



**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

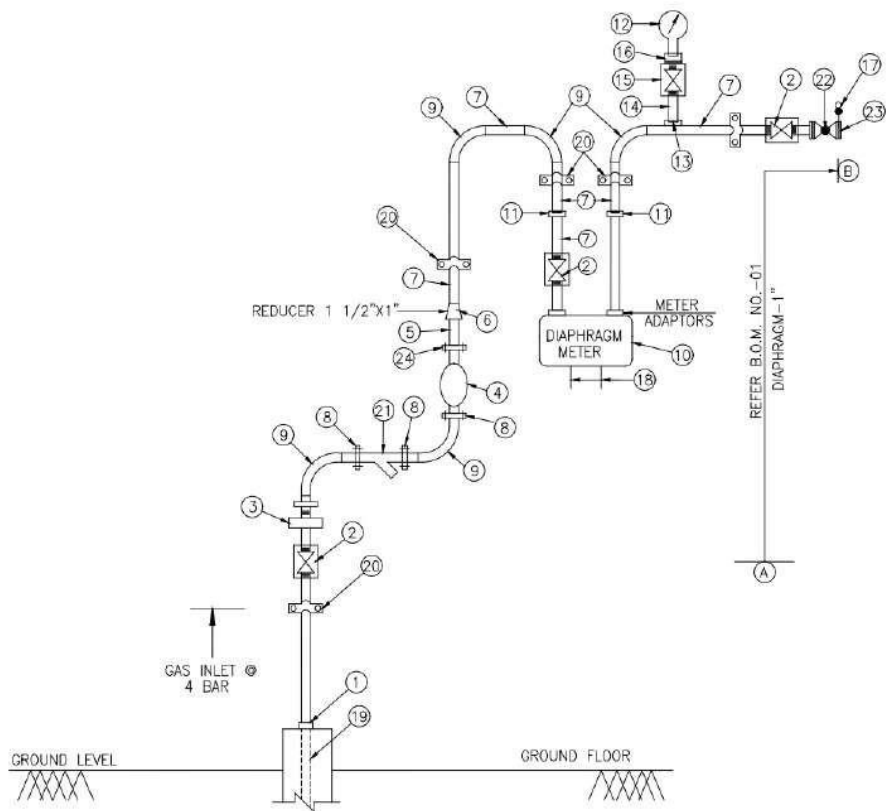
TENDER NO. CUGL/C&P/TEN2324/67

**Technical Volume
II of II_Part 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 ANS B1.20.1
 4. WELDING OF PIPES & FITTINGS SHALL BE CARRIED OUT AS PER ACT 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 STD SHALL BE CONTRACTOR'S RESPONSIBILITY.
 8. GIVEN BOM 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.
 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.

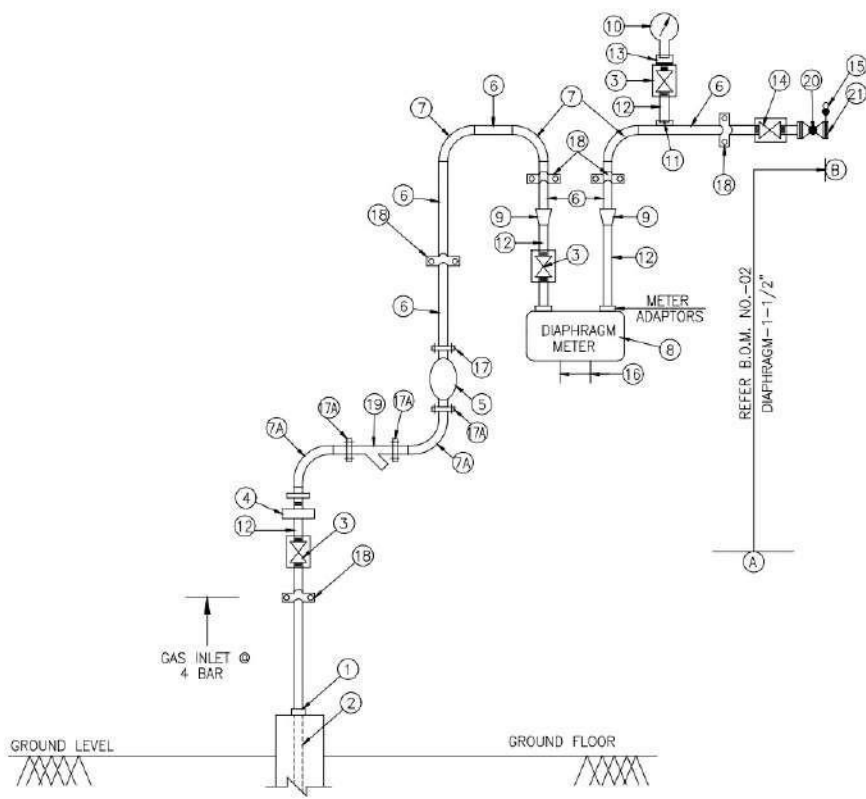
REV.	DATE	DESCRIPTION	PREP	CHKD	APPD

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

PROJEC: _____

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

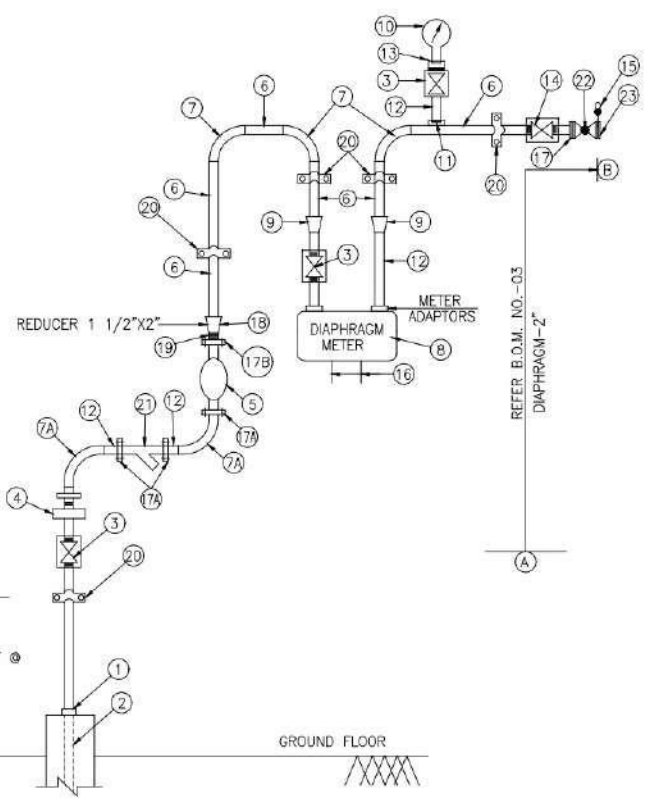
SIZE	SCALE	DRAWING NUMBER	SHEET	REV.
A3	NTS	14580-30-05-21	1 OF 1	A



- 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
 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 MESS 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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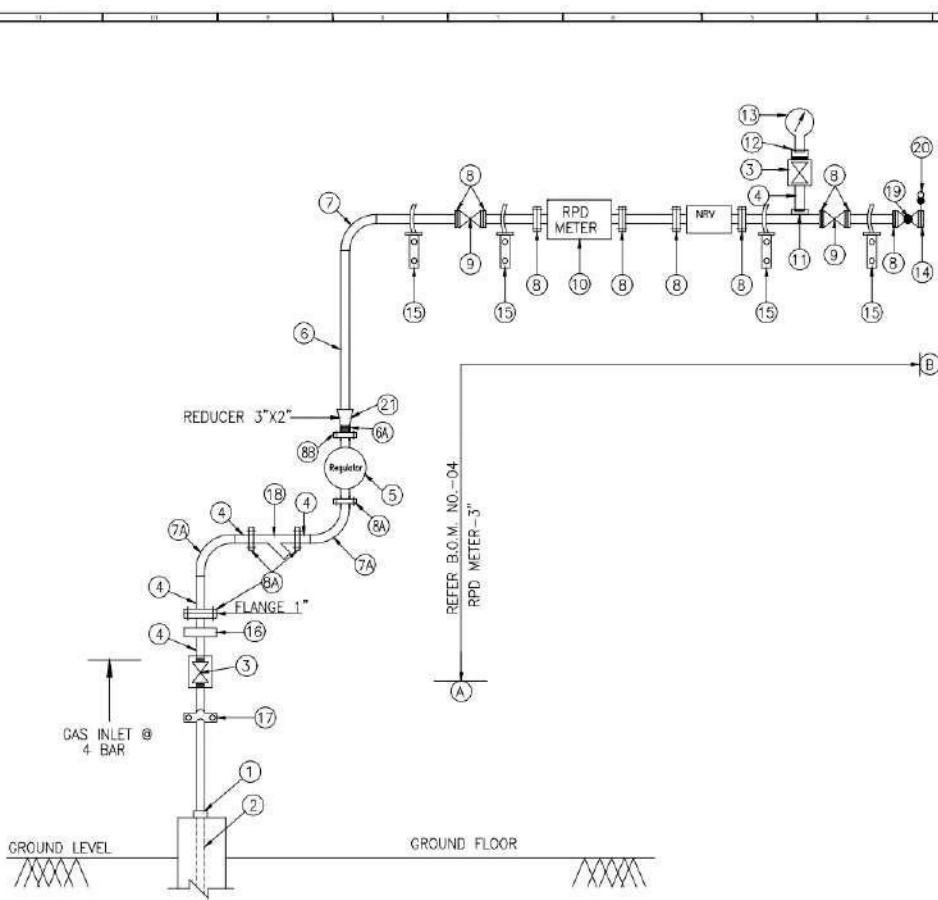
REV	DATE	DESCRIPTION	PREP.	CHKD	APPRD.
A	05.03.2020	ISSUED FOR APPROVAL			
CLIENT: CENTRAL UP GAS LTD					
PROJECT:					
TITLE: SCHEMATIC DIAGRAM METERING & REGULATING STATION					
SIZE	SCALE	DRAWING NUMBER	SHEET	REV.	
A3	NTS	14569-05-65-22	1 OF 1	A	



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
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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	14569-05-65-23	1 OF 1	A	



- NOTES:-**
1. CS PIPE SHALL CONFIRM TO ASTM A106 Gr B.
 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
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 11. IN CASE OF SPACE CONSTRAINT, FLANGE END Y-TYPE STRAINER MAY BE INSTALLED VERTICALLY.

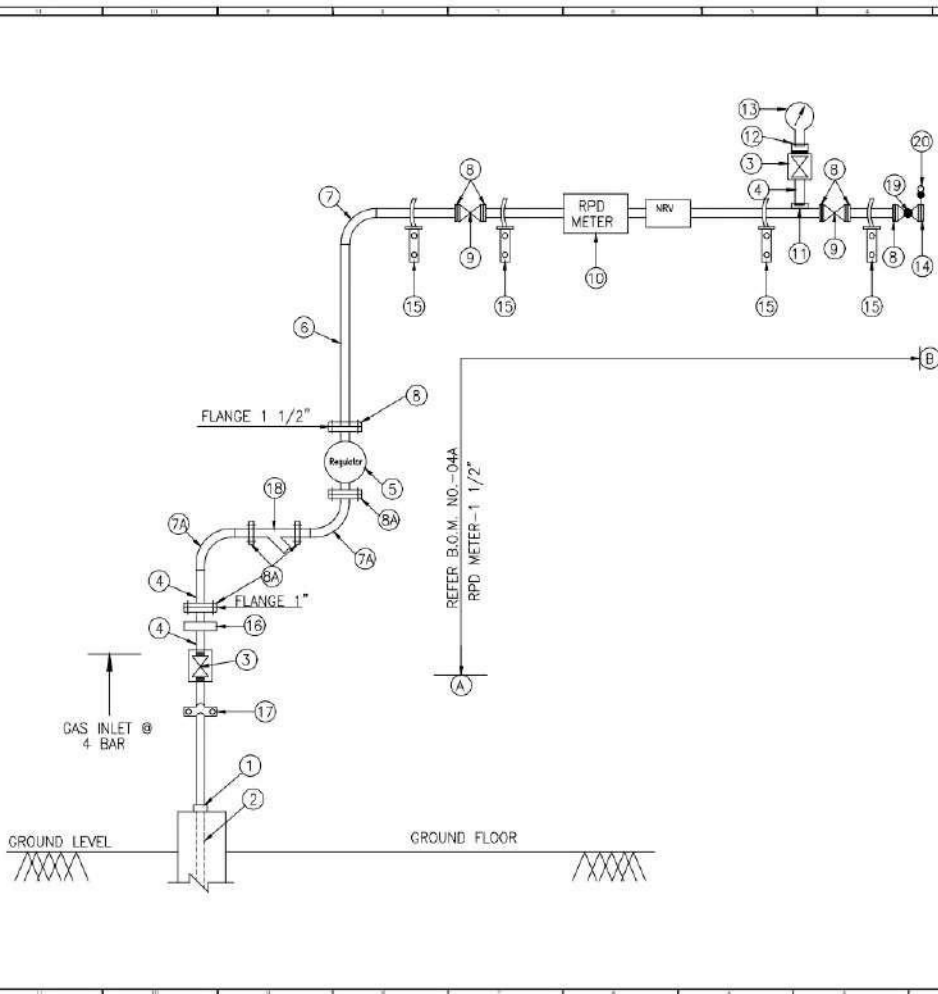
1. DESIGN MAY BE CUSTOMIZED/ MODIFIED AS PER AVAILABLE SPACE AT SITE.

REV	DATE	DESCRIPTION	PREP.	CHKD	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	14569-05-65-24	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
 4. WELDING OF PIPES & FITTINGS SHALL BE CARRIED OUT AS PER API 1104.
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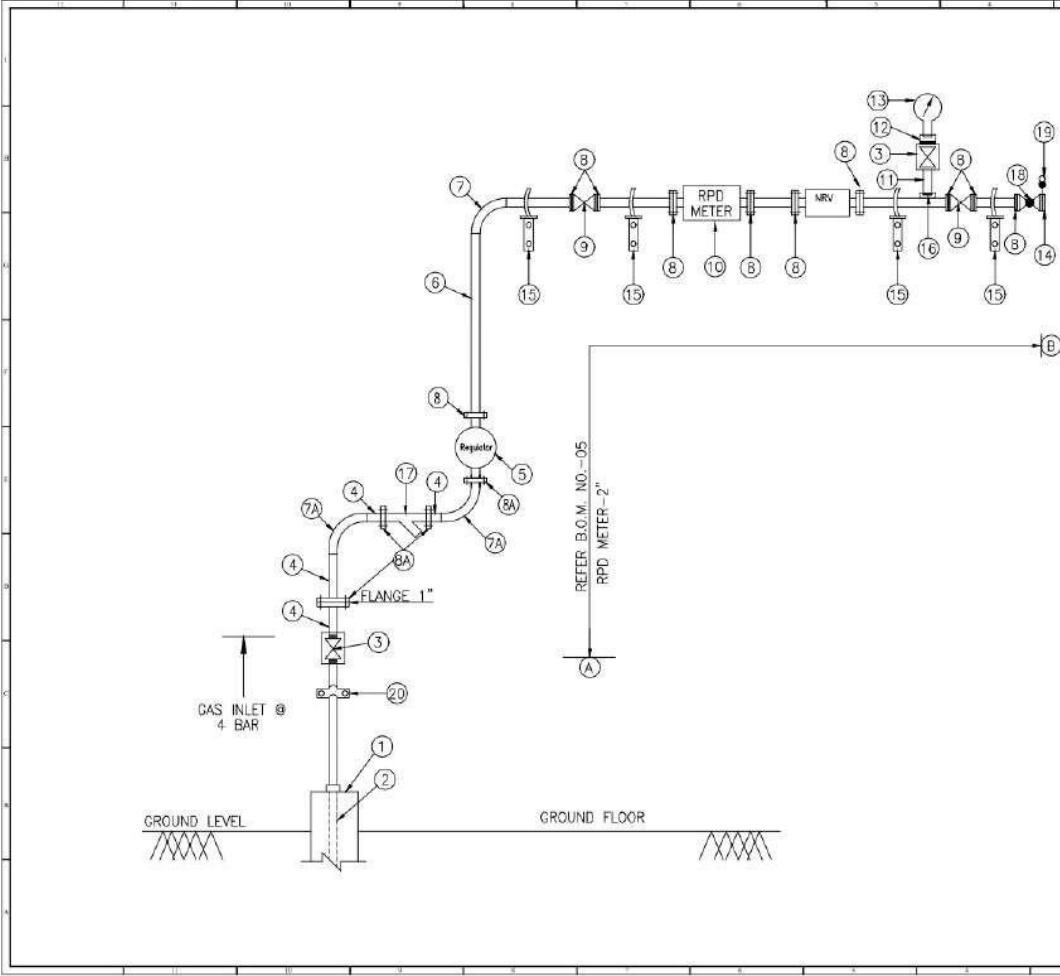
1. DESIGN MAY BE CUSTOMIZED/ MODIFIED AS PER AVAILABLE SPACE AT SITE.

REV	DATE	ISSUED FOR APPROVAL	CHK	MD	APPD

CLIENT:  **CENTRAL UP GAS LTD**

PROJECT:

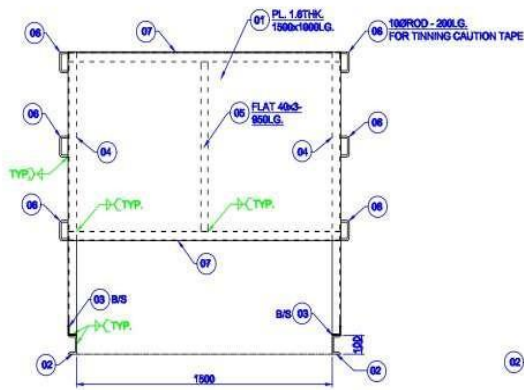
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SCHEMATIC DIAGRAM				
METERING & REGULATING STATION				
SIZE	SCALE	DRAWING NUMBER	SHEET	REV.
A3	NTS	14589-08-95-04A	1 OF 1	A



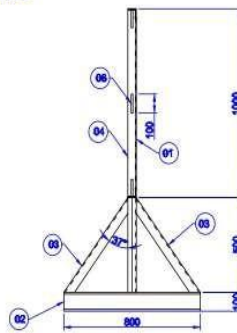
- NOTES:-**
- 1. CS PIPE SHALL CONFIRM TO ASTM A106 GR. B.
 - 2. CS FITTINGS SHALL CONFIRM TO ASTM A105.
 - 3. NPT THREADS SHALL CONFIRM TO ANSI B1.20.1
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 - 8. GIVEN BOM IS INDICATIVE ONLY. INDICATIVE ITEM MAY VARY DURING ACTUAL CONSTRUCTION ON SITE.
 - 9. AMOUNT FROM FREE ISSUE MATERIAL BALANCE SHALL BE SUPPLIED BY CONTRACTOR.
 - 10. CONTRACTOR TO ENSURE PROVISION FOR LOCKING/SEALING ARRANGEMENT FOR METERS/VALVE TO AVOID MISUSE.
 - 11. IN CASE OF SPACE CONSTRAINT, FLANGE END Y-TYPE STRAINER MAY BE INSTALLED VERTICALLY.

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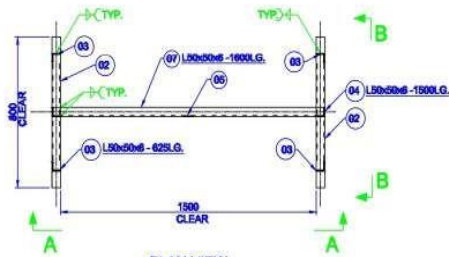
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REV.	DATE	DESCRIPTION	PREP.	CHKD.	APPD.
CLIENT: CUGL CENTRAL UP GAS LTD					
PROJECT:					
TITLE: SCHEMATIC DIAGRAM METERING & REGULATING STATION					
SIZE	SCALE	DRAWING NUMBER	SHEET	REV.	
A3	NTS	14569-06-95-26	1 OF 1	A	



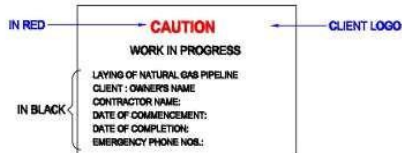
ELEVATION A-A



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	1600	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	0.93
6.	100 Rod	-	200	6	0.62	0.74
7.	L50x50x6	-	1000	2	4.50	14.40
Grand Total (Kg)						74.74

OWNER :

CENTRAL UP GAS LIMITED

PROJECT :

G/COPPER INSTALLATION WORKS

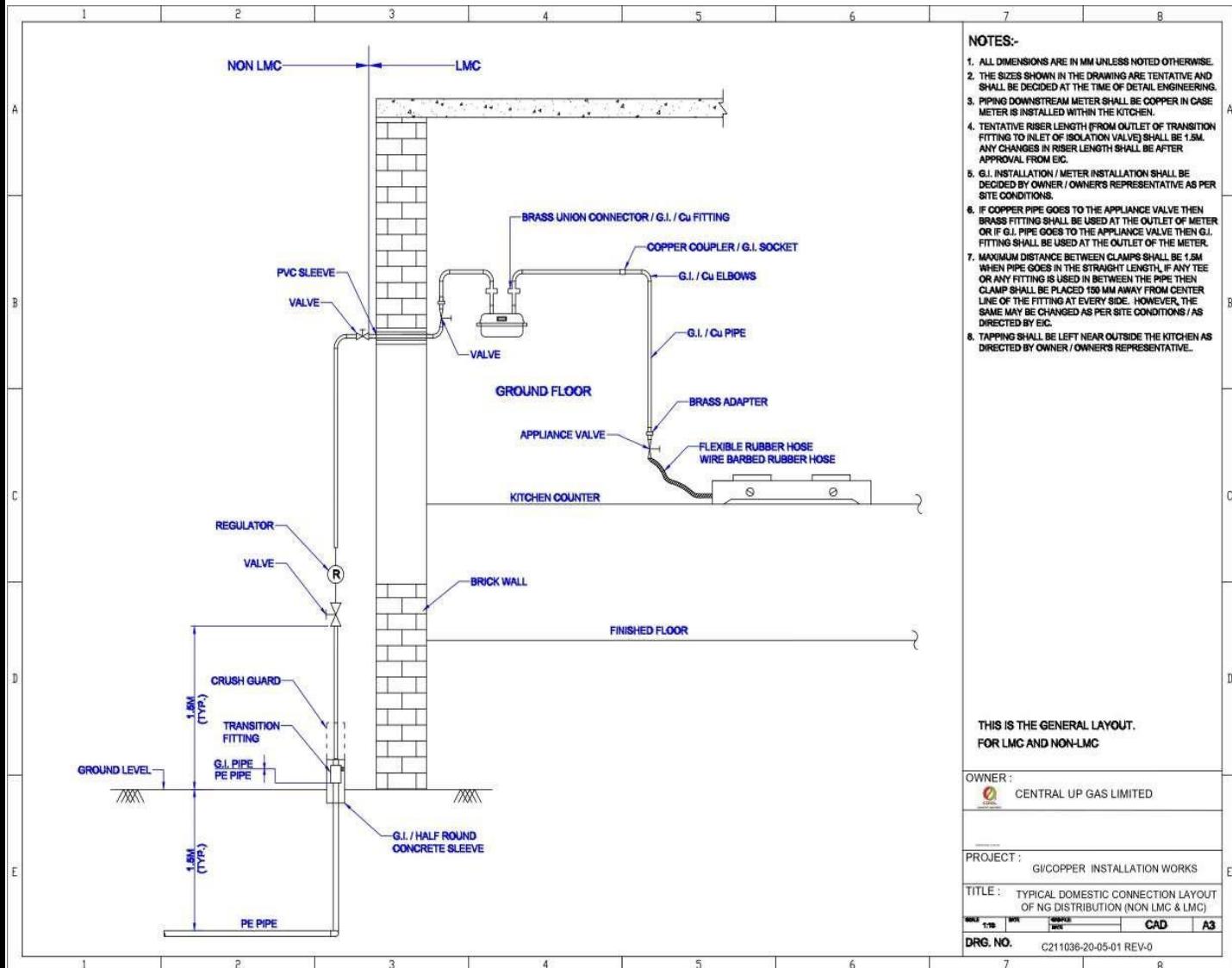
TITLE :

CAUTION BOARD

DRG. NO.


CAD A3

C211036-10-03-32 REV-0



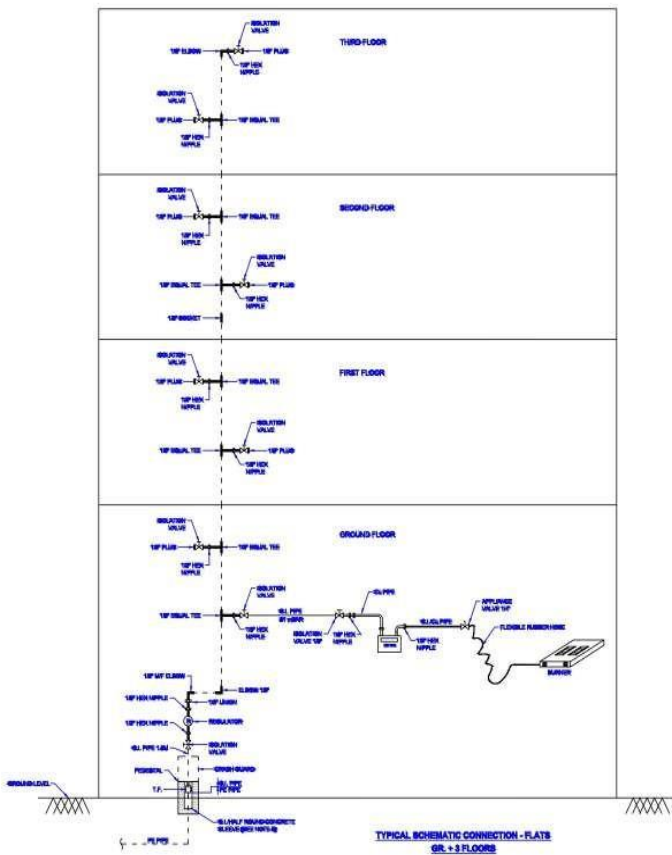
- NOTES:-**
1. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.
 2. THE SIZES SHOWN IN THE DRAWING ARE TENTATIVE AND SHALL BE DECIDED AT THE TIME OF DETAIL ENGINEERING.
 3. PIPING DOWNSTREAM METER SHALL BE COPPER IN CASE METER IS INSTALLED WITHIN THE KITCHEN.
 4. TENTATIVE RISER LENGTH (FROM OUTLET OF 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 / 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.

**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 (NON LMC & LMC)
SCALE :	1:10
DRG. NO.	C211036-20-05-01 REV-0

1 2 3 4 5 6 7 8

A
B
C
D
E



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.
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8. METER CLAMP SHALL BE APPROVED FROM OWNER / OWNER'S REPRESENTATIVE.

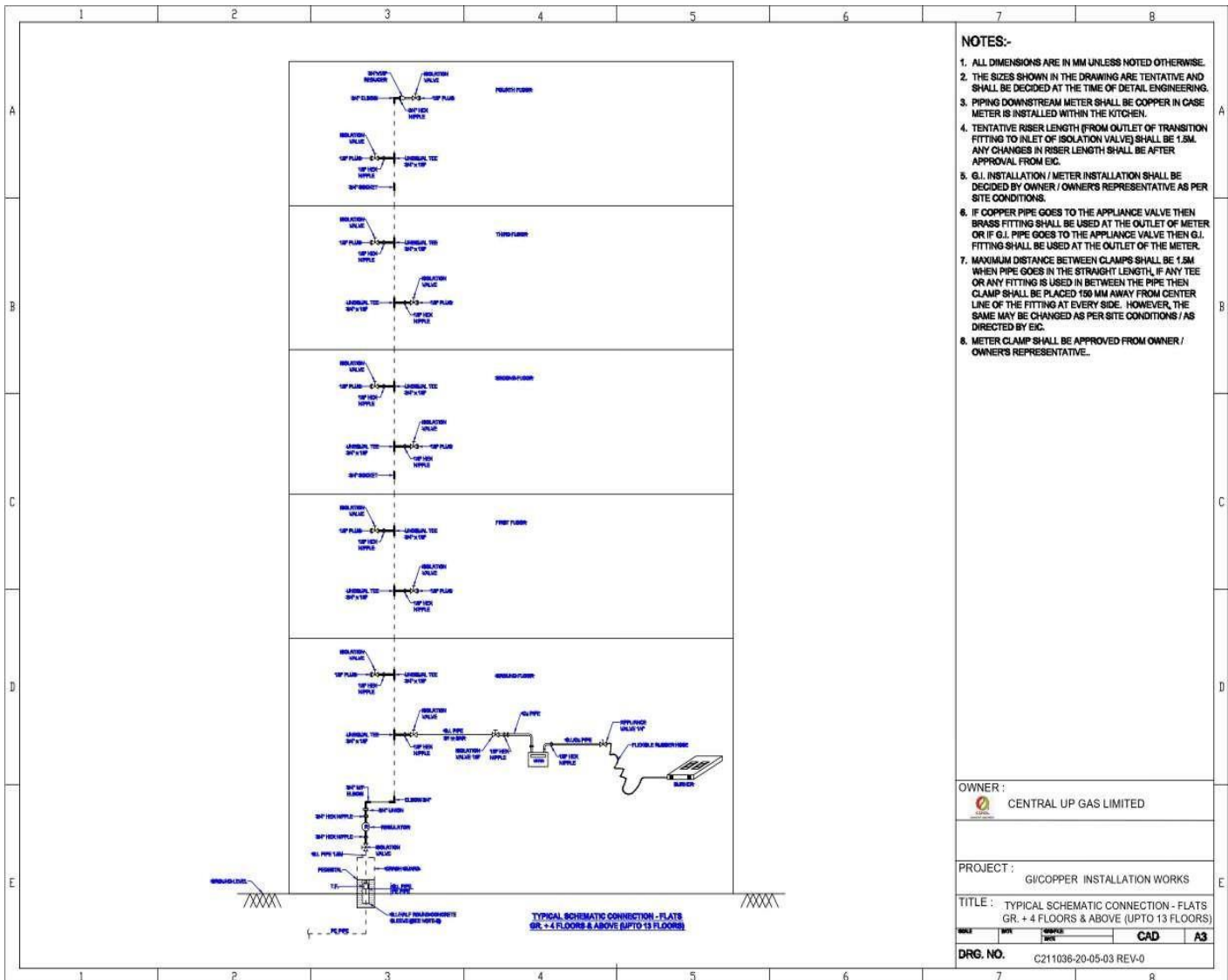
OWNER :
 CENTRAL UP GAS LIMITED

PROJECT :
 GI/COPPER INSTALLATION WORKS

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


NO.	176	MR	DATE	SCALE	CAD	A3
DRG. NO.	C211036-20-05-02 REV-0					

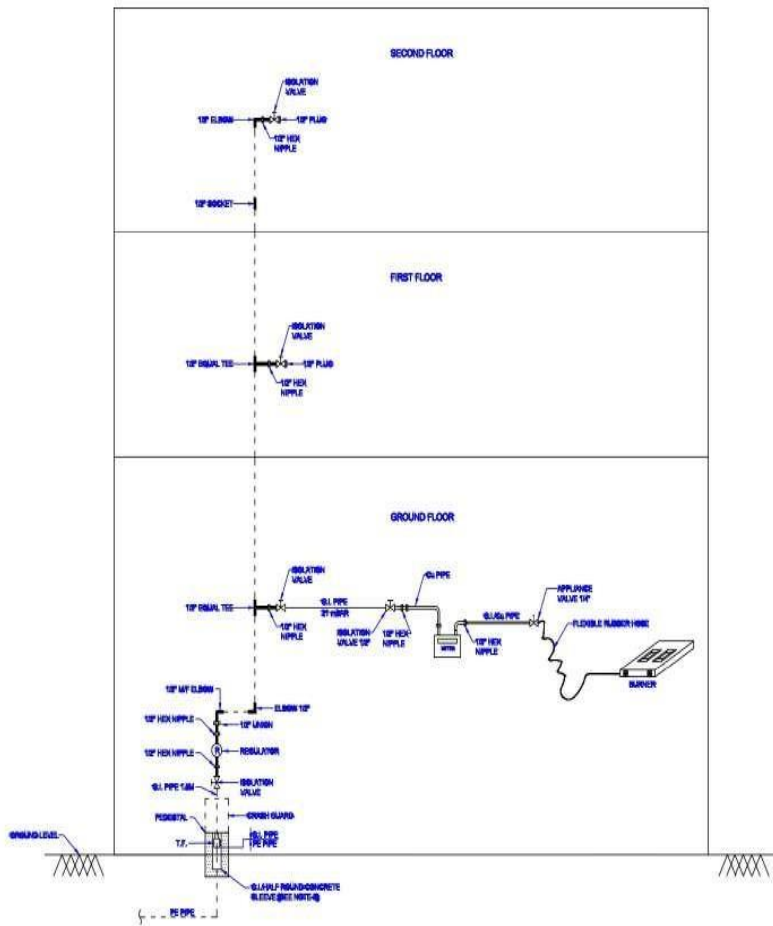
1 2 3 4 5 6 7 8



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 / 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. METER CLAMP SHALL BE APPROVED FROM OWNER / OWNERS REPRESENTATIVE.

OWNER :	 CENTRAL UP GAS LIMITED			
PROJECT :	G/COPPER INSTALLATION WORKS			
TITLE :	TYPICAL SCHEMATIC CONNECTION - FLATS GR. + 4 FLOORS & ABOVE (UPTO 13 FLOORS)			
SCALE :	DATE :	DESIGNED BY :	CAD :	A3
DRG. NO. :	C211038-20-05-03 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.
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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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. METER CLAMP SHALL BE APPROVED FROM OWNER / OWNERS REPRESENTATIVE.

OWNER :
 CENTRAL UP GAS LIMITED

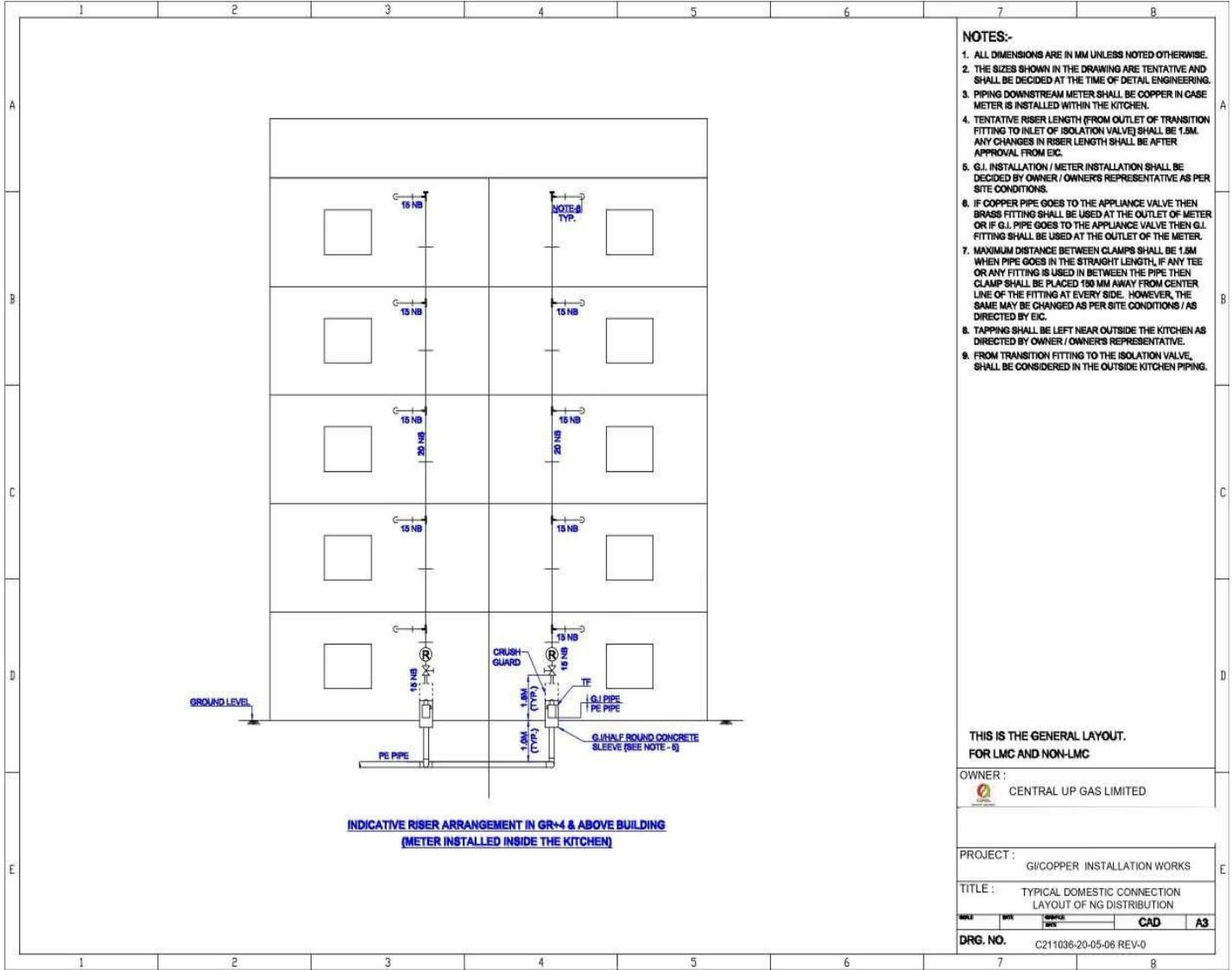
PROJECT :
 GICOPPER INSTALLATION WORKS

TITLE :
 TYPICAL SCHEMATIC CONNECTION - KOTHI

SCALE :

DATE	REV	ISSUED	DATE

 CAD A3
 DRG. NO. C211036-20-05-04 REV-0

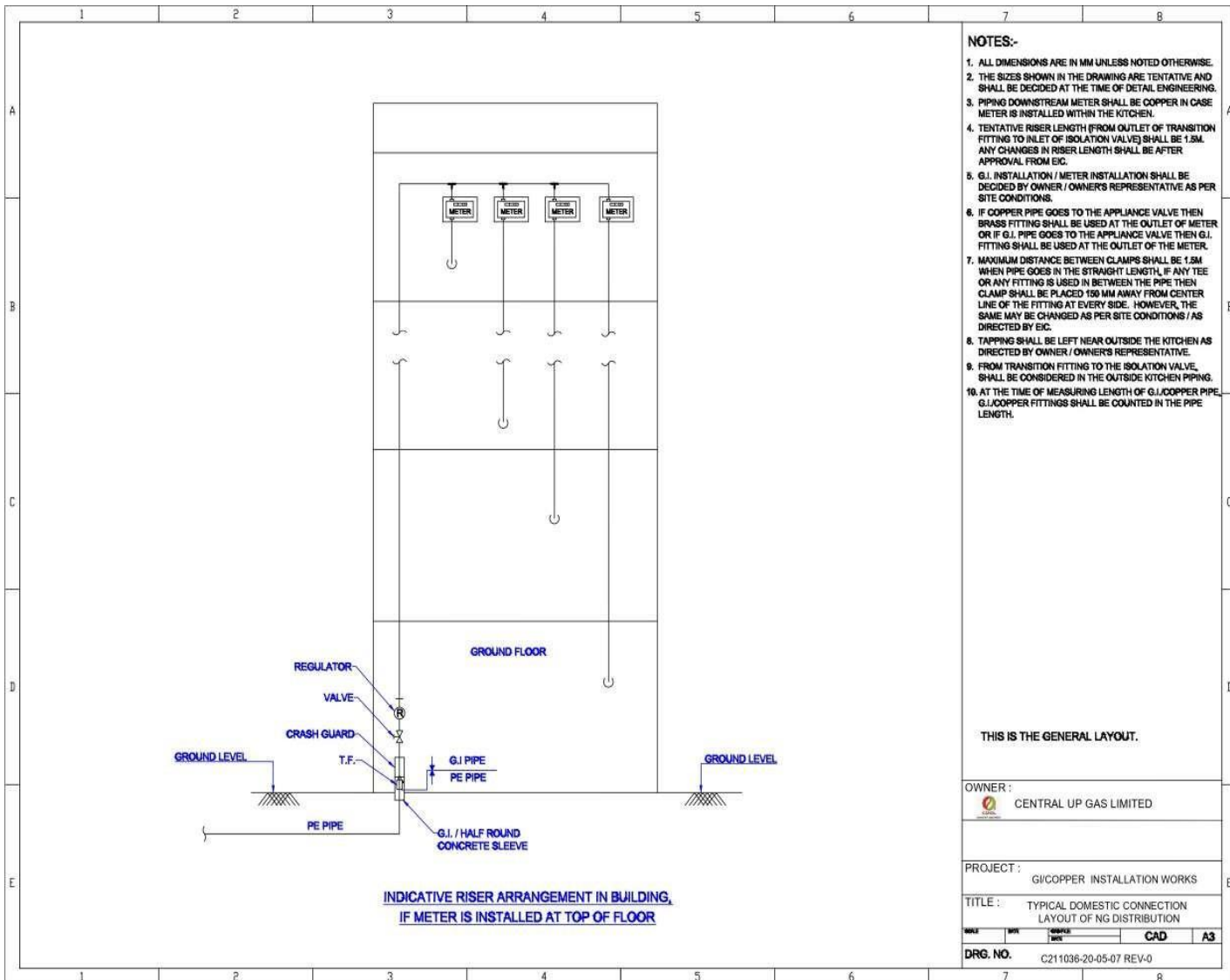


**INDICATIVE RISER ARRANGEMENT IN GR-4 & ABOVE BUILDING
(METER INSTALLED INSIDE THE KITCHEN)**

- 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.
 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 100 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.

**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	DESIGNED	CAD A3
DRG. NO.	C211038-20-05-06 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.
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 8. TAPPING SHALL BE LEFT NEAR OUTSIDE OF 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 :	CAD	A3
DRG. NO. :		C211036-20-05-07 REV-0	