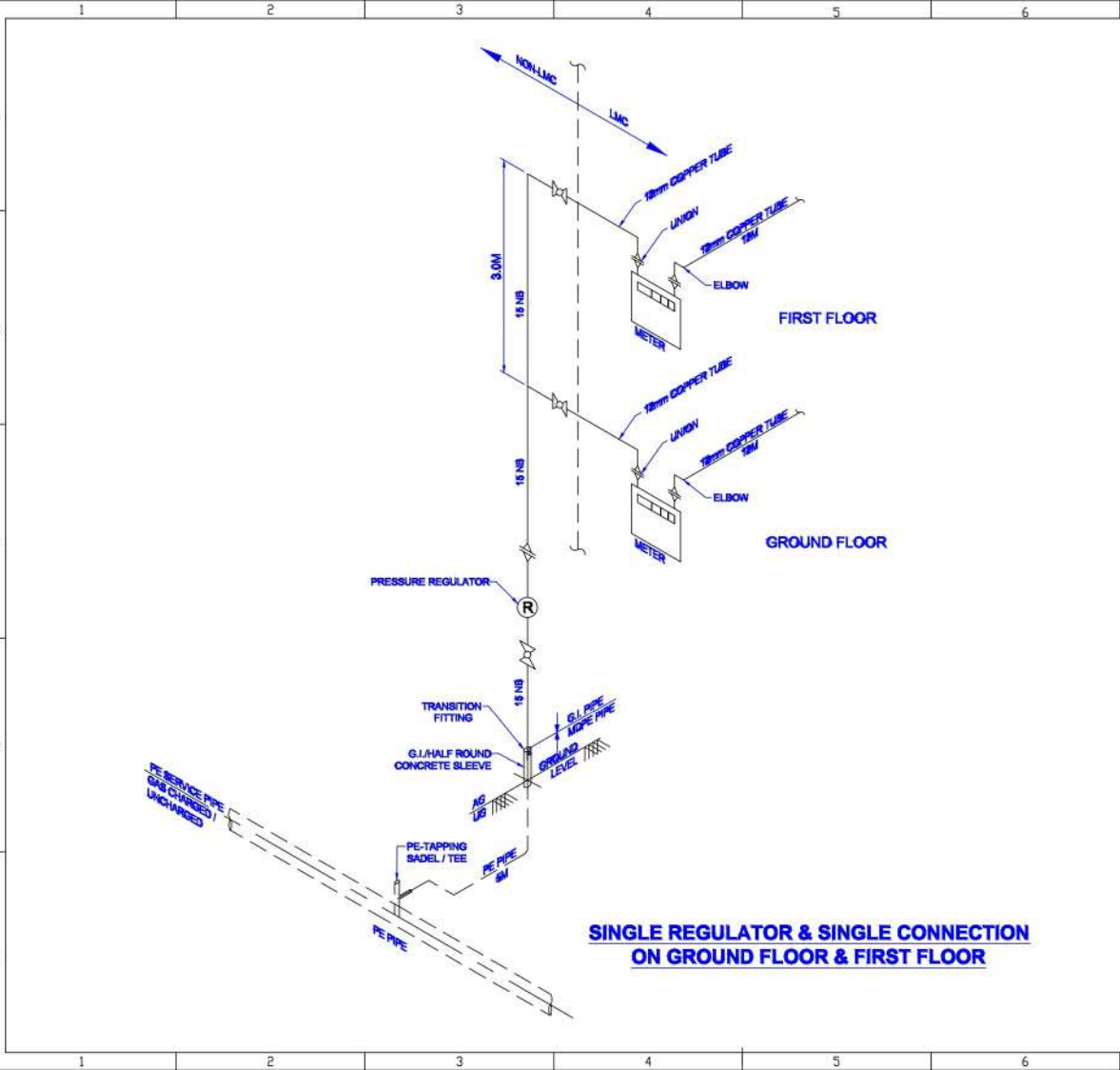
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION
LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SHEET NO.	CAD	A3

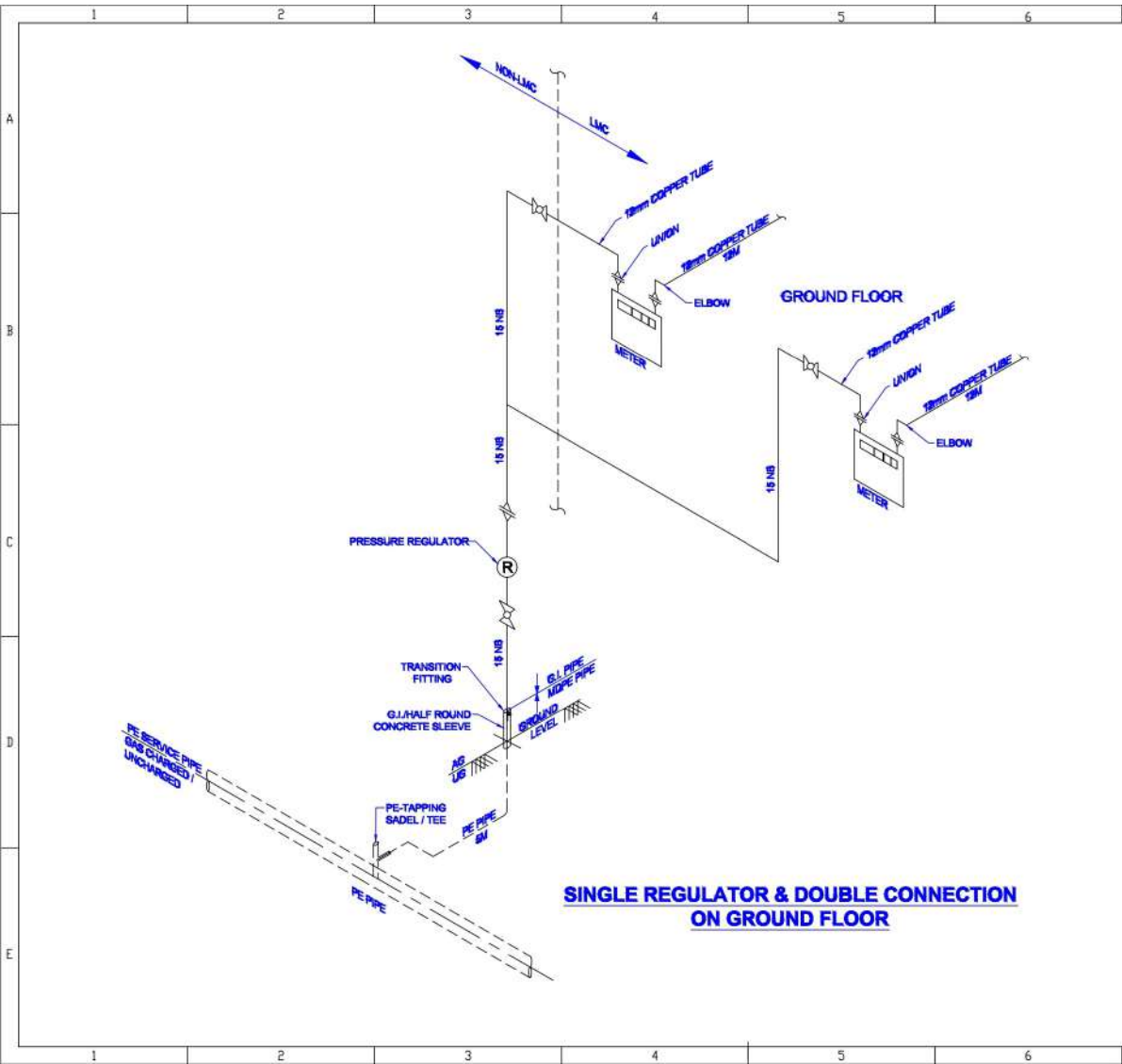
DRG. NO. C211036-20-05-11 REV-0



- NOTES:-**
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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 FOR FLAT	
SCALE :	DATE :	SOFTWARE :	CAD A3
DRG. NO. :		C211036-20-05-12 REV-0	



NOTES:-

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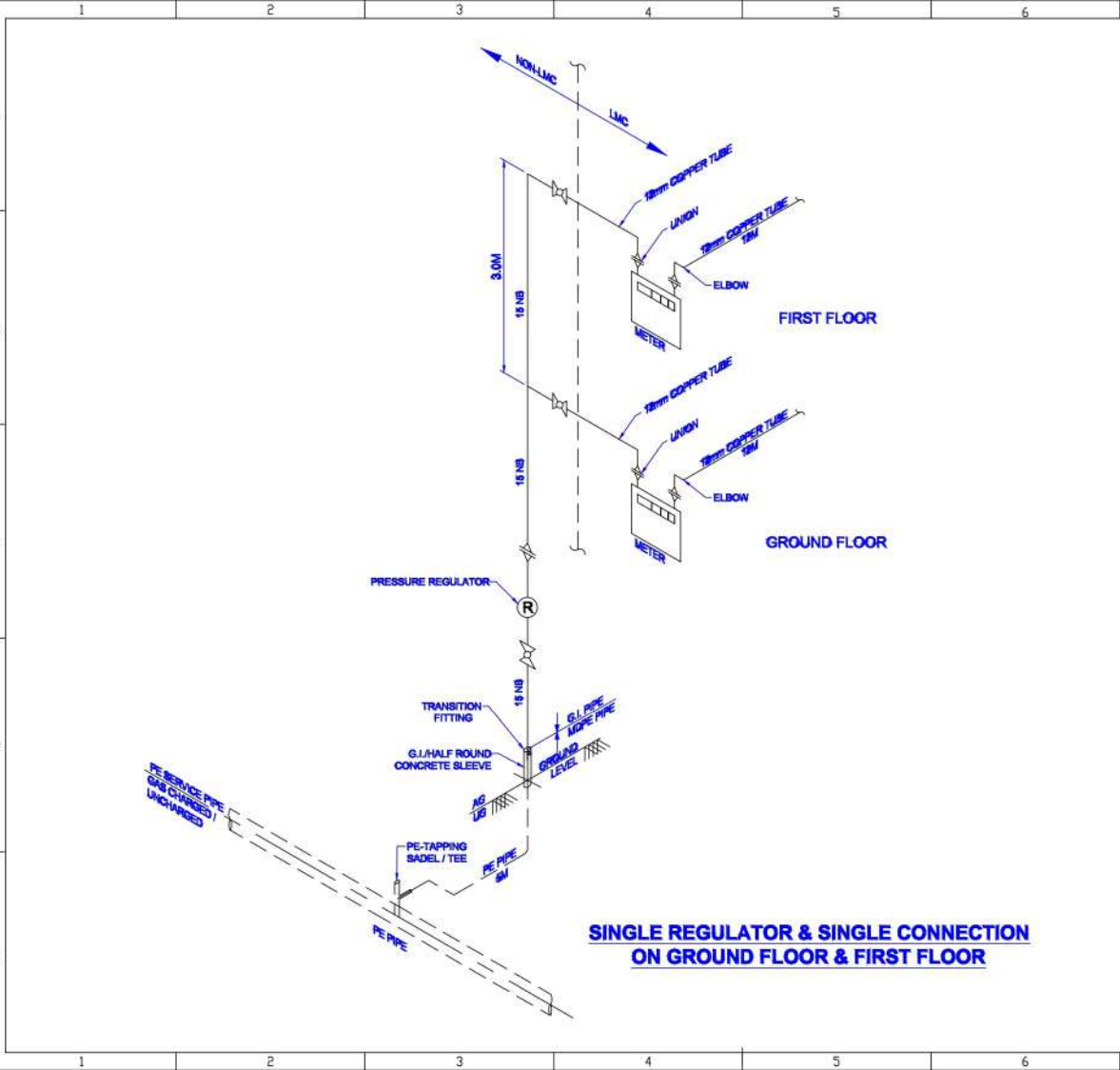
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FOR LMC AND NON-LMC**

OWNER : CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SUBJECT	CAD	A3
DRG. NO.	C211036-20-05-13 REV-0			



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

NOTES:-

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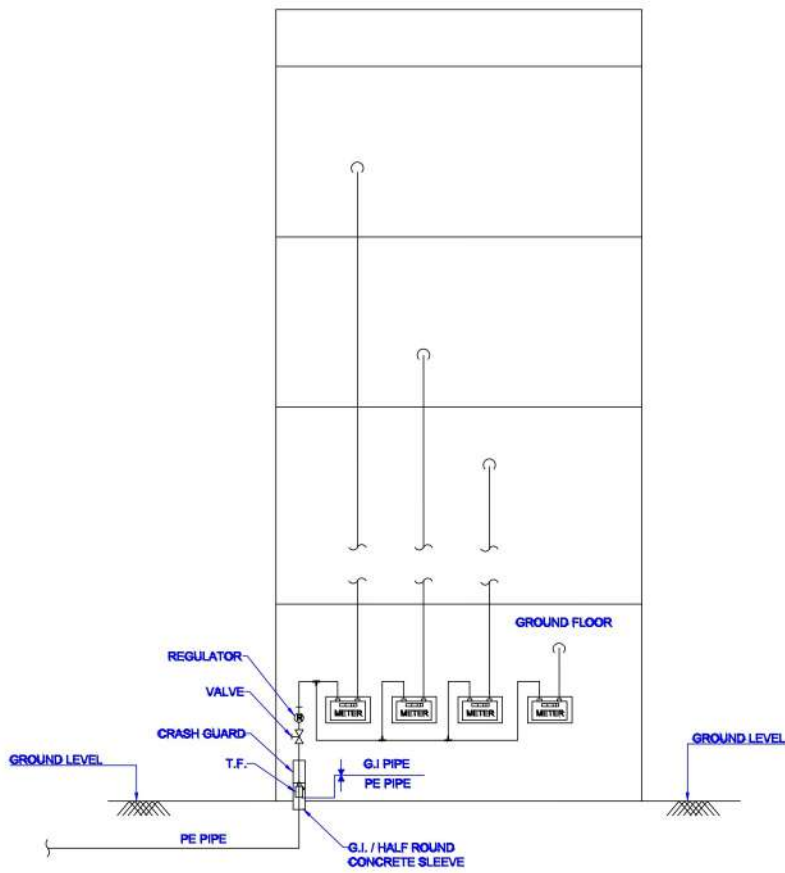
OWNER : CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION
LAYOUT OF NG KOTHI

SCALE	DATE	SHEET NO.	CAD	A3

DRG. NO. C211036-20-05-14 REV-0



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

NOTES:-

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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.

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FOR LMC AND NON-LMC**

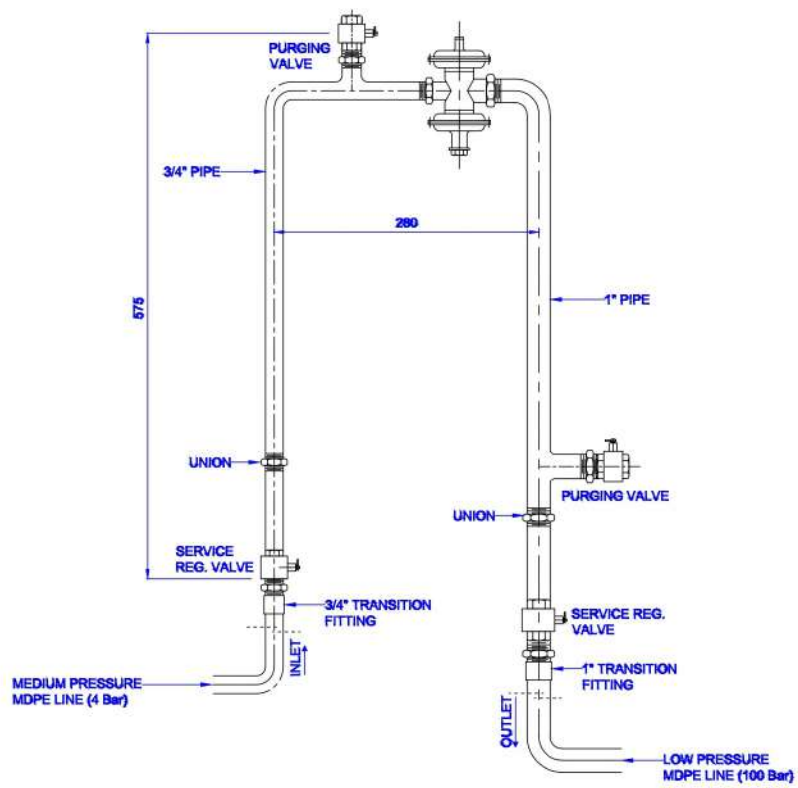
OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : TYPICAL DOMESTIC CONNECTION LAYOUT OF NG DISTRIBUTION

SCALE	DATE	SHEET NO.	CAD	A3

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



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
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OWNER :  CENTRAL UP GAS LIMITED

PROJECT : GI/COPPER INSTALLATION WORKS

TITLE : SCHEMATIC DIAGRAM FOR SINGLE STREAM REGULATOR

SCALE : DATE : DRAWN BY : CHECKED BY : **CAD** **A3**

DRG. NO. C211036-20-05-37 REV-0