


ANNUAL PROCUREMENT PLAN FOR 5 YEARS

Name of Organization	Mahanagar Gas Limited		
Ministry / Department	Ministry of Petroleum and Natural Gas (MOPNG)		
Website link	https://www.mahanagargas.com/UploadAssets/UploadedFiles/Procurement-plan-materials.pdf		

Given below is the list of items required for CNG and PNG infrastructure at Mahanagar Gas Limited. MGL supports Make in India and Atmanirbhar Bharat Initiatives taken by Government of India. The quantities mentioned are tentative and may vary depending upon targets. List also provides the estimated value (excluding taxes and duties) of each item. MGL continuously strives towards indigenization and Import Substitution to promote MSMEs & Domestic Manufacturers.

Interested Domestic Manufacturers and MSMEs may write to following officers for further details & technical specifications.

Category	Name of the Contact Person	Email ID
PNG	Pooja Parekh	pparekh@mahanagargas.com
CNG	Rajesh Deshmukh	rajeshdeshmukh@mahanagargas.com
STEEL	Harshal Shah	hshah@mahanagargas.com

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PROCUREMENT PLAN (PNG, CNG & STEEL) - MAHANGAR GAS LIMITED - FY 2020-21

Sr. No.	Category	MATERIAL DESCRIPTION	UOM	Quantity	Estimated value of procurement (Rs. Lakhs)
1	PE	Appliance Valve 1/4" with Nozzle 6.4 mm	EA	100000	118.8
2	PE	Meter Control Valve 1/2"	EA	160000	234.0
3	PE	Riser Isolation Valve 3/4"	EA	7391	18.2
4	PE	Riser Isolation Valve 1"	EA	4914	16.8
5	PE	Riser Isolation Valve 2"	EA	593	7.7
6	PE	Brass Ball Valve 1/4" (F/F)	EA	6618	8.3
7	PE	Brass Disconn Union 3/4" x 12 mm (St)	EA	100000	85.0
8	PE	Brass Disconn Union 1/2" x 12 mm (St)	EA	100000	85.0
9	PE	Brass Adaptor 1/4" M x 12 mm	EA	100000	16.5
10	PE	Meter Inlet Union 3/4 F x 3/4"	EA	100000	102.0
11	PE	Meter Outlet Union 3/4" x 12 mm	EA	100000	102.0
12	PE	Brass adap 1/2" x 1/2" - flex corr pipe	EA	40000	17.6
13	PE	Diaph GM G 1.6 (Qmax 2.5scmh)	EA	130000	1235.0
14	PE	Meter Regulator 3/4"-Prefitted	EA	100000	495.0
15	PE	SR Module assembly (25 scmh)	EA	1176	80.0
16	PE	SR Module assembly (40 scmh)	EA	515	45.1
17	PE	SR Module assembly (65 scmh)	EA	515	67.0
18	PE	Crimping Fitting 1" x 32 mm (LP)	EA	4900	6.5
19	PE	Crimping Fitting 3/4"x 32 mm (LP)	EA	7300	9.7
20	PE	Crimping Fitting 2" x 63 mm (LP)	EA	600	5.5
21	PE	GASKETS (STUB FLANGE) 2"-63 mm	EA	40	0.1
22	PE	PE ADAPTER(STUB FLANGE) 63 mm	EA	40	0.2
23	PE	PLATE FLANGE (STUB FLANGE) 2"-63mm	EA	40	0.3
24	PE	GASKETS (STUB FLANGE) 3" -90 mm	EA	100	0.3
25	PE	PE ADAPTER(STUB FLANGE) 90 mm	EA	100	1.8
26	PE	PLATE FLANGE (STUB FLANGE) 3"-90mm	EA	100	1.7
27	PE	GASKETS (STUB FLANGE) 4" -125 mm	EA	100	0.3
28	PE	PE ADAPTER(STUB FLANGE) 125 mm	EA	100	1.6

29	PE	PLATE FLANGE (STUB FLANGE) 4"-125mm	EA	100	2.1
30	PE	PE Stop-off Valve 63 mm	EA	260	16.8
31	PE	PE Stop-off Valve 90 mm	EA	290	26.7
32	PE	PE Stop-off Valve 125 mm	EA	340	40.5
33	PE	Rubber hose (8 mm NB), steel reinforced	M	150000	58.1
34	PE	Diaph GM G 4 (Qmax 6scmh)	EA	36	1.1
35	PE	Diaph GM G 6 (Qmax 10scmh)	EA	90	6.7
36	PE	Service Regulator 25 scmh	EA	353	8.7
37	PE	Service Regulator 40 scmh	EA	59	2.1
38	PE	Service Regulator 65 scmh	EA	62	4.7
39	PE	PE PIPE 32 mm (PE 100) SDR 11 (CU WIRE)	M	160700	67.7
40	PE	PE PIPE 63 mm (PE 100) SDR 11 (CU WIRE)	M	18800	23.8
41	PE	PE PIPE 90 mm (PE 100) SDR 11 (CU WIRE)	M	121000	326.8
42	PE	PE PIPE 125 mm (PE 100) SDR 11 (CU WIRE)	M	83200	424.6
43	PE	PE End Cap 32 mm (PE 100)	EA	1650	0.7
44	PE	PE End Cap 63 mm (PE 100)	EA	700	0.8
45	PE	PE End Caps 90 mm (PE 100)	EA	560	2.6
46	PE	PE End Cap 125 mm (PE 100)	EA	160	1.2
47	PE	PE Coupler (St) 32 mm (PE 100)	EA	15960	4.6
48	PE	PE Coupler (St) 63 mm (PE 100)	EA	1250	0.9
49	PE	PE Coupler (St) 90 mm (PE 100)	EA	4820	13.7
50	PE	PE Coupler (St) 125 mm (PE 100)	EA	2490	10.1
51	PE	PE Elbow 32 mm 90 deg (PE 100)	EA	3600	2.5
52	PE	PE Elbow 63 mm 45 deg (PE 100)	EA	750	1.4
53	PE	PE Elbow 63 mm 90 deg (PE 100)	EA	1100	2.0
54	PE	PE Elbow 90 mm 45 deg (PE 100)	EA	1200	5.5
55	PE	PE Elbow 90 mm 90 deg (PE 100)	EA	1850	8.6
56	PE	PE Elbow 125 mm 45 deg (PE 100)	EA	360	2.3
57	PE	PE Elbow 125 mm 90 deg (PE 100)	EA	720	5.4
58	PE	PE Reducer 63 x 32 mm (PE 100)	EA	2850	2.1
59	PE	PE Reducer 90 x 63 mm (PE 100)	EA	3610	8.1
60	PE	PE Reducer 125 x 90 mm (PE 100)	EA	420	2.9
61	PE	PE Reducing Tee 90 x 63 mm (PE 100)	EA	120	1.0
62	PE	PE Reducing Tee 125 x 90 mm (PE 100)	EA	40	0.6
63	PE	PE Service Tee 32 x 20 mm (PE 100)	EA	210	0.3
64	PE	PE Service Tee 63 x 32 mm (PE 100)	EA	540	1.4
65	PE	PE Service Tee 90 x 32 mm (PE 100)	EA	520	1.9
66	PE	PE Service Tee 125 x 32 mm (PE 100)	EA	420	1.8
67	PE	PE Equal Tee 32 mm (PE 100)	EA	11130	8.6
68	PE	PE Equal Tee 63 mm (PE 100)	EA	550	1.2
69	PE	PE Equal Tee 90 mm (PE 100)	EA	1440	7.3
70	PE	PE Equal Tee 125 mm (PE 100)	EA	240	2.1
71	PE	Flex corr hose 1/2"x300mm(SS316L)PO SLV	EA	43500	77.2
72	PE	RCC Protection Tile 50 x 300 x 500 mm	EA	296586	338.1
73	PE	RCC Bottom Slab 150 x 300 x 350 mm	EA	37563	92.0
74	PE	RCC Bottom Slab 200 x 350 x 350 mm	EA	9486	29.9
75	PE	U-Shaped RCC Block 250 x 300 x 350 mm	EA	2991	8.1
76	PE	U-Shaped RCC Block 285 x 350 x 350 mm	EA	34571	112.4
77	PE	U-Shaped RCC Block 340 x 400 x 350 mm	EA	9486	47.7
78	PE	ERW Pipe (Heavy Class) -GI&PC- 1/2" NB	M	400000	355.1
79	PE	ERW Pipe (Heavy Class) -GI&PC- 3/4" NB	M	445800	503.2
80	PE	ERW Pipe (Heavy Class) -GI&PC- 1" NB	M	153900	251.7
81	PE	ERW Pipe (Heavy Class) -GI&PC- 1 1/2" NB	M	6480	17.4
82	PE	ERW Pipe (Heavy Class) -GI&PC- 2" NB	M	1620	6.7
83	PE	Copper Tube 12 mm OD x 0.6 mm	M	400000	388.0
84	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x261 MM	EA	30000	13.2
85	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x311 MM	EA	30000	15.3
86	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x362 MM	EA	30000	18.6
87	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x387 MM	EA	10000	6.7
88	PE	RPD METER, G 10	EA	10	5.1
89	PE	RPD METER, G 16	EA	10	5.1
90	PE	RPD METER, G 25	EA	15	7.1
91	PE	RPD METER, G 40	EA	20	9.5

92	PE	RPD METER, G 65	EA	20	10.9
93	PE	RPD METER, G 100	EA	5	2.9
94	PE	RPD METER, G 160	EA	5	4.3
95	PE	RPD METER, G 250	EA	5	7.1
96	PE	RPD METER, G 400	EA	5	10.3
97	PE	RPD METER, G 650	EA	2	11.3
98	PE	Br Adap set - Diaph GM G4 (Qmax 6scmh)	EA	36	0.1
99	PE	Br Adap set - Diaph GM G6 (Qmax 10scmh)	EA	90	0.3
100	PE	Br Adap set - Diaph GM G16 (Qmax 25scmh)	EA	226	1.5
101	PE	Br Adap set - Diaph GM G25 (Qmax 40scmh)	EA	59	0.6
102	PE	PR REG(25 SCMH) - 0.15 to 0.5 BAR	EA	20	1.2
103	PE	PR REG(40 SCMH) - 0.15 to 0.5 BAR	EA	20	1.4
104	PE	PR REG(65 SCMH) - 0.15 to 0.5 BAR	EA	20	1.5
105	Steel	PIPE, 3LPE COATED, SMLS, API 5L, GR.B,6.4MM WT, 4"	M	4000	72.0
106	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,8.18MM WT, 8"	M	4000	180
107	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.X60,7.1MM WT, 8"	M	40000	1400.0
108	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,7.1MM WT, 6"	M	6000	180.0
109	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,9.5MM WT,12"	M	0	0.0
110	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 3/4"	M	500	1.5
111	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 2"	M	500	3.8
112	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH40, 4"	M	500	10.0
113	Steel	PIPE,18" NB x 10.3 mm Thk. Conforming to API 5L, X-52	EA	3000	255.0
114	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,90DEG, 2"	EA	202	0.6
115	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 3"	EA	104	0.5
116	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 4"	EA	431	3.6
117	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 6"	EA	198	3.8
118	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 8"	EA	200	8.5
119	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,90DEG,12"	EA	24	1.4
120	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,45DEG, 2"	EA	100	0.2
121	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 3"	EA	100	0.4
122	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 4"	EA	116	0.9
123	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 6"	EA	49	0.9
124	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 8"	EA	20	0.3
125	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,45DEG,12"	EA	10	0.4
126	Steel	ELBOW,A234,GR.WPB,SCH40,3D,30DEG, 6"	EA	10	0.2
127	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,30DEG, 12"	EA	8	0.3
128	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 6"	EA	10	0.2
129	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 8"	EA	4	0.2
130	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,22.5DEG,12"	EA	6	0.5
131	Steel	ELBOW,A234,GR.WPB,SCH40,3D,15DEG, 8"	EA	8	0.3
132	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,15DEG, 12"	EA	8	0.5
133	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH80, 2"	EA	10	0.2
134	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 4"	EA	20	0.5
135	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 6"	EA	20	0.6
136	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X8"	EA	5	1.0
137	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X6"	EA	14	1.2
138	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X4"	EA	13	0.8
139	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X6"	EA	10	0.5
140	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X4"	EA	10	0.5
141	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X4"	EA	17	0.7
142	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X3"	EA	15	0.6
143	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,4"X3"	EA	15	0.5
144	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40X80,4"X2"	EA	16	0.5
145	Steel	REDUCER CON,A234,GR.WPB,SCH40,12"X8"	EA	12	1.2
146	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X6"	EA	36	1.0
147	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X4"	EA	20	0.3
148	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X4"	EA	39	0.7
149	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X3"	EA	20	0.2
150	Steel	REDUCER CON,A234,GR.WPB,SCH40,4"X3"	EA	20	0.2
151	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,4"X2"	EA	63	0.4
152	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,3"X2"	EA	20	0.1
153	Steel	WELDOLET,A105,SP 97,3000#,SCH80,8"X2"	EA	40	0.7

154	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X2"	EA	34	0.6
155	Steel	WELDOLET,A105,SP 97,3000#,SCH80,08"X3"	EA	20	0.4
156	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X3"	EA	40	0.8
157	Steel	WELDOLET,A105,SP 97,3000#,SCH80,18"X3"	EA	30	0.9
158	Steel	SOCKOLET,A 105,MSS SP 97,3000#,2"X3/4"	EA	80	0.5
159	Steel	SOCKOLET,A 105,MSS SP 97,3000#,3"X3/4"	EA	20	0.1
160	Steel	SOCKOLET,A 105,MSS SP 97,3000#,4"X3/4"	EA	100	0.6
161	Steel	SOCKOLET,A 105,MSS SP 97,3000#,6"X3/4"	EA	100	0.8
162	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 80, 2"	EA	200	2.0
163	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 3"	EA	20	0.2
164	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 4"	EA	50	1.5
165	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 6"	EA	12	0.7
166	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 8"	EA	12	1.2
167	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH STD, 12"	EA	6	1.5
168	Steel	FLANGE,A105,B16.5,BLRF,300#, 2"	EA	64	1.2
169	Steel	FLANGE,A105,B16.5,BLRF,300#, 3"	EA	40	0.8
170	Steel	FLANGE,A105,B16.5,BLRF,300#, 4"	EA	10	0.3
171	Steel	FLANGE,A105,B16.5,BLRF,300#, 6"	EA	13	0.7
172	Steel	FLANGE,A105,B16.5,BLRF,300#, 8"	EA	18	1.7
173	Steel	FLANGE,A105,B16.5,BLRF,300#, 12"	EA	9	1.1
174	Steel	FLANGE,A105,B16.5,SWRF,300#,SCH 80, 3/4"	EA	213	1.0
175	Steel	FLANGE,A105,B16.5,BLRF,300#, 3/4"	EA	223	1.3
176	Steel	ELBOW,WPHY 60,SCH40,1.5D,90DEG, 8"	EA	800	63.0
177	Steel	ELBOW,WPHY 60,SCH40,1.5D,45DEG, 8"	EA	350	18.4
178	Steel	ELBOW,WPHY 60,SCH 40,1.5D,30DEG, 8"	EA	70	3.4
179	Steel	ELBOW,WPHY 60,SCH40,1.5D,22.5DEG, 8"	EA	70	3.2
180	Steel	ELBOW,A234,WPHY 60,1.5D,15DEG, 8"	EA	130	3.7
181	Steel	TEE EQUAL,WPHY 60,B16.9, SCH40, 8"	EA	10	1.3
182	Steel	TEE RED,WPHY 60,B16.9, SCH40, 8"X6"	EA	30	3.6
183	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 4" NB	EA	600	2.5
184	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 6" NB	EA	2400	13.2
185	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 8" NB	EA	7920	58.6
186	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 12" NB	EA	1116	12.3
187	Steel	PE COATING REPAIR PATCH,PERP,425X10000X6	Roll	30	0.3
188	Steel	PE COATING REPAIR PATCH,PERP,50X3000X3	Roll	98	0.9
189	Steel	EPOXY BULK KIT Part A	L	549	6.3
190	Steel	EPOXY BULK KIT Part B	L	183	2.6
191	Steel	PAINT, EPOXY(R95)	L	200	3.4
192	Steel	ROCK SHIELD	M2	10000	8.0
193	Steel	Cold Applied Tape (Inner wrapper) (100 mm width)	M	20000	10.2
194	Steel	Cold Applied Tape (Outer wrapper)	M	20000	5.0
195	Steel	COLD APPLIED TAPE-PRIMER	L	200	1.0
196	Steel	COLD APPLIED TAPE-MASTIC	Kg	100	1.5
197	Steel	Dirax 18"	EA	300	26.4
198	Steel	Dirax 12"	EA	100	6.0
199	Steel	Dirax 8"	EA	250	12.5
200	Steel	Dirax 6"	EA	100	4.0
201	Steel	Dirax 4"	EA	100	3.5
202	Steel	Stud with two nuts, 5/8" X 4 1/2"	EA	3000	2.3
203	Steel	Stud with two nuts, 1/2"x 2 1/2"	EA	3000	1.5
204	Steel	Stud with two nuts, 3/4"x 5 1/4"	EA	2000	2.4
205	Steel	Stud with two nuts, 7/8"x 5 1/2"	EA	1000	2.0
206	Steel	GASKET, B 16.20, S/W,RF 300#, 12"	EA	100	0.4
207	Steel	GASKET, B 16.20, S/W,RF 300#, 18"	EA	20	0.1
208	Steel	GASKET, B 16.20, S/W,RF 300#, 2"	EA	200	0.2
209	Steel	GASKET, B 16.20, S/W,RF 300#, 3"	EA	100	0.1
210	Steel	GASKET, B 16.20, S/W,RF 300#, 3/4"	EA	200	0.2
211	Steel	GASKET, B 16.20, S/W,RF 300#, 4"	EA	100	0.3
212	Steel	GASKET, B 16.20, S/W,RF 300#, 6"	EA	100	0.3
213	Steel	GASKET, B 16.20, S/W,RF 300#, 8"	EA	100	0.4
214	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 12"	EA	4	20.0
215	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8"	EA	15	45.0
216	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 6"	EA	30	72.0

217	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 6"	EA	10	18.0
218	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"	EA	40	64.0
219	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 4"	EA	10	12.0
220	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 3"	EA	20	8.0
221	Steel	VALVE,BALL,API6D,TM,FE,300#, 2",	EA	40	11.2
222	Steel	VALVE,BALL,API6D,6FA,B/W END,300#, 2"	EA	70	14.0
223	Steel	VALVE, BALL, 3/4" #800 SW END	EA	200	6.0
224	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8" (X60)	EA	21	84.0
225	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"(X60)	EA	8	24.0
226	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM B, 8"(X60)	EA	10	55.0
227	CNG	Online Compressor (1200 / 950 SCMH)	EA	25	2243.8
228	CNG	Booster Compressor (22 / 37 kW)	EA	10	406.5
229	CNG	Dispenser - Car / Bus	EA	70	602
230	CNG	CNG Cascade - 3000 WL	EA	30	454.5
231	CNG	CNG Cascade - 4500 WL	EA	30	669.0
232	CNG	SS Tubes 1/2"	M	2400	13.2
233	CNG	SS Tubes 3/4"	M	3600	27.7
234	CNG	SS Equal Tee 1/2"	EA	160	2.4
235	CNG	SS Equal Tee 3/4"	EA	60	1.6
236	CNG	SS Reducing Tee 3/4" x 3/4" x 1/2"	EA	60	2.3
237	CNG	SS Reducing Tee 3/4" x 1/2" x 1/2"	EA	60	1.9
238	CNG	SS CONNECTOR,SS316,3/8" NPTF,1/2" OD	EA	20	0.2
239	CNG	SS CONNECTOR,SS316,1/4" NPTF,1/2" OD	EA	40	0.3
240	CNG	SS CONNECTOR,SS316,3/4" NPTM,1/2" OD	EA	40	0.3
241	CNG	SS CONNECTOR,SS316,3/4"NPTM,3/4" OD	EA	40	0.4
242	CNG	SS 2- way Ball Valve 1/2" OD Full Bore	EA	40	5.6
243	CNG	SS Non Return Valve 1/2" OD	EA	40	1.6
244	CNG	SS Non Return Valve 3/4" OD	EA	40	3.2
245	CNG	Quick release coupling	EA	20	0.8
246	CNG	SS UNION,SS316,STRAIGHT, 1/2" OD x 1/2" OD	EA	500	4.1
247	CNG	SS UNION,SS316,STRAIGHT, 3/4" OD x 3/4" OD	EA	700	10.7
248	CNG	SS UNION,SS316,REDUCER, 3/4" OD X 1/2" OD	EA	60	0.9
249	O&M	CNG Mass flow meters	EA	60	90.4
250	O&M	2-way / 3-way Valves for Dispensers	EA	900	110.0
251	O&M	Long Hoses for Dispensers	EA	100	10.0
252	O&M	Short (1 feet) Hoses for Dispensers	EA	400	14.0
253	O&M	O&M spares for Compressors & Dispensers		Lumpsum	1725.0

PROCUREMENT PLAN (PNG, CNG & STEEL) - MAHANGAR GAS LIMITED - FY 2021-22

Sr. No.	Category	MATERIAL DESCRIPTION	UOM	Quantity	Estimated value of procurement (Rs. Lakhs)
1	PE	Appliance Valve 1/4" with Nozzle 6.4 mm	EA	150000	187.1
2	PE	Meter Control Valve 1/2"	EA	240000	368.5
3	PE	Riser Isolation Valve 3/4"	EA	11087	28.7
4	PE	Riser Isolation Valve 1"	EA	7371	26.5
5	PE	Riser Isolation Valve 2"	EA	890	12.2
6	PE	Brass Ball Valve 1/4" (F/F)	EA	9927	13.1
7	PE	Brass Disconn Union 3/4" x 12 mm (St)	EA	150000	133.9
8	PE	Brass Disconn Union 1/2" x 12 mm (St)	EA	150000	133.9
9	PE	Brass Adaptor 1/4" M x 12 mm	EA	150000	26.0
10	PE	Meter Inlet Union 3/4 F x 3/4"	EA	150000	160.7
11	PE	Meter Outlet Union 3/4" x 12 mm	EA	150000	160.7
12	PE	Brass adap 1/2" x 1/2" - flex corr pipe	EA	60000	27.8
13	PE	Diaph GM G 1.6 (Qmax 2.5scmh)	EA	195000	1945.1
14	PE	Meter Regulator 3/4"-Prefitted	EA	150000	779.6
15	PE	SR Module assembly (25 scmh)	EA	1764	125.9
16	PE	SR Module assembly (40 scmh)	EA	773	71.0
17	PE	SR Module assembly (65 scmh)	EA	773	105.4

18	PE	Crimping Fitting 1" x 32 mm (LP)	EA	7350	10.3
19	PE	Crimping Fitting 3/4"x 32 mm (LP)	EA	10950	15.3
20	PE	Crimping Fitting 2" x 63 mm (LP)	EA	900	8.7
21	PE	GASKETS (STUB FLANGE) 2"-63 mm	EA	60	0.1
22	PE	PE ADAPTER(STUB FLANGE) 63 mm	EA	60	0.3
23	PE	PLATE FLANGE (STUB FLANGE) 2"-63mm	EA	60	0.5
24	PE	GASKETS (STUB FLANGE) 3" -90 mm	EA	150	0.4
25	PE	PE ADAPTER(STUB FLANGE) 90 mm	EA	150	2.9
26	PE	PLATE FLANGE (STUB FLANGE) 3"-90mm	EA	150	2.7
27	PE	GASKETS (STUB FLANGE) 4" -125 mm	EA	150	0.5
28	PE	PE ADAPTER(STUB FLANGE) 125 mm	EA	150	2.5
29	PE	PLATE FLANGE (STUB FLANGE) 4"-125mm	EA	150	3.3
30	PE	PE Stop-off Valve 63 mm	EA	390	26.5
31	PE	PE Stop-off Valve 90 mm	EA	435	42.1
32	PE	PE Stop-off Valve 125 mm	EA	510	63.7
33	PE	Rubber hose (8 mm NB), steel reinforced	M	225000	91.5
34	PE	Diaph GM G 4 (Qmax 6scmh)	EA	54	1.7
35	PE	Diaph GM G 6 (Qmax 10scmh)	EA	136	10.6
36	PE	Service Regulator 25 scmh	EA	529	13.7
37	PE	Service Regulator 40 scmh	EA	88	3.3
38	PE	Service Regulator 65 scmh	EA	93	7.4
39	PE	PE PIPE 32 mm (PE 100) SDR 11 (CU WIRE)	M	175000	77.4
40	PE	PE PIPE 63 mm (PE 100) SDR 11 (CU WIRE)	M	30500	40.6
41	PE	PE PIPE 90 mm (PE 100) SDR 11 (CU WIRE)	M	134200	380.6
42	PE	PE PIPE 125 mm (PE 100) SDR 11 (CU WIRE)	M	170200	912.1
43	PE	PE End Cap 32 mm (PE 100)	EA	1790	0.8
44	PE	PE End Cap 63 mm (PE 100)	EA	700	0.8
45	PE	PE End Caps 90 mm (PE 100)	EA	560	2.8
46	PE	PE End Cap 125 mm (PE 100)	EA	160	1.3
47	PE	PE Coupler (St) 32 mm (PE 100)	EA	17360	5.3
48	PE	PE Coupler (St) 63 mm (PE 100)	EA	1250	1.0
49	PE	PE Coupler (St) 90 mm (PE 100)	EA	5340	16.0
50	PE	PE Coupler (St) 125 mm (PE 100)	EA	5100	21.7
51	PE	PE Elbow 32 mm 90 deg (PE 100)	EA	3600	2.6
52	PE	PE Elbow 63 mm 45 deg (PE 100)	EA	750	1.5
53	PE	PE Elbow 63 mm 90 deg (PE 100)	EA	1100	2.1
54	PE	PE Elbow 90 mm 45 deg (PE 100)	EA	1330	6.4
55	PE	PE Elbow 90 mm 90 deg (PE 100)	EA	2050	10.0
56	PE	PE Elbow 125 mm 45 deg (PE 100)	EA	360	2.5
57	PE	PE Elbow 125 mm 90 deg (PE 100)	EA	720	5.7
58	PE	PE Reducer 63 x 32 mm (PE 100)	EA	3950	3.0
59	PE	PE Reducer 90 x 63 mm (PE 100)	EA	4000	9.5
60	PE	PE Reducer 125 x 90 mm (PE 100)	EA	860	6.2
61	PE	PE Reducing Tee 90 x 63 mm (PE 100)	EA	140	1.2
62	PE	PE Reducing Tee 125 x 90 mm (PE 100)	EA	40	0.7
63	PE	PE Service Tee 32 x 20 mm (PE 100)	EA	230	0.3
64	PE	PE Service Tee 63 x 32 mm (PE 100)	EA	540	1.4
65	PE	PE Service Tee 90 x 32 mm (PE 100)	EA	520	2.0
66	PE	PE Service Tee 125 x 32 mm (PE 100)	EA	850	3.9
67	PE	PE Equal Tee 32 mm (PE 100)	EA	12110	9.9
68	PE	PE Equal Tee 63 mm (PE 100)	EA	550	1.2
69	PE	PE Equal Tee 90 mm (PE 100)	EA	1440	7.6
70	PE	PE Equal Tee 125 mm (PE 100)	EA	240	2.2
71	PE	Flex corr hose 1/2"x300mm(SS316L)PO SLV	EA	65250	121.6
72	PE	RCC Protection Tile 50 x 300 x 500 mm	EA	444879	532.5
73	PE	RCC Bottom Slab 150 x 300 x 350 mm	EA	56344	144.9
74	PE	RCC Bottom Slab 200 x 350 x 350 mm	EA	14229	47.1
75	PE	U-Shaped RCC Block 250 x 300 x 350 mm	EA	4487	12.7
76	PE	U-Shaped RCC Block 285 x 350 x 350 mm	EA	51857	177.0
77	PE	U-Shaped RCC Block 340 x 400 x 350 mm	EA	14229	75.0
78	PE	ERW Pipe (Heavy Class) -GI&PC- 1/2" NB	M	600000	559.3
79	PE	ERW Pipe (Heavy Class) -GI&PC- 3/4" NB	M	668700	792.5
80	PE	ERW Pipe (Heavy Class) -GI&PC- 1" NB	M	230850	396.5

81	PE	ERW Pipe (Heavy Class) -GI&PC- 1 1/2" NB	M	9720	27.4
82	PE	ERW Pipe (Heavy Class) -GI&PC- 2" NB	M	2430	10.5
83	PE	Copper Tube 12 mm OD x 0.6 mm	M	600000	611.0
84	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x261 MM	EA	45000	20.8
85	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x311 MM	EA	45000	24.1
86	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x362 MM	EA	45000	29.3
87	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x387 MM	EA	15000	10.6
88	PE	RPD METER, G 10	EA	15	8.0
89	PE	RPD METER, G 16	EA	15	8.0
90	PE	RPD METER, G 25	EA	23	11.2
91	PE	RPD METER, G 40	EA	30	14.9
92	PE	RPD METER, G 65	EA	30	17.2
93	PE	RPD METER, G 100	EA	8	4.5
94	PE	RPD METER, G 160	EA	8	6.8
95	PE	RPD METER, G 250	EA	8	11.2
96	PE	RPD METER, G 400	EA	8	16.3
97	PE	RPD METER, G 650	EA	3	17.7
98	PE	Br Adap set - Diaph GM G4 (Qmax 6scmh)	EA	54	0.2
99	PE	Br Adap set - Diaph GM G6 (Qmax 10scmh)	EA	136	0.4
100	PE	Br Adap set - Diaph GM G16 (Qmax 25scmh)	EA	339	2.4
101	PE	Br Adap set - Diaph GM G25 (Qmax 40scmh)	EA	88	0.9
102	PE	PR REG(25 SCMH) - 0.15 to 0.5 BAR	EA	30	2.0
103	PE	PR REG(40 SCMH) - 0.15 to 0.5 BAR	EA	30	2.2
104	PE	PR REG(65 SCMH) - 0.15 to 0.5 BAR	EA	30	2.3
105	Steel	PIPE, 3LPE COATED, SMLS, API 5L, GR.B,6.4MM WT, 4"	M	4000	75.6
106	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,8.18MM WT, 8"	M	6000	284
107	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.X60,7.1MM WT, 8"	M	26000	955.5
108	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,7.1MM WT, 6"	M	4000	126.0
109	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,9.5MM WT,12"	M	3000	189.0
110	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 3/4"	M	500	1.6
111	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 2"	M	500	3.9
112	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH40, 4"	M	500	10.5
113	Steel	PIPE,18" NB x 10.3 mm Thk. Conforming to API 5L, X-52	EA	3000	267.8
114	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,90DEG, 2"	EA	222	0.7
115	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 3"	EA	114	0.5
116	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 4"	EA	474	4.2
117	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 6"	EA	218	4.4
118	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 8"	EA	220	9.8
119	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,90DEG,12"	EA	26	1.7
120	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,45DEG, 2"	EA	110	0.3
121	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 3"	EA	110	0.4
122	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 4"	EA	128	1.0
123	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 6"	EA	54	1.1
124	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 8"	EA	22	0.3
125	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,45DEG,12"	EA	11	0.5
126	Steel	ELBOW,A234,GR.WPB,SCH40,3D,30DEG, 6"	EA	11	0.2
127	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,30DEG, 12"	EA	9	0.4
128	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 6"	EA	11	0.2
129	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 8"	EA	4	0.2
130	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,22.5DEG,12"	EA	7	0.6
131	Steel	ELBOW,A234,GR.WPB,SCH40,3D,15DEG, 8"	EA	9	0.4
132	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,15DEG, 12"	EA	9	0.6
133	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH80, 2"	EA	11	0.2
134	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 4"	EA	22	0.6
135	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 6"	EA	22	0.7
136	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X8"	EA	6	1.1
137	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X6"	EA	15	1.4
138	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X4"	EA	14	0.9
139	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X6"	EA	11	0.6
140	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X4"	EA	11	0.5
141	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X4"	EA	19	0.8
142	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X3"	EA	17	0.7

143	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,4"X3"	EA	17	0.6
144	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40X80,4"X2"	EA	18	0.6
145	Steel	REDUCER CON,A234,GR.WPB,SCH40,12"X8"	EA	13	1.4
146	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X6"	EA	40	1.2
147	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X4"	EA	22	0.4
148	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X4"	EA	43	0.8
149	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X3"	EA	22	0.2
150	Steel	REDUCER CON,A234,GR.WPB,SCH40,4"X3"	EA	22	0.2
151	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,4"X2"	EA	69	0.5
152	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,3"X2"	EA	22	0.1
153	Steel	WELDOLET,A105,SP 97,3000#,SCH80,8"X2"	EA	44	0.8
154	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X2"	EA	37	0.7
155	Steel	WELDOLET,A105,SP 97,3000#,SCH80,08"X3"	EA	22	0.4
156	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X3"	EA	44	0.9
157	Steel	WELDOLET,A105,SP 97,3000#,SCH80,18"X3"	EA	33	1.0
158	Steel	SOCKOLET,A 105,MSS SP 97,3000#,2"X3/4"	EA	88	0.6
159	Steel	SOCKOLET,A 105,MSS SP 97,3000#,3"X3/4"	EA	22	0.1
160	Steel	SOCKOLET,A 105,MSS SP 97,3000#,4"X3/4"	EA	110	0.7
161	Steel	SOCKOLET,A 105,MSS SP 97,3000#,6"X3/4"	EA	110	0.9
162	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 80, 2"	EA	220	2.3
163	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 3"	EA	22	0.3
164	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 4"	EA	55	1.7
165	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 6"	EA	13	0.8
166	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 8"	EA	13	1.4
167	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH STD, 12"	EA	7	1.8
168	Steel	FLANGE,A105,B16.5,BLRF,300#, 2"	EA	70	1.3
169	Steel	FLANGE,A105,B16.5,BLRF,300#, 3"	EA	44	0.9
170	Steel	FLANGE,A105,B16.5,BLRF,300#, 4"	EA	11	0.4
171	Steel	FLANGE,A105,B16.5,BLRF,300#, 6"	EA	14	0.8
172	Steel	FLANGE,A105,B16.5,BLRF,300#, 8"	EA	20	1.9
173	Steel	FLANGE,A105,B16.5,BLRF,300#, 12"	EA	10	1.2
174	Steel	FLANGE,A105,B16.5,SWRF,300#,SCH 80, 3/4"	EA	234	1.1
175	Steel	FLANGE,A105,B16.5,BLRF,300#, 3/4"	EA	245	1.5
176	Steel	ELBOW,WPHY 60,SCH40,1.5D,90DEG, 8"	EA	600	49.6
177	Steel	ELBOW,WPHY 60,SCH40,1.5D,45DEG, 8"	EA	300	16.5
178	Steel	ELBOW,WPHY 60,SCH 40,1.5D,30DEG, 8"	EA	77	3.9
179	Steel	ELBOW,WPHY 60,SCH40,1.5D,22.5DEG, 8"	EA	77	3.7
180	Steel	ELBOW,A234,WPHY 60,1.5D,15DEG, 8"	EA	143	4.2
181	Steel	TEE EQUAL,WPHY 60,B16.9, SCH40, 8"	EA	11	1.5
182	Steel	TEE RED,WPHY 60,B16.9, SCH40, 8"X6"	EA	33	4.2
183	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 4" NB	EA	660	2.9
184	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 6" NB	EA	2640	15.2
185	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 8" NB	EA	8712	67.7
186	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 12" NB	EA	1228	14.2
187	Steel	PE COATING REPAIR PATCH,PERP,425X1000X6	Roll	33	0.4
188	Steel	PE COATING REPAIR PATCH,PERP,50X3000X3	Roll	108	1.0
189	Steel	EPOXY BULK KIT Part A	L	604	7.3
190	Steel	EPOXY BULK KIT Part B	L	201	3.0
191	Steel	PAINT, EPOXY(R95)	L	220	3.9
192	Steel	ROCK SHIELD	M2	11000	9.2
193	Steel	Cold Applied Tape (Inner wrapper) (100 mm width)	M	22000	11.8
194	Steel	Cold Applied Tape (Outer wrapper)	M	22000	5.8
195	Steel	COLD APPLIED TAPE-PRIMER	L	220	1.2
196	Steel	COLD APPLIED TAPE-MASTIC	Kg	110	1.7
197	Steel	Dirax 18"	EA	330	30.5
198	Steel	Dirax 12"	EA	110	6.9
199	Steel	Dirax 8"	EA	275	14.4
200	Steel	Dirax 6"	EA	110	4.6
201	Steel	Dirax 4"	EA	110	4.0
202	Steel	Stud with two nuts, 5/8" X 4 1/2"	EA	3300	2.6
203	Steel	Stud with two nuts, 1/2"x 2 1/2"	EA	3300	1.7
204	Steel	Stud with two nuts, 3/4"x 5 1/4"	EA	2200	2.8
205	Steel	Stud with two nuts, 7/8"x 5 1/2"	EA	1100	2.3

206	Steel	GASKET, B 16.20, S/W,RF 300#, 12"	EA	110	0.5
207	Steel	GASKET, B 16.20, S/W,RF 300#, 18"	EA	22	0.1
208	Steel	GASKET, B 16.20, S/W,RF 300#, 2"	EA	220	0.2
209	Steel	GASKET, B 16.20, S/W,RF 300#, 3"	EA	110	0.1
210	Steel	GASKET, B 16.20, S/W,RF 300#, 3/4"	EA	220	0.2
211	Steel	GASKET, B 16.20, S/W,RF 300#, 4"	EA	110	0.3
212	Steel	GASKET, B 16.20, S/W,RF 300#, 6"	EA	110	0.3
213	Steel	GASKET, B 16.20, S/W,RF 300#, 8"	EA	110	0.4
214	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 12"	EA	4	23.1
215	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8"	EA	17	52.0
216	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 6"	EA	33	83.2
217	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 6"	EA	11	20.8
218	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"	EA	44	73.9
219	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 4"	EA	11	13.9
220	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 3"	EA	22	9.2
221	Steel	VALVE,BALL,API6D,TM,FE,300#, 2",	EA	44	12.9
222	Steel	VALVE,BALL,API6D,6FA,B/W END,300#, 2"	EA	77	16.2
223	Steel	VALVE, BALL, 3/4" #800 SW END	EA	220	6.9
224	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8" (X60)	EA	23	97.0
225	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"(X60)	EA	9	27.7
226	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM B, 8"(X60)	EA	11	63.5
227	CNG	Online Compressor (1200 / 950 SCMH)	EA	28	2638.7
228	CNG	Booster Compressor (22 / 37 kW)	EA	12	512.2
229	CNG	Dispenser - Car / Bus	EA	90	812.7
230	CNG	CNG Cascade - 3000 WL	EA	33	524.9
231	CNG	CNG Cascade - 4500 WL	EA	33	772.7
232	CNG	SS Tubes 1/2"	M	2640	15.3
233	CNG	SS Tubes 3/4"	M	3960	31.9
234	CNG	SS Equal Tee 1/2"	EA	176	2.8
235	CNG	SS Equal Tee 3/4"	EA	66	1.9
236	CNG	SS Reducing Tee 3/4" x 3/4" x 1/2"	EA	66	2.6
237	CNG	SS Reducing Tee 3/4" x 1/2" x 1/2"	EA	66	2.2
238	CNG	SS CONNECTOR,SS316,3/8" NPTF,1/2" OD	EA	22	0.2
239	CNG	SS CONNECTOR,SS316,1/4" NPTF,1/2" OD	EA	44	0.3
240	CNG	SS CONNECTOR,SS316,3/4" NPTM,1/2" OD	EA	44	0.4
241	CNG	SS CONNECTOR,SS316,3/4"NPTM,3/4" OD	EA	44	0.5
242	CNG	SS 2- way Ball Valve 1/2" OD Full Bore	EA	44	6.5
243	CNG	SS Non Return Valve 1/2" OD	EA	44	1.8
244	CNG	SS Non Return Valve 3/4" OD	EA	44	3.7
245	CNG	Quick release coupling	EA	22	1.0
246	CNG	SS UNION,SS316,STRAIGHT, 1/2" OD x 1/2" OD	EA	550	4.7
247	CNG	SS UNION,SS316,STRAIGHT, 3/4" OD x 3/4" OD	EA	770	12.4
248	CNG	SS UNION,SS316,REDUCER, 3/4" OD X 1/2" OD	EA	66	1.0
249	O&M	CNG Mass flow meters	EA	63	99.4
250	O&M	2-way / 3-way Valves for Dispensers	EA	945	121.0
251	O&M	Long Hoses for Dispensers	EA	105	11.0
252	O&M	Short (1 feet) Hoses for Dispensers	EA	420	15.4
253	O&M	O&M spares for Compressors & Dispensers		Lumpsum	1897.5

PROCUREMENT PLAN (PNG, CNG & STEEL) - MAHANGAR GAS LIMITED - FY 2022-23

Sr. No.	Category	MATERIAL DESCRIPTION	UOM	Quantity	Estimated value of procurement (Rs. Lakhs)
1	PE	Appliance Valve 1/4" with Nozzle 6.4 mm	EA	165000	216.1
2	PE	Meter Control Valve 1/2"	EA	264000	425.6
3	PE	Riser Isolation Valve 3/4"	EA	12195	33.2
4	PE	Riser Isolation Valve 1"	EA	8108	30.6
5	PE	Riser Isolation Valve 2"	EA	978	14.1
6	PE	Brass Ball Valve 1/4" (F/F)	EA	10920	15.1

7	PE	Brass Disconn Union 3/4" x 12 mm (St)	EA	165000	154.6
8	PE	Brass Disconn Union 1/2" x 12 mm (St)	EA	165000	154.6
9	PE	Brass Adaptor 1/4" M x 12 mm	EA	165000	30.0
10	PE	Meter Inlet Union 3/4 F x 3/4"	EA	165000	185.6
11	PE	Meter Outlet Union 3/4" x 12 mm	EA	165000	185.6
12	PE	Brass adap 1/2" x 1/2" - flex corr pipe	EA	66000	32.1
13	PE	Diaph GM G 1.6 (Qmax 2.5scmh)	EA	214500	2246.6
14	PE	Meter Regulator 3/4"-Prefitted	EA	165000	900.5
15	PE	SR Module assembly (25 scmh)	EA	1940	145.5
16	PE	SR Module assembly (40 scmh)	EA	850	82.0
17	PE	SR Module assembly (65 scmh)	EA	850	121.8
18	PE	Crimping Fitting 1" x 32 mm (LP)	EA	8085	11.9
19	PE	Crimping Fitting 3/4"x 32 mm (LP)	EA	12045	17.7
20	PE	Crimping Fitting 2" x 63 mm (LP)	EA	990	10.1
21	PE	GASKETS (STUB FLANGE) 2"-63 mm	EA	66	0.2
22	PE	PE ADAPTER(STUB FLANGE) 63 mm	EA	66	0.3
23	PE	PLATE FLANGE (STUB FLANGE) 2"-63mm	EA	66	0.6
24	PE	GASKETS (STUB FLANGE) 3" -90 mm	EA	165	0.5
25	PE	PE ADAPTER(STUB FLANGE) 90 mm	EA	165	3.4
26	PE	PLATE FLANGE (STUB FLANGE) 3"-90mm	EA	165	3.1
27	PE	GASKETS (STUB FLANGE) 4" -125 mm	EA	165	0.6
28	PE	PE ADAPTER(STUB FLANGE) 125 mm	EA	165	2.9
29	PE	PLATE FLANGE (STUB FLANGE) 4"-125mm	EA	165	3.8
30	PE	PE Stop-off Valve 63 mm	EA	429	30.7
31	PE	PE Stop-off Valve 90 mm	EA	479	48.7
32	PE	PE Stop-off Valve 125 mm	EA	561	73.6
33	PE	Rubber hose (8 mm NB), steel reinforced	M	247500	105.7
34	PE	Diaph GM G 4 (Qmax 6scmh)	EA	60	1.9
35	PE	Diaph GM G 6 (Qmax 10scmh)	EA	149	12.2
36	PE	Service Regulator 25 scmh	EA	582	15.8
37	PE	Service Regulator 40 scmh	EA	97	3.8
38	PE	Service Regulator 65 scmh	EA	102	8.5
39	PE	PE PIPE 32 mm (PE 100) SDR 11 (CU WIRE)	M	192500	89.4
40	PE	PE PIPE 63 mm (PE 100) SDR 11 (CU WIRE)	M	33550	46.9
41	PE	PE PIPE 90 mm (PE 100) SDR 11 (CU WIRE)	M	147620	439.6
42	PE	PE PIPE 125 mm (PE 100) SDR 11 (CU WIRE)	M	187220	1053.5
43	PE	PE End Cap 32 mm (PE 100)	EA	1969	1.0
44	PE	PE End Cap 63 mm (PE 100)	EA	770	0.9
45	PE	PE End Caps 90 mm (PE 100)	EA	616	3.2
46	PE	PE End Cap 125 mm (PE 100)	EA	176	1.5
47	PE	PE Coupler (St) 32 mm (PE 100)	EA	19096	6.1
48	PE	PE Coupler (St) 63 mm (PE 100)	EA	1375	1.1
49	PE	PE Coupler (St) 90 mm (PE 100)	EA	5874	18.5
50	PE	PE Coupler (St) 125 mm (PE 100)	EA	5610	25.0
51	PE	PE Elbow 32 mm 90 deg (PE 100)	EA	3960	3.1
52	PE	PE Elbow 63 mm 45 deg (PE 100)	EA	825	1.7
53	PE	PE Elbow 63 mm 90 deg (PE 100)	EA	1210	2.4
54	PE	PE Elbow 90 mm 45 deg (PE 100)	EA	1463	7.3
55	PE	PE Elbow 90 mm 90 deg (PE 100)	EA	2255	11.6
56	PE	PE Elbow 125 mm 45 deg (PE 100)	EA	396	2.8
57	PE	PE Elbow 125 mm 90 deg (PE 100)	EA	792	6.5
58	PE	PE Reducer 63 x 32 mm (PE 100)	EA	4345	3.4
59	PE	PE Reducer 90 x 63 mm (PE 100)	EA	4400	10.9
60	PE	PE Reducer 125 x 90 mm (PE 100)	EA	946	7.2
61	PE	PE Reducing Tee 90 x 63 mm (PE 100)	EA	154	1.4
62	PE	PE Reducing Tee 125 x 90 mm (PE 100)	EA	44	0.8
63	PE	PE Service Tee 32 x 20 mm (PE 100)	EA	253	0.4
64	PE	PE Service Tee 63 x 32 mm (PE 100)	EA	594	1.6
65	PE	PE Service Tee 90 x 32 mm (PE 100)	EA	572	2.3
66	PE	PE Service Tee 125 x 32 mm (PE 100)	EA	935	4.5
67	PE	PE Equal Tee 32 mm (PE 100)	EA	13321	11.4
68	PE	PE Equal Tee 63 mm (PE 100)	EA	605	1.4
69	PE	PE Equal Tee 90 mm (PE 100)	EA	1584	8.8

70	PE	PE Equal Tee 125 mm (PE 100)	EA	264	2.6
71	PE	Flex corr hose 1/2"x300mm(SS316L)PO SLV	EA	71775	140.4
72	PE	RCC Protection Tile 50 x 300 x 500 mm	EA	489367	615.1
73	PE	RCC Bottom Slab 150 x 300 x 350 mm	EA	61979	167.4
74	PE	RCC Bottom Slab 200 x 350 x 350 mm	EA	15651	54.4
75	PE	U-Shaped RCC Block 250 x 300 x 350 mm	EA	4936	14.7
76	PE	U-Shaped RCC Block 285 x 350 x 350 mm	EA	57043	204.4
77	PE	U-Shaped RCC Block 340 x 400 x 350 mm	EA	15651	86.7
78	PE	ERW Pipe (Heavy Class) -GI&PC- 1/2" NB	M	660000	646.0
79	PE	ERW Pipe (Heavy Class) -GI&PC- 3/4" NB	M	735570	915.3
80	PE	ERW Pipe (Heavy Class) -GI&PC- 1" NB	M	253935	457.9
81	PE	ERW Pipe (Heavy Class) -GI&PC- 1 1/2" NB	M	10692	31.7
82	PE	ERW Pipe (Heavy Class) -GI&PC- 2" NB	M	2673	12.1
83	PE	Copper Tube 12 mm OD x 0.6 mm	M	660000	705.7
84	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x261 MM	EA	49500	24.0
85	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x311 MM	EA	49500	27.8
86	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x362 MM	EA	49500	33.8
87	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x387 MM	EA	16500	12.2
88	PE	RPD METER, G 10	EA	17	9.3
89	PE	RPD METER, G 16	EA	17	9.3
90	PE	RPD METER, G 25	EA	25	12.9
91	PE	RPD METER, G 40	EA	33	17.2
92	PE	RPD METER, G 65	EA	33	19.9
93	PE	RPD METER, G 100	EA	8	5.3
94	PE	RPD METER, G 160	EA	8	7.8
95	PE	RPD METER, G 250	EA	8	12.9
96	PE	RPD METER, G 400	EA	8	18.8
97	PE	RPD METER, G 650	EA	3	20.5
98	PE	Br Adap set - Diaph GM G4 (Qmax 6scmh)	EA	60	0.2
99	PE	Br Adap set - Diaph GM G6 (Qmax 10scmh)	EA	149	0.5
100	PE	Br Adap set - Diaph GM G16 (Qmax 25scmh)	EA	373	2.7
101	PE	Br Adap set - Diaph GM G25 (Qmax 40scmh)	EA	97	1.1
102	PE	PR REG(25 SCMH) - 0.15 to 0.5 BAR	EA	33	2.3
103	PE	PR REG(40 SCMH) - 0.15 to 0.5 BAR	EA	33	2.6
104	PE	PR REG(65 SCMH) - 0.15 to 0.5 BAR	EA	33	2.6
105	Steel	PIPE, 3LPE COATED, SMLS, API 5L, GR.B,6.4MM WT, 4"	M	4000	79.4
106	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,8.18MM WT, 8"	M	6500	322
107	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.X60,7.1MM WT, 8"	M	2000	77.2
108	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,7.1MM WT, 6"	M	4500	148.8
109	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,9.5MM WT,12"	M	4000	264.6
110	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 3/4"	M	500	1.7
111	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH80, 2"	M	500	4.1
112	Steel	PIPE,BARE,SMLS,API5L,GR.B,SCH40, 4"	M	500	11.0
113	Steel	PIPE,18" NB x 10.3 mm Thk. Conforming to API 5L, X-52	EA	0	0.0
114	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,90DEG, 2"	EA	244	0.8
115	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 3"	EA	126	0.6
116	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 4"	EA	522	4.8
117	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 6"	EA	239	5.1
118	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 8"	EA	242	11.4
119	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,90DEG,12"	EA	29	1.9
120	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,45DEG, 2"	EA	121	0.3
121	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 3"	EA	121	0.5
122	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 4"	EA	140	1.2
123	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 6"	EA	60	1.3
124	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 8"	EA	25	0.4
125	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,45DEG,12"	EA	12	0.6
126	Steel	ELBOW,A234,GR.WPB,SCH40,3D,30DEG, 6"	EA	12	0.3
127	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,30DEG, 12"	EA	10	0.4
128	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 6"	EA	12	0.3
129	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 8"	EA	5	0.2
130	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,22.5DEG,12"	EA	7	0.7
131	Steel	ELBOW,A234,GR.WPB,SCH40,3D,15DEG, 8"	EA	10	0.4

132	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,15DEG, 12"	EA	10	0.6
133	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH80, 2"	EA	12	0.3
134	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 4"	EA	24	0.6
135	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 6"	EA	24	0.9
136	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X8"	EA	6	1.3
137	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X6"	EA	17	1.7
138	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X4"	EA	16	1.0
139	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X6"	EA	12	0.7
140	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X4"	EA	12	0.6
141	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X4"	EA	21	0.9
142	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X3"	EA	18	0.8
143	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,4"X3"	EA	18	0.7
144	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40X80,4"X2"	EA	19	0.6
145	Steel	REDUCER CON,A234,GR.WPB,SCH40,12"X8"	EA	15	1.6
146	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X6"	EA	44	1.4
147	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X4"	EA	24	0.4
148	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X4"	EA	47	1.0
149	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X3"	EA	24	0.2
150	Steel	REDUCER CON,A234,GR.WPB,SCH40,4"X3"	EA	24	0.2
151	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,4"X2"	EA	76	0.6
152	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,3"X2"	EA	24	0.2
153	Steel	WELDOLET,A105,SP 97,3000#,SCH80,8"X2"	EA	48	0.9
154	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X2"	EA	41	0.8
155	Steel	WELDOLET,A105,SP 97,3000#,SCH80,08"X3"	EA	24	0.5
156	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X3"	EA	48	1.1
157	Steel	WELDOLET,A105,SP 97,3000#,SCH80,18"X3"	EA	36	1.2
158	Steel	SOCKOLET,A 105,MSS SP 97,3000#,2"X3/4"	EA	97	0.7
159	Steel	SOCKOLET,A 105,MSS SP 97,3000#,3"X3/4"	EA	24	0.2
160	Steel	SOCKOLET,A 105,MSS SP 97,3000#,4"X3/4"	EA	121	0.8
161	Steel	SOCKOLET,A 105,MSS SP 97,3000#,6"X3/4"	EA	121	1.1
162	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 80, 2"	EA	242	2.7
163	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 3"	EA	24	0.3
164	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 4"	EA	61	1.9
165	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 6"	EA	15	0.9
166	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 8"	EA	15	1.6
167	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH STD, 12"	EA	7	2.0
168	Steel	FLANGE,A105,B16.5,BLRF,300#, 2"	EA	77	1.5
169	Steel	FLANGE,A105,B16.5,BLRF,300#, 3"	EA	48	1.1
170	Steel	FLANGE,A105,B16.5,BLRF,300#, 4"	EA	12	0.4
171	Steel	FLANGE,A105,B16.5,BLRF,300#, 6"	EA	16	0.9
172	Steel	FLANGE,A105,B16.5,BLRF,300#, 8"	EA	22	2.2
173	Steel	FLANGE,A105,B16.5,BLRF,300#, 12"	EA	11	1.4
174	Steel	FLANGE,A105,B16.5,SWRF,300#,SCH 80, 3/4"	EA	258	1.3
175	Steel	FLANGE,A105,B16.5,BLRF,300#, 3/4"	EA	270	1.8
176	Steel	ELBOW,WPHY 60,SCH40,1.5D,90DEG, 8"	EA	100	8.7
177	Steel	ELBOW,WPHY 60,SCH40,1.5D,45DEG, 8"	EA	100	5.8
178	Steel	ELBOW,WPHY 60,SCH 40,1.5D,30DEG, 8"	EA	50	2.6
179	Steel	ELBOW,WPHY 60,SCH40,1.5D,22.5DEG, 8"	EA	50	2.5
180	Steel	ELBOW,A234,WPHY 60,1.5D,15DEG, 8"	EA	100	3.1
181	Steel	TEE EQUAL,WPHY 60,B16.9, SCH40, 8"	EA	12	1.7
182	Steel	TEE RED,WPHY 60,B16.9, SCH40, 8"X6"	EA	36	4.8
183	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 4" NB	EA	726	3.4
184	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 6" NB	EA	2904	17.6
185	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 8" NB	EA	9583	78.2
186	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 12" NB	EA	1350	16.4
187	Steel	PE COATING REPAIR PATCH,PERP,425X1000X6	Roll	36	0.4
188	Steel	PE COATING REPAIR PATCH,PERP,50X300X3	Roll	119	1.2
189	Steel	EPOXY BULK KIT Part A	L	664	8.4
190	Steel	EPOXY BULK KIT Part B	L	221	3.4
191	Steel	PAINT, EPOXY(R95)	L	242	4.5
192	Steel	ROCK SHIELD	M2	12100	10.7
193	Steel	Cold Applied Tape (Inner wrapper) (100 mm width)	M	24200	13.6
194	Steel	Cold Applied Tape (Outer wrapper)	M	24200	6.7

195	Steel	COLD APPLIED TAPE-PRIMER	L	242	1.3
196	Steel	COLD APPLIED TAPE-MASTIC	Kg	121	2.0
197	Steel	Dirax 18"	EA	363	35.2
198	Steel	Dirax 12"	EA	121	8.0
199	Steel	Dirax 8"	EA	303	16.7
200	Steel	Dirax 6"	EA	121	5.3
201	Steel	Dirax 4"	EA	121	4.7
202	Steel	Stud with two nuts, 5/8" X 4 1/2"	EA	3630	3.0
203	Steel	Stud with two nuts, 1/2"x 2 1/2"	EA	3630	2.0
204	Steel	Stud with two nuts, 3/4"x 5 1/4"	EA	2420	3.2
205	Steel	Stud with two nuts, 7/8"x 5 1/2"	EA	1210	2.7
206	Steel	GASKET, B 16.20, S/W,RF 300#, 12"	EA	121	0.5
207	Steel	GASKET, B 16.20, S/W,RF 300#, 18"	EA	24	0.2
208	Steel	GASKET, B 16.20, S/W,RF 300#, 2"	EA	242	0.3
209	Steel	GASKET, B 16.20, S/W,RF 300#, 3"	EA	121	0.2
210	Steel	GASKET, B 16.20, S/W,RF 300#, 3/4"	EA	242	0.2
211	Steel	GASKET, B 16.20, S/W,RF 300#, 4"	EA	121	0.3
212	Steel	GASKET, B 16.20, S/W,RF 300#, 6"	EA	121	0.4
213	Steel	GASKET, B 16.20, S/W,RF 300#, 8"	EA	121	0.5
214	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 12"	EA	5	26.7
215	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8"	EA	18	60.0
216	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 6"	EA	36	96.0
217	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 6"	EA	12	24.0
218	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"	EA	48	85.4
219	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 4"	EA	12	16.0
220	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 3"	EA	24	10.7
221	Steel	VALVE,BALL,API6D,TM,FE,300#, 2",	EA	48	14.9
222	Steel	VALVE,BALL,API6D,6FA,B/W END,300#, 2"	EA	85	18.7
223	Steel	VALVE, BALL, 3/4" #800 SW END	EA	242	8.0
224	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8" (X60)	EA	25	112.1
225	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"(X60)	EA	10	32.0
226	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM B, 8"(X60)	EA	12	73.4
227	CNG	Online Compressor (1200 / 950 SCMH)	EA	31	3067.4
228	CNG	Booster Compressor (22 / 37 kW)	EA	14	627.4
229	CNG	Dispenser - Car / Bus	EA	110	1042.965
230	CNG	CNG Cascade - 3000 WL	EA	36	601.3
231	CNG	CNG Cascade - 4500 WL	EA	36	885.1
232	CNG	SS Tubes 1/2"	M	2904	17.6
233	CNG	SS Tubes 3/4"	M	4356	36.9
234	CNG	SS Equal Tee 1/2"	EA	193.6	3.2
235	CNG	SS Equal Tee 3/4"	EA	72.6	2.2
236	CNG	SS Reducing Tee 3/4" x 3/4" x 1/2"	EA	72.6	3.0
237	CNG	SS Reducing Tee 3/4" x 1/2" x 1/2"	EA	72.6	2.6
238	CNG	SS CONNECTOR,SS316,3/8" NPTF,1/2" OD	EA	24.2	0.2
239	CNG	SS CONNECTOR,SS316,1/4" NPTF,1/2" OD	EA	48.4	0.4
240	CNG	SS CONNECTOR,SS316,3/4" NPTM,1/2" OD	EA	48.4	0.5
241	CNG	SS CONNECTOR,SS316,3/4"NPTM,3/4" OD	EA	48.4	0.5
242	CNG	SS 2- way Ball Valve 1/2" OD Full Bore	EA	48.4	7.5
243	CNG	SS Non Return Valve 1/2" OD	EA	48.4	2.1
244	CNG	SS Non Return Valve 3/4" OD	EA	48.4	4.2
245	CNG	Quick release coupling	EA	24.2	1.1
246	CNG	SS UNION,SS316,STRAIGHT, 1/2" OD x 1/2" OD	EA	605	5.5
247	CNG	SS UNION,SS316,STRAIGHT, 3/4" OD x 3/4" OD	EA	847	14.3
248	CNG	SS UNION,SS316,REDUCER, 3/4" OD X 1/2" OD	EA	72.6	1.2
249	O&M	CNG Mass flow meters	EA	66	110.3
250	O&M	2-way / 3-way Valves for Dispensers	EA	992	134.3
251	O&M	Long Hoses for Dispensers	EA	110.25	12.2
252	O&M	Short (1 feet) Hoses for Dispensers	EA	441	17.0
253	O&M	O&M spares for Compressors & Dispensers		Lumpsum	2106.2

PROCUREMENT PLAN (PNG, CNG & STEEL) - MAHANGAR GAS LIMITED - FY 2023-24

Sr. No.	Category	MATERIAL DESCRIPTION	UOM	Quantity	Estimated value of procurement (Rs. Lakhs)
1	PE	Appliance Valve 1/4" with Nozzle 6.4 mm	EA	181500	249.6
2	PE	Meter Control Valve 1/2"	EA	290400	491.6
3	PE	Riser Isolation Valve 3/4"	EA	13415	38.3
4	PE	Riser Isolation Valve 1"	EA	8919	35.4
5	PE	Riser Isolation Valve 2"	EA	1076	16.2
6	PE	Brass Ball Valve 1/4" (F/F)	EA	12012	17.4
7	PE	Brass Disconn Union 3/4" x 12 mm (St)	EA	181500	178.6
8	PE	Brass Disconn Union 1/2" x 12 mm (St)	EA	181500	178.6
9	PE	Brass Adaptor 1/4" M x 12 mm	EA	181500	34.7
10	PE	Meter Inlet Union 3/4 F x 3/4"	EA	181500	214.3
11	PE	Meter Outlet Union 3/4" x 12 mm	EA	181500	214.3
12	PE	Brass adap 1/2" x 1/2" - flex corr pipe	EA	72600	37.1
13	PE	Diaph GM G 1.6 (Qmax 2.5scmh)	EA	235950	2594.8
14	PE	Meter Regulator 3/4"-Prefitted	EA	181500	1040.0
15	PE	SR Module assembly (25 scmh)	EA	2134	168.0
16	PE	SR Module assembly (40 scmh)	EA	935	94.7
17	PE	SR Module assembly (65 scmh)	EA	935	140.7
18	PE	Crimping Fitting 1" x 32 mm (LP)	EA	8894	13.7
19	PE	Crimping Fitting 3/4"x 32 mm (LP)	EA	13250	20.5
20	PE	Crimping Fitting 2" x 63 mm (LP)	EA	1089	11.6
21	PE	GASKETS (STUB FLANGE) 2"-63 mm	EA	73	0.2
22	PE	PE ADAPTER(STUB FLANGE) 63 mm	EA	73	0.4
23	PE	PLATE FLANGE (STUB FLANGE) 2"-63mm	EA	73	0.7
24	PE	GASKETS (STUB FLANGE) 3" -90 mm	EA	182	0.6
25	PE	PE ADAPTER(STUB FLANGE) 90 mm	EA	182	3.9
26	PE	PLATE FLANGE (STUB FLANGE) 3"-90mm	EA	182	3.6
27	PE	GASKETS (STUB FLANGE) 4" -125 mm	EA	182	0.7
28	PE	PE ADAPTER(STUB FLANGE) 125 mm	EA	182	3.4
29	PE	PLATE FLANGE (STUB FLANGE) 4"-125mm	EA	182	4.4
30	PE	PE Stop-off Valve 63 mm	EA	472	35.4
31	PE	PE Stop-off Valve 90 mm	EA	526	56.2
32	PE	PE Stop-off Valve 125 mm	EA	617	85.0
33	PE	Rubber hose (8 mm NB), steel reinforced	M	272250	122.1
34	PE	Diaph GM G 4 (Qmax 6scmh)	EA	66	2.2
35	PE	Diaph GM G 6 (Qmax 10scmh)	EA	164	14.1
36	PE	Service Regulator 25 scmh	EA	640	18.2
37	PE	Service Regulator 40 scmh	EA	107	4.4
38	PE	Service Regulator 65 scmh	EA	112	9.8
39	PE	PE PIPE 32 mm (PE 100) SDR 11 (CU WIRE)	M	211750	103.2
40	PE	PE PIPE 63 mm (PE 100) SDR 11 (CU WIRE)	M	36905	54.2
41	PE	PE PIPE 90 mm (PE 100) SDR 11 (CU WIRE)	M	162382	507.7
42	PE	PE PIPE 125 mm (PE 100) SDR 11 (CU WIRE)	M	205942	1216.8
43	PE	PE End Cap 32 mm (PE 100)	EA	2166	1.1
44	PE	PE End Cap 63 mm (PE 100)	EA	847	1.1
45	PE	PE End Caps 90 mm (PE 100)	EA	678	3.7
46	PE	PE End Cap 125 mm (PE 100)	EA	194	1.7
47	PE	PE Coupler (St) 32 mm (PE 100)	EA	21006	7.1
48	PE	PE Coupler (St) 63 mm (PE 100)	EA	1513	1.3
49	PE	PE Coupler (St) 90 mm (PE 100)	EA	6461	21.3
50	PE	PE Coupler (St) 125 mm (PE 100)	EA	6171	28.9
51	PE	PE Elbow 32 mm 90 deg (PE 100)	EA	4356	3.5
52	PE	PE Elbow 63 mm 45 deg (PE 100)	EA	908	1.9
53	PE	PE Elbow 63 mm 90 deg (PE 100)	EA	1331	2.8
54	PE	PE Elbow 90 mm 45 deg (PE 100)	EA	1609	8.5
55	PE	PE Elbow 90 mm 90 deg (PE 100)	EA	2481	13.4
56	PE	PE Elbow 125 mm 45 deg (PE 100)	EA	436	3.3
57	PE	PE Elbow 125 mm 90 deg (PE 100)	EA	871	7.6
58	PE	PE Reducer 63 x 32 mm (PE 100)	EA	4780	4.0

59	PE	PE Reducer 90 x 63 mm (PE 100)	EA	4840	12.6
60	PE	PE Reducer 125 x 90 mm (PE 100)	EA	1041	8.3
61	PE	PE Reducing Tee 90 x 63 mm (PE 100)	EA	169	1.6
62	PE	PE Reducing Tee 125 x 90 mm (PE 100)	EA	48	0.9
63	PE	PE Service Tee 32 x 20 mm (PE 100)	EA	278	0.4
64	PE	PE Service Tee 63 x 32 mm (PE 100)	EA	653	1.9
65	PE	PE Service Tee 90 x 32 mm (PE 100)	EA	629	2.7
66	PE	PE Service Tee 125 x 32 mm (PE 100)	EA	1029	5.2
67	PE	PE Equal Tee 32 mm (PE 100)	EA	14653	13.2
68	PE	PE Equal Tee 63 mm (PE 100)	EA	666	1.7
69	PE	PE Equal Tee 90 mm (PE 100)	EA	1742	10.2
70	PE	PE Equal Tee 125 mm (PE 100)	EA	290	3.0
71	PE	Flex corr hose 1/2"x300mm(SS316L)PO SLV	EA	78953	162.2
72	PE	RCC Protection Tile 50 x 300 x 500 mm	EA	538304	710.4
73	PE	RCC Bottom Slab 150 x 300 x 350 mm	EA	68177	193.4
74	PE	RCC Bottom Slab 200 x 350 x 350 mm	EA	17217	62.8
75	PE	U-Shaped RCC Block 250 x 300 x 350 mm	EA	5429	17.0
76	PE	U-Shaped RCC Block 285 x 350 x 350 mm	EA	62747	236.1
77	PE	U-Shaped RCC Block 340 x 400 x 350 mm	EA	17217	100.1
78	PE	ERW Pipe (Heavy Class) -GI&PC- 1/2" NB	M	726000	746.1
79	PE	ERW Pipe (Heavy Class) -GI&PC- 3/4" NB	M	809127	1057.2
80	PE	ERW Pipe (Heavy Class) -GI&PC- 1" NB	M	279329	528.9
81	PE	ERW Pipe (Heavy Class) -GI&PC- 1 1/2" NB	M	11761	36.6
82	PE	ERW Pipe (Heavy Class) -GI&PC- 2" NB	M	2940	14.0
83	PE	Copper Tube 12 mm OD x 0.6 mm	M	726000	815.1
84	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x261 MM	EA	54450	27.7
85	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x311 MM	EA	54450	32.1
86	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x362 MM	EA	54450	39.0
87	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x387 MM	EA	18150	14.1
88	PE	RPD METER, G 10	EA	18	10.7
89	PE	RPD METER, G 16	EA	18	10.7
90	PE	RPD METER, G 25	EA	27	14.9
91	PE	RPD METER, G 40	EA	36	19.9
92	PE	RPD METER, G 65	EA	36	22.9
93	PE	RPD METER, G 100	EA	9	6.1
94	PE	RPD METER, G 160	EA	9	9.0
95	PE	RPD METER, G 250	EA	9	14.9
96	PE	RPD METER, G 400	EA	9	21.7
97	PE	RPD METER, G 650	EA	4	23.6
98	PE	Br Adap set - Diaph GM G4 (Qmax 6scmh)	EA	66	0.2
99	PE	Br Adap set - Diaph GM G6 (Qmax 10scmh)	EA	164	0.6
100	PE	Br Adap set - Diaph GM G16 (Qmax 25scmh)	EA	410	3.2
101	PE	Br Adap set - Diaph GM G25 (Qmax 40scmh)	EA	107	1.2
102	PE	PR REG(25 SCMH) - 0.15 to 0.5 BAR	EA	36	2.6
103	PE	PR REG(40 SCMH) - 0.15 to 0.5 BAR	EA	36	3.0
104	PE	PR REG(65 SCMH) - 0.15 to 0.5 BAR	EA	36	3.1
105	Steel	PIPE, 3LPE COATED, SMLS, API 5L, GR.B,6.4MM WT, 4"	M	4000	83.3
106	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,8.18MM WT, 8"	M	7000	365
107	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.X60,7.1MM WT, 8"	M	2000	81.0
108	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,7.1MM WT, 6"	M	5000	173.6
109	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,9.5MM WT,12"	M	4500	312.6
110	Steel	PIPE,BARE,SMLLES,API5L,GR.B,SCH80, 3/4"	M	500	1.7
111	Steel	PIPE,BARE,SMLLES,API5L,GR.B,SCH80, 2"	M	500	4.3
112	Steel	PIPE,BARE,SMLLES,API5L,GR.B,SCH40, 4"	M	500	11.6
113	Steel	PIPE,18" NB x 10.3 mm Thk. Conforming to API 5L, X-52	EA	0	0.0
114	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,90DEG, 2"	EA	269	0.9
115	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 3"	EA	138	0.7
116	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 4"	EA	574	5.6
117	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 6"	EA	263	5.9
118	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 8"	EA	266	13.1
119	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,90DEG,12"	EA	32	2.2
120	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,45DEG, 2"	EA	133	0.4

121	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 3"	EA	133	0.6
122	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 4"	EA	154	1.3
123	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 6"	EA	66	1.5
124	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 8"	EA	27	0.5
125	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,45DEG,12"	EA	13	0.7
126	Steel	ELBOW,A234,GR.WPB,SCH40,3D,30DEG, 6"	EA	13	0.3
127	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,30DEG, 12"	EA	11	0.5
128	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 6"	EA	13	0.3
129	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 8"	EA	5	0.3
130	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,22.5DEG,12"	EA	8	0.8
131	Steel	ELBOW,A234,GR.WPB,SCH40,3D,15DEG, 8"	EA	11	0.5
132	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,15DEG, 12"	EA	11	0.7
133	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH80, 2"	EA	13	0.3
134	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 4"	EA	27	0.7
135	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 6"	EA	27	1.0
136	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X8"	EA	7	1.5
137	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X6"	EA	19	1.9
138	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X4"	EA	17	1.2
139	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X6"	EA	13	0.8
140	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X4"	EA	13	0.7
141	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X4"	EA	23	1.0
142	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X3"	EA	20	0.9
143	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,4"X3"	EA	20	0.8
144	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40X80,4"X2"	EA	21	0.7
145	Steel	REDUCER CON,A234,GR.WPB,SCH40,12"X8"	EA	16	1.8
146	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X6"	EA	48	1.6
147	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X4"	EA	27	0.5
148	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X4"	EA	52	1.1
149	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X3"	EA	27	0.2
150	Steel	REDUCER CON,A234,GR.WPB,SCH40,4"X3"	EA	27	0.2
151	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,4"X2"	EA	84	0.7
152	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,3"X2"	EA	27	0.2
153	Steel	WELDOLET,A105,SP 97,3000#,SCH80,8"X2"	EA	53	1.0
154	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X2"	EA	45	0.9
155	Steel	WELDOLET,A105,SP 97,3000#,SCH80,08"X3"	EA	27	0.6
156	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X3"	EA	53	1.2
157	Steel	WELDOLET,A105,SP 97,3000#,SCH80,18"X3"	EA	40	1.4
158	Steel	SOCKOLET,A 105,MSS SP 97,3000#,2"X3/4"	EA	106	0.8
159	Steel	SOCKOLET,A 105,MSS SP 97,3000#,3"X3/4"	EA	27	0.2
160	Steel	SOCKOLET,A 105,MSS SP 97,3000#,4"X3/4"	EA	133	1.0
161	Steel	SOCKOLET,A 105,MSS SP 97,3000#,6"X3/4"	EA	133	1.2
162	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 80, 2"	EA	266	3.1
163	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 3"	EA	27	0.4
164	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 4"	EA	67	2.2
165	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 6"	EA	16	1.1
166	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 8"	EA	16	1.8
167	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH STD, 12"	EA	8	2.3
168	Steel	FLANGE,A105,B16.5,BLRF,300#, 2"	EA	85	1.8
169	Steel	FLANGE,A105,B16.5,BLRF,300#, 3"	EA	53	1.2
170	Steel	FLANGE,A105,B16.5,BLRF,300#, 4"	EA	13	0.5
171	Steel	FLANGE,A105,B16.5,BLRF,300#, 6"	EA	17	1.0
172	Steel	FLANGE,A105,B16.5,BLRF,300#, 8"	EA	24	2.6
173	Steel	FLANGE,A105,B16.5,BLRF,300#, 12"	EA	12	1.7
174	Steel	FLANGE,A105,B16.5,SWRF,300#,SCH 80, 3/4"	EA	284	1.5
175	Steel	FLANGE,A105,B16.5,BLRF,300#, 3/4"	EA	297	2.1
176	Steel	ELBOW,WPHY 60,SCH40,1.5D,90DEG, 8"	EA	100	9.1
177	Steel	ELBOW,WPHY 60,SCH40,1.5D,45DEG, 8"	EA	100	6.1
178	Steel	ELBOW,WPHY 60,SCH 40,1.5D,30DEG, 8"	EA	50	2.8
179	Steel	ELBOW,WPHY 60,SCH40,1.5D,22.5DEG, 8"	EA	50	2.6
180	Steel	ELBOW,A234,WPHY 60,1.5D,15DEG, 8"	EA	100	3.3
181	Steel	TEE EQUAL,WPHY 60,B16.9, SCH40, 8"	EA	13	2.0
182	Steel	TEE RED,WPHY 60,B16.9, SCH40, 8"X6"	EA	40	5.6
183	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 4" NB	EA	799	3.9

184	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 6" NB	EA	3194	20.3
185	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 8" NB	EA	10542	90.3
186	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 12" NB	EA	1485	18.9
187	Steel	PE COATING REPAIR PATCH,PERP,425X1000X6	Roll	40	0.5
188	Steel	PE COATING REPAIR PATCH,PERP,50X3000X3	Roll	130	1.4
189	Steel	EPOXY BULK KIT Part A	L	731	9.7
190	Steel	EPOXY BULK KIT Part B	L	244	3.9
191	Steel	PAINT, EPOXY(R95)	L	266	5.2
192	Steel	ROCK SHIELD	M2	13310	12.3
193	Steel	Cold Applied Tape (Inner wrapper) (100 mm width)	M	26620	15.7
194	Steel	Cold Applied Tape (Outer wrapper)	M	26620	7.7
195	Steel	COLD APPLIED TAPE-PRIMER	L	266	1.5
196	Steel	COLD APPLIED TAPE-MASTIC	Kg	133	2.3
197	Steel	Dirax 18"	EA	399	40.7
198	Steel	Dirax 12"	EA	133	9.2
199	Steel	Dirax 8"	EA	333	19.3
200	Steel	Dirax 6"	EA	133	6.2
201	Steel	Dirax 4"	EA	133	5.4
202	Steel	Stud with two nuts, 5/8" X 4 1/2"	EA	3993	3.5
203	Steel	Stud with two nuts, 1/2"x 2 1/2"	EA	3993	2.3
204	Steel	Stud with two nuts, 3/4"x 5 1/4"	EA	2662	3.7
205	Steel	Stud with two nuts, 7/8"x 5 1/2"	EA	1331	3.1
206	Steel	GASKET, B 16.20, S/W,RF 300#, 12"	EA	133	0.6
207	Steel	GASKET, B 16.20, S/W,RF 300#, 18"	EA	27	0.2
208	Steel	GASKET, B 16.20, S/W,RF 300#, 2"	EA	266	0.3
209	Steel	GASKET, B 16.20, S/W,RF 300#, 3"	EA	133	0.2
210	Steel	GASKET, B 16.20, S/W,RF 300#, 3/4"	EA	266	0.2
211	Steel	GASKET, B 16.20, S/W,RF 300#, 4"	EA	133	0.4
212	Steel	GASKET, B 16.20, S/W,RF 300#, 6"	EA	133	0.5
213	Steel	GASKET, B 16.20, S/W,RF 300#, 8"	EA	133	0.5
214	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 12"	EA	5	30.8
215	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8"	EA	20	69.3
216	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 6"	EA	40	110.9
217	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 6"	EA	13	27.7
218	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"	EA	53	98.6
219	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 4"	EA	13	18.5
220	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 3"	EA	27	12.3
221	Steel	VALVE,BALL,API6D,TM,FE,300#, 2",	EA	53	17.3
222	Steel	VALVE,BALL,API6D,6FA,B/W END,300#, 2"	EA	93	21.6
223	Steel	VALVE, BALL, 3/4" #800 SW END	EA	266	9.2
224	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8" (X60)	EA	5	23.2
225	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"(X60)	EA	11	37.0
226	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM B, 8"(X60)	EA	5	31.8
227	CNG	Online Compressor (1200 / 950 SCMH)	EA	34	3532.5
228	CNG	Booster Compressor (22 / 37 kW)	EA	16	752.9
229	CNG	Dispenser - Car / Bus	EA	130	1294.22475
230	CNG	CNG Cascade - 3000 WL	EA	40	701.5
231	CNG	CNG Cascade - 4500 WL	EA	40	1032.6
232	CNG	SS Tubes 1/2"	M	3194.4	20.3
233	CNG	SS Tubes 3/4"	M	4791.6	42.6
234	CNG	SS Equal Tee 1/2"	EA	212.96	3.7
235	CNG	SS Equal Tee 3/4"	EA	79.86	2.5
236	CNG	SS Reducing Tee 3/4" x 3/4" x 1/2"	EA	79.86	3.5
237	CNG	SS Reducing Tee 3/4" x 1/2" x 1/2"	EA	79.86	3.0
238	CNG	SS CONNECTOR,SS316,3/8" NPTF,1/2" OD	EA	26.62	0.2
239	CNG	SS CONNECTOR,SS316,1/4" NPTF,1/2" OD	EA	53.24	0.5
240	CNG	SS CONNECTOR,SS316,3/4" NPTM,1/2" OD	EA	53.24	0.5
241	CNG	SS CONNECTOR,SS316,3/4"NPTM,3/4" OD	EA	53.24	0.6
242	CNG	SS 2- way Ball Valve 1/2" OD Full Bore	EA	53.24	8.7
243	CNG	SS Non Return Valve 1/2" OD	EA	53.24	2.4
244	CNG	SS Non Return Valve 3/4" OD	EA	53.24	4.9
245	CNG	Quick release coupling	EA	26.62	1.3

246	CNG	SS UNION,SS316,STRAIGHT, 1/2" OD x 1/2" OD	EA	665.5	6.3
247	CNG	SS UNION,SS316,STRAIGHT, 3/4" OD x 3/4" OD	EA	931.7	16.6
248	CNG	SS UNION,SS316,REDUCER, 3/4" OD X 1/2" OD	EA	79.86	1.4
249	O&M	CNG Mass flow meters	EA	69	121.3
250	O&M	2-way / 3-way Valves for Dispensers	EA	1042	147.7
251	O&M	Long Hoses for Dispensers	EA	115.7625	13.4
252	O&M	Short (1 feet) Hoses for Dispensers	EA	463.05	18.7
253	O&M	O&M spares for Compressors & Dispensers		Lumpsum	2316.8

PROCUREMENT PLAN (PNG, CNG & STEEL) - MAHANGAR GAS LIMITED - FY 2024-25

Sr. No.	Category	MATERIAL DESCRIPTION	UOM	Quantity	Estimated value of procurement (Rs. Lakhs)
1	PE	Appliance Valve 1/4" with Nozzle 6.4 mm	EA	199650	288.3
2	PE	Meter Control Valve 1/2"	EA	319440	567.8
3	PE	Riser Isolation Valve 3/4"	EA	14756	44.3
4	PE	Riser Isolation Valve 1"	EA	9811	40.9
5	PE	Riser Isolation Valve 2"	EA	1184	18.8
6	PE	Brass Ball Valve 1/4" (F/F)	EA	13213	20.1
7	PE	Brass Disconn Union 3/4" x 12 mm (St)	EA	199650	206.3
8	PE	Brass Disconn Union 1/2" x 12 mm (St)	EA	199650	206.3
9	PE	Brass Adaptor 1/4" M x 12 mm	EA	199650	40.0
10	PE	Meter Inlet Union 3/4 F x 3/4"	EA	199650	247.5
11	PE	Meter Outlet Union 3/4" x 12 mm	EA	199650	247.5
12	PE	Brass adap 1/2" x 1/2" - flex corr pipe	EA	79860	42.8
13	PE	Diaph GM G 1.6 (Qmax 2.5scmh)	EA	259545	2997.0
14	PE	Meter Regulator 3/4"-Prefitted	EA	199650	1201.2
15	PE	SR Module assembly (25 scmh)	EA	2348	194.1
16	PE	SR Module assembly (40 scmh)	EA	1028	109.4
17	PE	SR Module assembly (65 scmh)	EA	1028	162.5
18	PE	Crimping Fitting 1" x 32 mm (LP)	EA	9783	15.9
19	PE	Crimping Fitting 3/4"x 32 mm (LP)	EA	14574	23.6
20	PE	Crimping Fitting 2" x 63 mm (LP)	EA	1198	13.5
21	PE	GASKETS (STUB FLANGE) 2"-63 mm	EA	80	0.2
22	PE	PE ADAPTER(STUB FLANGE) 63 mm	EA	80	0.4
23	PE	PLATE FLANGE (STUB FLANGE) 2"-63mm	EA	80	0.8
24	PE	GASKETS (STUB FLANGE) 3" -90 mm	EA	200	0.6
25	PE	PE ADAPTER(STUB FLANGE) 90 mm	EA	200	4.5
26	PE	PLATE FLANGE (STUB FLANGE) 3"-90mm	EA	200	4.1
27	PE	GASKETS (STUB FLANGE) 4" -125 mm	EA	200	0.8
28	PE	PE ADAPTER(STUB FLANGE) 125 mm	EA	200	3.9
29	PE	PLATE FLANGE (STUB FLANGE) 4"-125mm	EA	200	5.0
30	PE	PE Stop-off Valve 63 mm	EA	519	40.9
31	PE	PE Stop-off Valve 90 mm	EA	579	64.9
32	PE	PE Stop-off Valve 125 mm	EA	679	98.2
33	PE	Rubber hose (8 mm NB), steel reinforced	M	299475	141.1
34	PE	Diaph GM G 4 (Qmax 6scmh)	EA	72	2.6
35	PE	Diaph GM G 6 (Qmax 10scmh)	EA	180	16.3
36	PE	Service Regulator 25 scmh	EA	704	21.0
37	PE	Service Regulator 40 scmh	EA	117	5.1
38	PE	Service Regulator 65 scmh	EA	123	11.4
39	PE	PE PIPE 32 mm (PE 100) SDR 11 (CU WIRE)	M	232925	119.3
40	PE	PE PIPE 63 mm (PE 100) SDR 11 (CU WIRE)	M	40596	62.6
41	PE	PE PIPE 90 mm (PE 100) SDR 11 (CU WIRE)	M	178620	586.4
42	PE	PE PIPE 125 mm (PE 100) SDR 11 (CU WIRE)	M	226536	1405.4
43	PE	PE End Cap 32 mm (PE 100)	EA	2382	1.3
44	PE	PE End Cap 63 mm (PE 100)	EA	932	1.3
45	PE	PE End Caps 90 mm (PE 100)	EA	745	4.3
46	PE	PE End Cap 125 mm (PE 100)	EA	213	1.9
47	PE	PE Coupler (St) 32 mm (PE 100)	EA	23106	8.1

48	PE	PE Coupler (St) 63 mm (PE 100)	EA	1664	1.5
49	PE	PE Coupler (St) 90 mm (PE 100)	EA	7108	24.6
50	PE	PE Coupler (St) 125 mm (PE 100)	EA	6788	33.4
51	PE	PE Elbow 32 mm 90 deg (PE 100)	EA	4792	4.1
52	PE	PE Elbow 63 mm 45 deg (PE 100)	EA	998	2.2
53	PE	PE Elbow 63 mm 90 deg (PE 100)	EA	1464	3.2
54	PE	PE Elbow 90 mm 45 deg (PE 100)	EA	1770	9.8
55	PE	PE Elbow 90 mm 90 deg (PE 100)	EA	2729	15.4
56	PE	PE Elbow 125 mm 45 deg (PE 100)	EA	479	3.8
57	PE	PE Elbow 125 mm 90 deg (PE 100)	EA	958	8.7
58	PE	PE Reducer 63 x 32 mm (PE 100)	EA	5257	4.6
59	PE	PE Reducer 90 x 63 mm (PE 100)	EA	5324	14.6
60	PE	PE Reducer 125 x 90 mm (PE 100)	EA	1145	9.6
61	PE	PE Reducing Tee 90 x 63 mm (PE 100)	EA	186	1.9
62	PE	PE Reducing Tee 125 x 90 mm (PE 100)	EA	53	1.0
63	PE	PE Service Tee 32 x 20 mm (PE 100)	EA	306	0.5
64	PE	PE Service Tee 63 x 32 mm (PE 100)	EA	719	2.2
65	PE	PE Service Tee 90 x 32 mm (PE 100)	EA	692	3.1
66	PE	PE Service Tee 125 x 32 mm (PE 100)	EA	1131	6.0
67	PE	PE Equal Tee 32 mm (PE 100)	EA	16118	15.2
68	PE	PE Equal Tee 63 mm (PE 100)	EA	732	1.9
69	PE	PE Equal Tee 90 mm (PE 100)	EA	1917	11.8
70	PE	PE Equal Tee 125 mm (PE 100)	EA	319	3.5
71	PE	Flex corr hose 1/2"x300mm(SS316L)PO SLV	EA	86848	187.3
72	PE	RCC Protection Tile 50 x 300 x 500 mm	EA	592134	820.5
73	PE	RCC Bottom Slab 150 x 300 x 350 mm	EA	74994	223.3
74	PE	RCC Bottom Slab 200 x 350 x 350 mm	EA	18938	72.5
75	PE	U-Shaped RCC Block 250 x 300 x 350 mm	EA	5972	19.6
76	PE	U-Shaped RCC Block 285 x 350 x 350 mm	EA	69022	272.7
77	PE	U-Shaped RCC Block 340 x 400 x 350 mm	EA	18938	115.6
78	PE	ERW Pipe (Heavy Class) -GI&PC- 1/2" NB	M	798600	861.8
79	PE	ERW Pipe (Heavy Class) -GI&PC- 3/4" NB	M	890040	1221.1
80	PE	ERW Pipe (Heavy Class) -GI&PC- 1" NB	M	307261	610.9
81	PE	ERW Pipe (Heavy Class) -GI&PC- 1 1/2" NB	M	12937	42.3
82	PE	ERW Pipe (Heavy Class) -GI&PC- 2" NB	M	3234	16.2
83	PE	Copper Tube 12 mm OD x 0.6 mm	M	798600	941.5
84	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x261 MM	EA	59895	32.0
85	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x311 MM	EA	59895	37.1
86	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x362 MM	EA	59895	45.1
87	PE	PRE-SLEEVED GI HOLE PIECE - 1/2"x387 MM	EA	19965	16.3
88	PE	RPD METER, G 10	EA	20	12.4
89	PE	RPD METER, G 16	EA	20	12.4
90	PE	RPD METER, G 25	EA	30	17.2
91	PE	RPD METER, G 40	EA	40	22.9
92	PE	RPD METER, G 65	EA	40	26.5
93	PE	RPD METER, G 100	EA	10	7.0
94	PE	RPD METER, G 160	EA	10	10.4
95	PE	RPD METER, G 250	EA	10	17.2
96	PE	RPD METER, G 400	EA	10	25.1
97	PE	RPD METER, G 650	EA	4	27.3
98	PE	Br Adap set - Diaph GM G4 (Qmax 6scmh)	EA	72	0.2
99	PE	Br Adap set - Diaph GM G6 (Qmax 10scmh)	EA	180	0.7
100	PE	Br Adap set - Diaph GM G16 (Qmax 25scmh)	EA	451	3.7
101	PE	Br Adap set - Diaph GM G25 (Qmax 40scmh)	EA	117	1.4
102	PE	PR REG(25 SCMH) - 0.15 to 0.5 BAR	EA	40	3.0
103	PE	PR REG(40 SCMH) - 0.15 to 0.5 BAR	EA	40	3.4
104	PE	PR REG(65 SCMH) - 0.15 to 0.5 BAR	EA	40	3.5
105	Steel	PIPE, 3LPE COATED, SMLS, API 5L, GR.B,6.4MM WT, 4"	M	4000	87.5
106	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,8.18MM WT, 8"	M	7500	410
107	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.X60,7.1MM WT, 8"	M	2000	85.1
108	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,7.1MM WT, 6"	M	5500	200.6
109	Steel	PIPE, 3LPE COATED, ERW, API 5L, GR.B,9.5MM WT,12"	M	5000	364.7

110	Steel	PIPE,BARE,SMLES,API5L,GR.B,SCH80, 3/4"	M	500	1.8
111	Steel	PIPE,BARE,SMLES,API5L,GR.B,SCH80, 2"	M	500	4.6
112	Steel	PIPE,BARE,SMLES,API5L,GR.B,SCH40, 4"	M	500	12.2
113	Steel	PIPE,18" NB x 10.3 mm Thk. Conforming to API 5L, X-52	EA	0	0.0
114	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,90DEG, 2"	EA	296	1.1
115	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 3"	EA	152	0.8
116	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 4"	EA	631	6.4
117	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 6"	EA	290	6.8
118	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,90DEG, 8"	EA	293	15.2
119	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,90DEG,12"	EA	35	2.6
120	Steel	ELBOW,A234,GR.WPB,SCH80,1.5D,45DEG, 2"	EA	146	0.4
121	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 3"	EA	146	0.6
122	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 4"	EA	170	1.5
123	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 6"	EA	72	1.7
124	Steel	ELBOW,A234,GR.WPB,SCH40,1.5D,45DEG, 8"	EA	30	0.5
125	Steel	ELBOW,A234,GR.WPB,SCH.STD,1.5D,45DEG,12"	EA	15	0.8
126	Steel	ELBOW,A234,GR.WPB,SCH40,3D,30DEG, 6"	EA	14	0.4
127	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,30DEG, 12"	EA	12	0.6
128	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 6"	EA	14	0.3
129	Steel	ELBOW,A234,GR.WPB,SCH40,3D,22.5DEG, 8"	EA	6	0.3
130	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,22.5DEG,12"	EA	9	1.0
131	Steel	ELBOW,A234,GR.WPB,SCH40,3D,15DEG, 8"	EA	12	0.6
132	Steel	ELBOW,A234,GR.WPB,SCH.STD,3D,15DEG, 12"	EA	12	0.9
133	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH80, 2"	EA	15	0.4
134	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 4"	EA	29	0.9
135	Steel	TEE EQUAL,A234 Gr.WPB,B16.9,SCH40, 6"	EA	29	1.1
136	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X8"	EA	7	1.7
137	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X6"	EA	20	2.2
138	Steel	TEE RED,A234,GR.WPB,B16.9,STDXS40,12"X4"	EA	19	1.4
139	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X6"	EA	15	0.9
140	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,8"X4"	EA	15	0.8
141	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X4"	EA	25	1.2
142	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,6"X3"	EA	22	1.1
143	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40,4"X3"	EA	22	0.9
144	Steel	TEE RED,A234,GR.WPB,B16.9,SCH40X80,4"X2"	EA	23	0.9
145	Steel	REDUCER CON,A234,GR.WPB,SCH40,12"X8"	EA	18	2.1
146	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X6"	EA	53	1.9
147	Steel	REDUCER CON,A234,GR.WPB,SCH40,8"X4"	EA	29	0.6
148	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X4"	EA	57	1.3
149	Steel	REDUCER CON,A234,GR.WPB,SCH40,6"X3"	EA	29	0.3
150	Steel	REDUCER CON,A234,GR.WPB,SCH40,4"X3"	EA	29	0.3
151	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,4"X2"	EA	92	0.8
152	Steel	REDUCER CON,A234,GR.WPB,SCH40X80,3"X2"	EA	29	0.2
153	Steel	WELDOLET,A105,SP 97,3000#,SCH80,8"X2"	EA	59	1.2
154	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X2"	EA	50	1.1
155	Steel	WELDOLET,A105,SP 97,3000#,SCH80,08"X3"	EA	29	0.6
156	Steel	WELDOLET,A105,SP 97,3000#,SCH80,12"X3"	EA	59	1.4
157	Steel	WELDOLET,A105,SP 97,3000#,SCH80,18"X3"	EA	44	1.6
158	Steel	SOCKOLET,A 105,MSS SP 97,3000#,2"X3/4"	EA	117	0.9
159	Steel	SOCKOLET,A 105,MSS SP 97,3000#,3"X3/4"	EA	29	0.2
160	Steel	SOCKOLET,A 105,MSS SP 97,3000#,4"X3/4"	EA	146	1.1
161	Steel	SOCKOLET,A 105,MSS SP 97,3000#,6"X3/4"	EA	146	1.4
162	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 80, 2"	EA	293	3.6
163	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 3"	EA	29	0.4
164	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 4"	EA	73	2.6
165	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 6"	EA	18	1.2
166	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH 40, 8"	EA	18	2.1
167	Steel	FLANGE,A105,B16.5,WNRF,300#,SCH STD, 12"	EA	9	2.7
168	Steel	FLANGE,A105,B16.5,BLRF,300#, 2"	EA	94	2.1
169	Steel	FLANGE,A105,B16.5,BLRF,300#, 3"	EA	59	1.4
170	Steel	FLANGE,A105,B16.5,BLRF,300#, 4"	EA	15	0.6
171	Steel	FLANGE,A105,B16.5,BLRF,300#, 6"	EA	19	1.2
172	Steel	FLANGE,A105,B16.5,BLRF,300#, 8"	EA	26	3.0

173	Steel	FLANGE,A105,B16.5,BLRF,300#, 12"	EA	13	1.9
174	Steel	FLANGE,A105,B16.5,SWRF,300#,SCH 80, 3/4"	EA	312	1.7
175	Steel	FLANGE,A105,B16.5,BLRF,300#, 3/4"	EA	326	2.4
176	Steel	ELBOW,WPHY 60,SCH40,1.5D,90DEG, 8"	EA	100	9.6
177	Steel	ELBOW,WPHY 60,SCH40,1.5D,45DEG, 8"	EA	100	6.4
178	Steel	ELBOW,WPHY 60,SCH 40,1.5D,30DEG, 8"	EA	50	2.9
179	Steel	ELBOW,WPHY 60,SCH40,1.5D,22.5DEG, 8"	EA	50	2.8
180	Steel	ELBOW,A234,WPHY 60,1.5D,15DEG, 8"	EA	100	3.4
181	Steel	TEE EQUAL,WPHY 60,B16.9, SCH40, 8"	EA	15	2.3
182	Steel	TEE RED,WPHY 60,B16.9, SCH40, 8"X6"	EA	44	6.5
183	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 4" NB	EA	878	4.5
184	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 6" NB	EA	3514	23.5
185	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 8" NB	EA	11596	104.3
186	Steel	HEAT SHRINK SLEEVE, 17" WIDE, 12" NB	EA	1634	21.8
187	Steel	PE COATING REPAIR PATCH,PERP,425X1000X6	Roll	44	0.6
188	Steel	PE COATING REPAIR PATCH,PERP,50X3000X3	Roll	143	1.6
189	Steel	EPOXY BULK KIT Part A	L	804	11.2
190	Steel	EPOXY BULK KIT Part B	L	268	4.6
191	Steel	PAINT, EPOXY(R95)	L	293	6.1
192	Steel	ROCK SHIELD	M2	14641	14.2
193	Steel	Cold Applied Tape (Inner wrapper) (100 mm width)	M	29282	18.2
194	Steel	Cold Applied Tape (Outer wrapper)	M	29282	8.9
195	Steel	COLD APPLIED TAPE-PRIMER	L	293	1.8
196	Steel	COLD APPLIED TAPE-MASTIC	Kg	146	2.7
197	Steel	Dirax 18"	EA	439	47.0
198	Steel	Dirax 12"	EA	146	10.7
199	Steel	Dirax 8"	EA	366	22.2
200	Steel	Dirax 6"	EA	146	7.1
201	Steel	Dirax 4"	EA	146	6.2
202	Steel	Stud with two nuts, 5/8" X 4 1/2"	EA	4392	4.0
203	Steel	Stud with two nuts, 1/2"x 2 1/2"	EA	4392	2.7
204	Steel	Stud with two nuts, 3/4"x 5 1/4"	EA	2928	4.3
205	Steel	Stud with two nuts, 7/8"x 5 1/2"	EA	1464	3.6
206	Steel	GASKET, B 16.20, S/W,RF 300#, 12"	EA	146	0.7
207	Steel	GASKET, B 16.20, S/W,RF 300#, 18"	EA	29	0.2
208	Steel	GASKET, B 16.20, S/W,RF 300#, 2"	EA	293	0.4
209	Steel	GASKET, B 16.20, S/W,RF 300#, 3"	EA	146	0.2
210	Steel	GASKET, B 16.20, S/W,RF 300#, 3/4"	EA	293	0.3
211	Steel	GASKET, B 16.20, S/W,RF 300#, 4"	EA	146	0.4
212	Steel	GASKET, B 16.20, S/W,RF 300#, 6"	EA	146	0.5
213	Steel	GASKET, B 16.20, S/W,RF 300#, 8"	EA	146	0.6
214	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 12"	EA	6	35.6
215	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8"	EA	22	80.1
216	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 6"	EA	44	128.1
217	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 6"	EA	15	32.0
218	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"	EA	59	113.9
219	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 4"	EA	15	21.4
220	Steel	VALVE,BALL,API6D,6FA,TM,B/W END,300#, 3"	EA	29	14.2
221	Steel	VALVE,BALL,API6D,TM,FE,300#, 2",	EA	59	19.9
222	Steel	VALVE,BALL,API6D,6FA,B/W END,300#, 2"	EA	102	24.9
223	Steel	VALVE, BALL, 3/4" #800 SW END	EA	293	10.7
224	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 8" (X60)	EA	5	24.3
225	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM A, 4"(X60)	EA	12	42.7
226	Steel	VALVE,BALL,API6D,TM,B/W,300#,STEM B, 8"(X60)	EA	5	33.4
227	CNG	Online Compressor (1200 / 950 SCMH)	EA	38	4145.5
228	CNG	Booster Compressor (22 / 37 kW)	EA	18	889.4
229	CNG	Dispenser - Car / Bus	EA	150	1568.003063
230	CNG	CNG Cascade - 3000 WL	EA	44	810.3
231	CNG	CNG Cascade - 4500 WL	EA	44	1192.7
232	CNG	SS Tubes 1/2"	M	3513.84	23.5
233	CNG	SS Tubes 3/4"	M	5270.76	49.2
234	CNG	SS Equal Tee 1/2"	EA	234.256	4.3

235	CNG	SS Equal Tee 3/4"	EA	87.846	2.9
236	CNG	SS Reducing Tee 3/4" x 3/4" x 1/2"	EA	87.846	4.0
237	CNG	SS Reducing Tee 3/4" x 1/2" x 1/2"	EA	87.846	3.5
238	CNG	SS CONNECTOR,SS316,3/8" NPTF,1/2" OD	EA	29.282	0.3
239	CNG	SS CONNECTOR,SS316,1/4" NPTF,1/2" OD	EA	58.564	0.5
240	CNG	SS CONNECTOR,SS316,3/4" NPTM,1/2" OD	EA	58.564	0.6
241	CNG	SS CONNECTOR,SS316,3/4"NPTM,3/4" OD	EA	58.564	0.7
242	CNG	SS 2- way Ball Valve 1/2" OD Full Bore	EA	58.564	10.0
243	CNG	SS Non Return Valve 1/2" OD	EA	58.564	2.8
244	CNG	SS Non Return Valve 3/4" OD	EA	58.564	5.7
245	CNG	Quick release coupling	EA	29.282	1.5
246	CNG	SS UNION,SS316,STRAIGHT, 1/2" OD x 1/2" OD	EA	732.05	7.3
247	CNG	SS UNION,SS316,STRAIGHT, 3/4" OD x 3/4" OD	EA	1024.87	19.1
248	CNG	SS UNION,SS316,REDUCER, 3/4" OD X 1/2" OD	EA	87.846	1.6
249	O&M	CNG Mass flow meters	EA	73	133.5
250	O&M	2-way / 3-way Valves for Dispensers	EA	1094	162.5
251	O&M	Long Hoses for Dispensers	EA	122	14.8
252	O&M	Short (1 feet) Hoses for Dispensers	EA	486	20.6
253	O&M	O&M spares for Compressors & Dispensers		Lumpsum	2548.5