

UNPRICED SCHEDULE OF RATES

**(BIDDER NEED TO MENTION 'QUOTED' IN
UNPRICED SOR)**

Schedule of Rates
for
Mechanical Works

Tender No.	6907-11-16-43-MH-T-3070	Part 0	0					MI
Tender Name	BALANCE INSULATION WORKS AT LAKWA							
			REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES			Rev
		Date	Bidder's Signature	Div.: ENGINEERING Dept.: Piping	6907-11-16-43-MH-SOR-3070-0 SHEET 1 OF 27			0

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	M12800000000	WOODEN/HIGH DENSITY PUF SUPPORTS FOR COLD LINES :- Supply, shaping, positioning and fixing of cold line supports as per EIL pipe support standard having the following specifications: Wood specification: Hard wood, chemically treated with creosote under pressure. Quality of wood to conform class-I durability as per IS-3629 & Grade-I timber of Group-A with permissible compression strength of 70 Kg/cm2 perpendicular to grains as per IS-883. PUF specifications: Density for lines upto 6" NB : 200 kg/cm3 Density for lines above 6" NB : 300 kg/cm3					
2	M12801000000	WOODEN BLOCKS	Cu. M	0.01			
3	M12802000000	HIGH DENSITY (200 Kg/Cu.M) PUF BLOCKS	Cu. M	2			
4	M12803000000	HIGH DENSITY (300 Kg/Cu.M) PUF BLOCKS	Cu. M	10			
5	M19900000000	WOODEN/HIGH DENSITY PUF SUPPORTS FOR COLD LINES :- (PUF MATERIAL SUPPLIED BY OWNER) Shaping, positioning and fixing of cold line supports as per EIL pipe support standard having the following specifications:Wood Specification: Hard wood, chemically treated with creosote under pressure. Quality of wood to conform class-I durability as per IS-3629 & Grade-I timber of Group-A with permissible compression strength of 70 Kg/cm2 perpendicular to grains as per IS-883. PUF specifications: Density for lines upto 6" NB : 200 kg/cm3 Density for lines above 6" NB : 300 kg/cm3					
6	M19901000000	HIGH DENSITY (200 Kg/Cu.M) PUF BLOCKS	Cu. M	3			
7	M19902000000	HIGH DENSITY (300 Kg/Cu.M) PUF BLOCKS	Cu. M	1			
8	M30000000000						
9	M39900000000	PAINTING (UNITS):- Supply of Primer and Paint, preparation of surfaces/ Rubdown and application of primer and finish paint for touch-up work wherever identified for application by Engineer-in-Charge, Providing					

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					Figures	Words	
10	M39901000000	scaffolding for all heights, labour, material, tools and tackles, consumables supervision etc. to complete the work in all respects as per drawings and direction of Engineer-in-Charge for insulated piping as specified including all pipes, fittings, flanges, valves etc.					
11	M39901001000	PAINTING UNDER INSULATION FOR INSULATED SURFACES FOR 'CORROSIVE' ENVIRONMENT AS PER JOB SPEC 6907-0642-PT-L07, REV 0 FOR CS/LTCS/AS PIPING.					
12	M39901002000	DESIGN TEMP GROUP: -45 TO 125 (DEG C)	Sq. M	391			
13	M39902000000	DESIGN TEMP GROUP: 126 TO 400 (DEG C)	Sq. M	339			
14	M39902001000	PAINTING UNDER INSULATION FOR INSULATED SURFACES FOR 'CORROSIVE' ENVIRONMENT AS PER JOB SPEC 6907-0642-PT-L07, REV 0 FOR SS PIPING.					
15	M5*****	DESIGN TEMP GROUP: Below 0 (DEG C) to all minus temperature	Sq. M	82			
		***** LEGENDS / NOTES FOR INSULATION WORKS ***** ** Types of Insulation : IH = Insulation for Heat Coservation IT = Insulation for Steam Traced Lines IS = Insualtion for Personal safety IC = Cold Insulation for Anti-condensation IE = Insulation for Electrically traced lines ** Basic Line Surface Materials : CS = Carbon Steel (Including LT Carbon Steel) AS = Alloy Steel					

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					Project : BCPL CRACKER COMPLEX, ASSAM	6907-11-16-43-MH-SOR-3070-0		
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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
16	M500000000000	SS = Stainless Steel ** Notes : 1. For insulation type IT, tracer size and tracer numbers shall be as per specification. 2. Insulation thickness for IC where insulation material is Poly Urethane foam (PUF) / Poly Isocyanurate (PIC) + Cellular Glass includes outer layer of 50mm of Cellular Glass and inner layer of balance thickness of PUF/PIC 3. Insulation for IE consists of Inner layer of Rockwool and Outer layer of PUF/ PIC. The thickness have been specified as Thk (I) and Thk (O) for inner and outer layers respectively. 4. For Hot Insulation applicable EIL specification is 6-44-0002 and its addendum ***** HOT INSULATION (UNITS) ; Providing thermal insulation including supply of all insulating and ancillary materials, vapour barrier, weather protective coverings, consumables and other necessary materials , testing of materials as required, including transportation of materials to work site, duly inspected by 3rd party inspector(Llyods/BV/DNV or any other Client approved party) at manufacturer's shop & sample check/inspection at site by EIL Construction inspector, applying insulation on surfaces as specified including all preparatory work there on, binding, tying, lacing, stitching and/or otherwise securing , finishing with sheet cladding as per spec. , providing bolts, rivets, and self tapping screws wherever specified , providing inspection windows, end seals for flanges etc., colour coding and identification. Providing steel scaffolding, all tools , tackles , equipments etc. ,					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
17	M50100000000	labour, supervision and completing the work in all respect, at all heights as per drawings , specifications and instructions of Engineer-in-charge. (Refer Legend for applicable EIL specification)					
18	M50101000000	INSULATION TYPE : IH; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					
19	M50101010000	PIPES					
20	M50101010507	NB 0.750 INCHES; THICKNESS 35 MM	Metres	20			
21	M50101010607	NB 1.000 INCHES; THICKNESS 35 MM	Metres	245			
22	M50101011505	NB 6.000 INCHES; THICKNESS 25 MM	Metres	20			
23	M50101011605	NB 8.000 INCHES; THICKNESS 25 MM	Metres	5			
24	M50101011620	NB 8.000 INCHES; THICKNESS 100 MM	Metres	30			
25	M50101011820	NB12.000 INCHES; THICKNESS 100 MM	Metres	10			
26	M50101030000	BLIND FLANGE ASSEMBLIES					
27	M50101030605	NB 1.000 INCHES; THICKNESS 25 MM	NOs	1			
28	M50101030805	NB 1.500 INCHES; THICKNESS 25 MM	NOs	2			
29	M50101030907	NB 2.000 INCHES; THICKNESS 35 MM	NOs	1			
30	M50101031505	NB 6.000 INCHES; THICKNESS 25 MM	NOs	2			
31	M50101040000	VALVE ASSEMBLIES					
32	M50101041620	NB 8.000 INCHES; THICKNESS 100 MM	NOs	2			
33	M50101041820	NB12.000 INCHES; THICKNESS 100 MM	NOs	8			
34	M50102000000	INSULATION TYPE : IH; SURFACE MATERIAL : CS &					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		AS; OPERATING TEMP. RANGE : 126 (DEG C) TO 350 (DEG C); INSULATION MATERIAL : ROCKWOOL					
35	M50102010000	PIPES					
36	M50102010411	NB 0.500 INCHES; THICKNESS 55 MM	Metres	10			
37	M50102010509	NB 0.750 INCHES; THICKNESS 45 MM	Metres	5			
38	M50102010510	NB 0.750 INCHES; THICKNESS 50 MM	Metres	5			
39	M50102010511	NB 0.750 INCHES; THICKNESS 55 MM	Metres	25			
40	M50102010512	NB 0.750 INCHES; THICKNESS 60 MM	Metres	10			
41	M50102010607	NB 1.000 INCHES; THICKNESS 35 MM	Metres	15			
42	M50102010611	NB 1.000 INCHES; THICKNESS 55 MM	Metres	55			
43	M50102010811	NB 1.500 INCHES; THICKNESS 55 MM	Metres	90			
44	M50102010907	NB 2.000 INCHES; THICKNESS 35 MM	Metres	210			
45	M50102010909	NB 2.000 INCHES; THICKNESS 45 MM	Metres	5			
46	M50102010910	NB 2.000 INCHES; THICKNESS 50 MM	Metres	75			
47	M50102011106	NB 3.000 INCHES; THICKNESS 30 MM	Metres	15			
48	M50102011111	NB 3.000 INCHES; THICKNESS 55 MM	Metres	5			
49	M50102011112	NB 3.000 INCHES; THICKNESS 60 MM	Metres	230			
50	M50102011309	NB 4.000 INCHES; THICKNESS 45 MM	Metres	5			
51	M50102011506	NB 6.000 INCHES; THICKNESS 30 MM	Metres	25			
52	M50102011508	NB 6.000 INCHES; THICKNESS 40 MM	Metres	20			
53	M50102011511	NB 6.000 INCHES; THICKNESS 55 MM	Metres	240			
54	M50102011606	NB 8.000 INCHES; THICKNESS 30 MM	Metres	15			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
55	M50102011609	NB 8.000 INCHES; THICKNESS 45 MM	Metres	30			
56	M50102011612	NB 8.000 INCHES; THICKNESS 60 MM	Metres	5			
57	M50102011709	NB10.000 INCHES; THICKNESS 45 MM	Metres	10			
58	M50102012006	NB16.000 INCHES; THICKNESS 30 MM	Metres	5			
59	M50102012020	NB16.000 INCHES; THICKNESS 100 MM	Metres	5			
60	M50102012030	NB16.000 INCHES; THICKNESS 150 MM	Metres	220			
61	M50102030000	BLIND FLANGE ASSEMBLIES					
62	M50102030809	NB 1.500 INCHES; THICKNESS 45 MM	NOs	1			
63	M50102030905	NB 2.000 INCHES; THICKNESS 25 MM	NOs	2			
64	M50102031111	NB 3.000 INCHES; THICKNESS 55 MM	NOs	6			
65	M50102031112	NB 3.000 INCHES; THICKNESS 60 MM	NOs	3			
66	M50102031511	NB 6.000 INCHES; THICKNESS 55 MM	NOs	3			
67	M50102040000	VALVE ASSEMBLIES					
68	M50102042030	NB16.000 INCHES; THICKNESS 150 MM	NOs	10			
69	M50133000000	INSULATION TYPE : IS; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					
70	M50133010000	PIPES					
71	M50133010405	NB 0.500 INCHES; THICKNESS 25 MM	Metres	5			
72	M50133010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	10			
73	M50133010605	NB 1.000 INCHES; THICKNESS 25 MM	Metres	20			
74	M50133010805	NB 1.500 INCHES; THICKNESS 25 MM	Metres	5			
75	M50133010910	NB 2.000 INCHES; THICKNESS 50 MM	Metres	60			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
76	M50133011305	NB 4.000 INCHES; THICKNESS 25 MM	Metres	45			
77	M50133011505	NB 6.000 INCHES; THICKNESS 25 MM	Metres	15			
78	M50133011605	NB 8.000 INCHES; THICKNESS 25 MM	Metres	50			
79	M50133011705	NB10.000 INCHES; THICKNESS 25 MM	Metres	95			
80	M50133011805	NB12.000 INCHES; THICKNESS 25 MM	Metres	30			
81	M50133011820	NB12.000 INCHES; THICKNESS 100 MM	Metres	20			
82	M50133011830	NB12.000 INCHES; THICKNESS 150 MM	Metres	45			
83	M50133012105	NB18.000 INCHES; THICKNESS 25 MM	Metres	40			
84	M50133020000	FLANGE ASSEMBLIES					
85	M50133020805	NB 1.500 INCHES; THICKNESS 25 MM	NOs	2			
86	M50133021305	NB 4.000 INCHES; THICKNESS 25 MM	NOs	5			
87	M50133030000	BLIND FLANGE ASSEMBLIES					
88	M50133030905	NB 2.000 INCHES; THICKNESS 25 MM	NOs	1			
89	M50133031305	NB 4.000 INCHES; THICKNESS 25 MM	NOs	1			
90	M50133040000	VALVE ASSEMBLIES					
91	M50133040605	NB 1.000 INCHES; THICKNESS 25 MM	NOs	4			
92	M50133040805	NB 1.500 INCHES; THICKNESS 25 MM	NOs	2			
93	M50133040905	NB 2.000 INCHES; THICKNESS 25 MM	NOs	47			
94	M50133040910	NB 2.000 INCHES; THICKNESS 50 MM	NOs	20			
95	M50133041105	NB 3.000 INCHES; THICKNESS 25 MM	NOs	18			
96	M50133041305	NB 4.000 INCHES; THICKNESS 25 MM	NOs	8			
97	M50133041505	NB 6.000 INCHES; THICKNESS 25 MM	NOs	2			

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					Figures	Words	
98	M50133042105	NB18.000 INCHES; THICKNESS 25 MM	NOS	1			
99	M50134000000	INSULATION TYPE : IS; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : 126 (DEG C) TO 350 (DEG C); INSULATION MATERIAL : ROCKWOOL					
100	M50134010000	PIPES					
101	M50134012013	NB16.000 INCHES; THICKNESS 65 MM	Metres	10			
102	M50134012030	NB16.000 INCHES; THICKNESS 150 MM	Metres	30			
103	M55100000000						
104	M55109000000	INSULATION TYPE : IH; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : INHIBITED ROCKWOOL					
105	M55109010000	PIPES					
106	M55109010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	5			
107	M55109010605	NB 1.000 INCHES; THICKNESS 25 MM	Metres	5			
108	M55109011505	NB 6.000 INCHES; THICKNESS 25 MM	Metres	90			
109	M55109011605	NB 8.000 INCHES; THICKNESS 25 MM	Metres	5			
110	M55141000000	INSULATION TYPE : IS; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : INHIBITED ROCKWOOL					
111	M55141010000	PIPES					
112	M55141010805	NB 1.500 INCHES; THICKNESS 25 MM	Metres	5			
113	M55141011605	NB 8.000 INCHES; THICKNESS 25 MM	Metres	30			
114	M55141020000	FLANGE ASSEMBLIES					
115	M55141020505	NB 0.750 INCHES; THICKNESS 25 MM	NOS	1			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
116	M55141021605	NB 8.000 INCHES; THICKNESS 25 MM	NOS	1			
117	M55141040000	VALVE ASSEMBLIES					
118	M55141040505	NB 0.750 INCHES; THICKNESS 25 MM	NOS	7			
119	M55141040605	NB 1.000 INCHES; THICKNESS 25 MM	NOS	1			
120	M55141040905	NB 2.000 INCHES; THICKNESS 25 MM	NOS	1			
121	M55141041605	NB 8.000 INCHES; THICKNESS 25 MM	NOS	1			
122	M59900000000	HOT INSULATION (UNITS) ; (INSULATION MATERIAL SUPPLIED BY OWNER) Providing thermal insulation excluding supply of insulation material which shall be supplied by owner but including supply of all ancillary materials, vapour barrier, weather protective coverings, consumables and other necessary materials , testing of materials as required, including transportation of materials to work site, duly inspected by 3rd party inspector(Llyods/BV/DNV or any other Client approved party) at manufacturer's shop & Sample check/inspection at site by EIL Construction inspector, applying insulation on surfaces as specified including all preparatory work there on, binding, tying, lacing, stitching and/or therwise securing , finishing with sheet cladding as per spec. , providing bolts, rivets, and self tapping screws wherever specified , providing inspection windows, end seals for flanges etc., colour coding and identification. Providing steel scaffolding, all tools , tackles , equipments etc. , labour, supervision and completing the work in all respect, at all heights as per drawings , specifications and instructions of Engineer-in-charge. (Refer Legend for applicable EIL specification)					
123	M59902000000	INSULATION TYPE : IH; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					

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					Figures	Words	
124	M59902010000	PIPES					
125	M59902010505	NB 0.750 INCHES; THICKNESS 25MM	Metres	10			
126	M59902010605	NB 1.000 INCHES; THICKNESS 25MM	Metres	55			
127	M59902010705	NB 1.500 INCHES; THICKNESS 25MM	Metres	15			
128	M59902010805	NB 1.500 INCHES; THICKNESS 35MM	Metres	15			
129	M59902010905	NB 2.000 INCHES; THICKNESS 25MM	Metres	55			
130	M59902011005	NB 2.000 INCHES; THICKNESS 35MM	Metres	165			
131	M59902011105	NB 3.000 INCHES; THICKNESS 25MM	Metres	30			
132	M59902011205	NB 4.000 INCHES; THICKNESS 25MM	Metres	120			
133	M59902011305	NB 12.000 INCHES; THICKNESS 25MM	Metres	20			
134	M59903000000	INSULATION TYPE : IH; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : 126 (DEG C) TO 350 (DEG C); INSULATION MATERIAL : ROCKWOOL					
135	M59903010000	PIPES					
136	M59903010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	20			
137	M59903010605	NB 0.750 INCHES; THICKNESS 30 MM	Metres	5			
138	M59903010705	NB 1.500 INCHES; THICKNESS 25 MM	Metres	75			
139	M59903010805	NB 1.500 INCHES; THICKNESS 30 MM	Metres	5			
140	M59903010905	NB 1.500 INCHES; THICKNESS 35 MM	Metres	10			

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					Figures	Words	
141	M59903011005	NB 1.500 INCHES; THICKNESS 45 MM	Metres	5			
142	M59903011105	NB 2.000 INCHES; THICKNESS 25 MM	Metres	90			
143	M59903011205	NB 2.000 INCHES; THICKNESS 30 MM	Metres	5			
144	M59903011305	NB 2.000 INCHES; THICKNESS 35 MM	Metres	165			
145	M59903011405	NB 2.000 INCHES; THICKNESS 50 MM	Metres	120			
146	M59903011505	NB 3.000 INCHES; THICKNESS 30 MM	Metres	25			
147	M59903011605	NB 4.000 INCHES; THICKNESS 25 MM	Metres	5			
148	M59903011705	NB 4.000 INCHES; THICKNESS 45 MM	Metres	5			
149	M59903011805	NB 6.000 INCHES; THICKNESS 30 MM	Metres	45			
150	M59903011905	NB 6.000 INCHES; THICKNESS 45 MM	Metres	15			
151	M59903012005	NB 6.000 INCHES; THICKNESS 55 MM	Metres	160			
152	M59903012505	NB 8.000 INCHES; THICKNESS 60 MM	Metres	160			
153	M59904000000	INSULATION TYPE : IS; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					
154	M59904010000	PIPES					
155	M59904010505	NB 2.000 INCHES; THICKNESS 25 MM	Metres	180			
156	M59904010605	NB 3.000 INCHES; THICKNESS 25 MM	Metres	120			
157	M59904010705	NB 4.000 INCHES; THICKNESS 25 MM	Metres	160			
158	M59904010805	NB 6.000 INCHES; THICKNESS 25 MM	Metres	220			
159	M59905000000	INSULATION TYPE : IH; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : INHIBITED ROCKWOOL					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
160	M59905010000	PIPES					
161	M59905010505	NB 2.000 INCHES; THICKNESS 25 MM	Metres	5			
162	M59905010605	NB 3.000 INCHES; THICKNESS 25 MM	Metres	5			
163	M59905010705	NB 4.000 INCHES; THICKNESS 25 MM	Metres	95			
164	M59905010805	NB 6.000 INCHES; THICKNESS 65 MM	Metres	10			
165	M59906000000	INSULATION TYPE : IS; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : INHIBITED ROCKWOOL					
166	M59906010000	PIPES					
167	M59906010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	5			
168	M59906010605	NB 1.500 INCHES; THICKNESS 25 MM	Metres	5			
169	M59906010705	NB 4.000 INCHES; THICKNESS 25 MM	Metres	5			
170	M59910000000	Removal of insulation from existing lines including all ancillary materials, vapour barrier, weather protective coverings etc. providing scaffolding for all heights, labour, material, tools and tackles, consumables supervision etc. to complete the work in all respects as per drawings and direction of Engineer-in-Charge for insulated piping as specified including all pipes, fittings, flanges, valves etc.					
171	M59910100000	INSULATION TYPE : IH; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					
172	M59910110000	PIPES					
173	M59910110101	NB 8.000 INCHES; THICKNESS 100 MM	Metres	30			
174	M59910110201	NB 12.000 INCHES; THICKNESS 100 MM	Metres	10			

	ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-11-16-43-MH-SOR-3070-0 SHEET 13 OF 27	Rev
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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
175	M59910210000	VALVE ASSEMBLIES					
176	M59910210101	NB 8.000 INCHES; THICKNESS 100 MM	NOs	2			
177	M59910210201	NB 12.000 INCHES; THICKNESS 100 MM	NOs	8			
178	M59910300000	INSULATION TYPE : IH; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : 126 (DEG C) TO 350 (DEG C); INSULATION MATERIAL : ROCKWOOL					
179	M59910310000	PIPES					
180	M59910310101	NB 16.000 INCHES; THICKNESS 150 MM	Metres	220			
181	M59910320000	VALVE ASSEMBLIES					
182	M59910320101	NB 16.000 INCHES; THICKNESS 150 MM	NOs	10			
183	M59910400000	INSULATION TYPE : IS; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO 125 (DEG C); INSULATION MATERIAL : ROCKWOOL					
184	M59910410000	PIPES					
185	M59910410101	NB 4.000 INCHES; THICKNESS 25 MM	Metres	80			
186	M59910410201	NB 8.000 INCHES; THICKNESS 25 MM	Metres	45			
187	M59910410301	NB 10.000 INCHES; THICKNESS 25 MM	Metres	60			
188	M59910410401	NB 12.000 INCHES; THICKNESS 25 MM	Metres	30			
189	M59910410501	NB 18.000 INCHES; THICKNESS 25 MM	Metres	40			
190	M59910410601	NB 6.000 INCHES; THICKNESS 25 MM	Metres	165			
191	M59910410701	NB 2.000 INCHES; THICKNESS 50 MM	Metres	60			
192	M59910410801	NB 12.000 INCHES; THICKNESS 100 MM	Metres	15			
193	M59910410901	NB 12.000 INCHES; THICKNESS 150 MM	Metres	45			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
194	M59910420000	VALVE ASSEMBLIES					
195	M59910420101	NB 2.000 INCHES; THICKNESS 50 MM	NOs	19			
196	M59910420201	NB 18.000 INCHES; THICKNESS 25 MM	NOs	1			
197	M59910500000	INSULATION TYPE : IS; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : 126 (DEG C) TO 350 (DEG C); INSULATION MATERIAL : ROCKWOOL					
198	M59910510000	PIPES					
199	M59910510101	NB 16.000 INCHES; THICKNESS 65 MM	Metres	10			
200	M59910510201	NB 16.000 INCHES; THICKNESS 150 MM	Metres	30			
201	MA00000000000	COLD INSULATION (UNITS): Providing thermal insulation including supply of all insulating and ancillary materials, Aluminium foil for SS surfaces, vapour barrier, weather protective coverings, consumables and other necessary materials , testing of materials as required , including transportation of materials to work site, duly inspected by 3rd party inspector(Llyods/BV/DNV or any other Client approved party) at manufacturer's shop & sample check/inspection at site by EIL Construction inspector, applying insulation on surfaces as specified including all preparatory works there on, binding, tying, lacing, stitching and/or otherwise securing , finishing with cladding as per spec., providing bolts, rivets, and self tapping screws wherever specified ,providing inspection windows, end seals for flanges etc., colour coding and identification. Providing steel scaffolding, all tools , tackles , equipments etc. , labour, supervision and completing the work in all respect, at all heights as per drawings , specifications and instructions of Engineer-in-charge. (Applicable EIL specification is 6-44-0003, for Cold Insulation and its addendum.)					
202	MA07000000000						

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
203	MA0765000000	INSULATION TYPE : IC; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO -45 (DEG C); INSULATION MATERIAL : POLYURETHANE FOAM(PUF)					
204	MA0765010000	PIPES					
205	MA0765010406	NB 0.500 INCHES; THICKNESS 30 MM	Metres	5			
206	MA0765010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	5			
207	MA0765010506	NB 0.750 INCHES; THICKNESS 30 MM	Metres	20			
208	MA0765010513	NB 0.750 INCHES; THICKNESS 65 MM	Metres	5			
209	MA0765010515	NB 0.750 INCHES; THICKNESS 75 MM	Metres	20			
210	MA0765010817	NB 1.500 INCHES; THICKNESS 85 MM	Metres	5			
211	MA0765010915	NB 2.000 INCHES; THICKNESS 75 MM	Metres	5			
212	MA0765011106	NB 3.000 INCHES; THICKNESS 30 MM	Metres	450			
213	MA0765011107	NB 3.000 INCHES; THICKNESS 35 MM	Metres	5			
214	MA0765011318	NB 4.000 INCHES; THICKNESS 90 MM	Metres	5			
215	MA0765011515	NB 6.000 INCHES; THICKNESS 75 MM	Metres	10			
216	MA0765011518	NB 6.000 INCHES; THICKNESS 90 MM	Metres	5			
217	MA0765011817	NB12.000 INCHES; THICKNESS 85 MM	Metres	20			
218	MA0765011821	NB12.000 INCHES; THICKNESS 105 MM	Metres	35			
219	MA0765020000	FLANGE ASSEMBLIES					
220	MA0765021106	NB 3.000 INCHES; THICKNESS 30 MM	NOs	2			
221	MA0765021817	NB12.000 INCHES; THICKNESS 85 MM	NOs	1			
222	MA0765021821	NB12.000 INCHES; THICKNESS 105 MM	NOs	3			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.	
					Figures	Words		
223	MA0765030000	BLIND FLANGE ASSEMBLIES						
224	MA0765030505	NB 0.750 INCHES; THICKNESS 25 MM	NOs	2				
225	MA0765030506	NB 0.750 INCHES; THICKNESS 30 MM	NOs	6				
226	MA0765030817	NB 1.500 INCHES; THICKNESS 85 MM	NOs	1				
227	MA0765031106	NB 3.000 INCHES; THICKNESS 30 MM	NOs	1				
228	MA0765031113	NB 3.000 INCHES; THICKNESS 65 MM	NOs	1				
229	MA0765031306	NB 4.000 INCHES; THICKNESS 30 MM	NOs	2				
230	MA0765031515	NB 6.000 INCHES; THICKNESS 75 MM	NOs	1				
231	MA0765040000	VALVE ASSEMBLIES						
232	MA0765040505	NB 0.750 INCHES; THICKNESS 25 MM	NOs	6				
233	MA0765040506	NB 0.750 INCHES; THICKNESS 30 MM	NOs	13				
234	MA0765040513	NB 0.750 INCHES; THICKNESS 65 MM	NOs	4				
235	MA0765040515	NB 0.750 INCHES; THICKNESS 75 MM	NOs	5				
236	MA0765040605	NB 1.000 INCHES; THICKNESS 25 MM	NOs	1				
237	MA0765040817	NB 1.500 INCHES; THICKNESS 85 MM	NOs	3				
238	MA0765040905	NB 2.000 INCHES; THICKNESS 25 MM	NOs	3				
239	MA0765040906	NB 2.000 INCHES; THICKNESS 30 MM	NOs	3				
240	MA0765040915	NB 2.000 INCHES; THICKNESS 75 MM	NOs	4				
241	MA0765041106	NB 3.000 INCHES; THICKNESS 30 MM	NOs	6				
242	MA0765041113	NB 3.000 INCHES; THICKNESS 65 MM	NOs	7				
243	MA0765041306	NB 4.000 INCHES; THICKNESS 30 MM	NOs	2				
244	MA0765041313	NB 4.000 INCHES; THICKNESS 65 MM	NOs	4				
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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
245	MA0765041507	NB 6.000 INCHES; THICKNESS 35 MM	NOs	1			
246	MA0765041515	NB 6.000 INCHES; THICKNESS 75 MM	NOs	4			
247	MA0765041821	NB12.000 INCHES; THICKNESS 105 MM	NOs	1			
248	MA0769000000	INSULATION TYPE : IC; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : BELOW -45 (DEG C); INSULATION MATERIAL : POLYURETHANE FOAM(PUF)					
249	MA0769010000	PIPES					
250	MA0769010505	NB 0.750 INCHES; THICKNESS 25 MM	Metres	5			
251	MA0769010520	NB 0.750 INCHES; THICKNESS 100 MM	Metres	5			
252	MA0769010521	NB 0.750 INCHES; THICKNESS 105 MM	Metres	5			
253	MA0769010522	NB 0.750 INCHES; THICKNESS 110 MM	Metres	5			
254	MA0769010525	NB 0.750 INCHES; THICKNESS 125 MM	Metres	10			
255	MA0769010526	NB 0.750 INCHES; THICKNESS 130 MM	Metres	5			
256	MA0769010527	NB 0.750 INCHES; THICKNESS 135 MM	Metres	10			
257	MA0769010529	NB 0.750 INCHES; THICKNESS 145 MM	Metres	5			
258	MA0769010532	NB 0.750 INCHES; THICKNESS 160 MM	Metres	5			
259	MA0769010543	NB 0.750 INCHES; THICKNESS 215 MM	Metres	10			
260	MA0769010616	NB 1.000 INCHES; THICKNESS 80 MM	Metres	5			
261	MA0769010618	NB 1.000 INCHES; THICKNESS 90 MM	Metres	5			
262	MA0769010619	NB 1.000 INCHES; THICKNESS 95 MM	Metres	5			
263	MA0769010621	NB 1.000 INCHES; THICKNESS 105 MM	Metres	15			
264	MA0769010625	NB 1.000 INCHES; THICKNESS 125 MM	Metres	5			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
265	MA0769010634	NB 1.000 INCHES; THICKNESS 170 MM	Metres	5			
266	MA0769010811	NB 1.500 INCHES; THICKNESS 55 MM	Metres	5			
267	MA0769010817	NB 1.500 INCHES; THICKNESS 85 MM	Metres	5			
268	MA0769010821	NB 1.500 INCHES; THICKNESS 105 MM	Metres	20			
269	MA0769010823	NB 1.500 INCHES; THICKNESS 115 MM	Metres	5			
270	MA0769010824	NB 1.500 INCHES; THICKNESS 120 MM	Metres	5			
271	MA0769010828	NB 1.500 INCHES; THICKNESS 140 MM	Metres	5			
272	MA0769010906	NB 2.000 INCHES; THICKNESS 30 MM	Metres	5			
273	MA0769010910	NB 2.000 INCHES; THICKNESS 50 MM	Metres	20			
274	MA0769010918	NB 2.000 INCHES; THICKNESS 90 MM	Metres	5			
275	MA0769010920	NB 2.000 INCHES; THICKNESS 100 MM	Metres	5			
276	MA0769010925	NB 2.000 INCHES; THICKNESS 125 MM	Metres	200			
277	MA0769010927	NB 2.000 INCHES; THICKNESS 135 MM	Metres	60			
278	MA0769010932	NB 2.000 INCHES; THICKNESS 160 MM	Metres	5			
279	MA0769010934	NB 2.000 INCHES; THICKNESS 170 MM	Metres	65			
280	MA0769010943	NB 2.000 INCHES; THICKNESS 215 MM	Metres	5			
281	MA0769011106	NB 3.000 INCHES; THICKNESS 30 MM	Metres	5			
282	MA0769011120	NB 3.000 INCHES; THICKNESS 100 MM	Metres	95			
283	MA0769011122	NB 3.000 INCHES; THICKNESS 110 MM	Metres	5			
284	MA0769011125	NB 3.000 INCHES; THICKNESS 125 MM	Metres	5			
285	MA0769011126	NB 3.000 INCHES; THICKNESS 130 MM	Metres	5			
286	MA0769011127	NB 3.000 INCHES; THICKNESS 135 MM	Metres	75			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
287	MA0769011129	NB 3.000 INCHES; THICKNESS 145 MM	Metres	5			
288	MA0769011322	NB 4.000 INCHES; THICKNESS 110 MM	Metres	50			
289	MA0769011324	NB 4.000 INCHES; THICKNESS 120 MM	Metres	5			
290	MA0769011326	NB 4.000 INCHES; THICKNESS 130 MM	Metres	35			
291	MA0769011327	NB 4.000 INCHES; THICKNESS 135 MM	Metres	5			
292	MA0769011329	NB 4.000 INCHES; THICKNESS 145 MM	Metres	30			
293	MA0769011334	NB 4.000 INCHES; THICKNESS 170 MM	Metres	5			
294	MA0769011524	NB 6.000 INCHES; THICKNESS 120 MM	Metres	100			
295	MA0769011529	NB 6.000 INCHES; THICKNESS 145 MM	Metres	15			
296	MA0769011532	NB 6.000 INCHES; THICKNESS 160 MM	Metres	15			
297	MA0769011610	NB 8.000 INCHES; THICKNESS 50 MM	Metres	5			
298	MA0769011624	NB 8.000 INCHES; THICKNESS 120 MM	Metres	40			
299	MA0769011629	NB 8.000 INCHES; THICKNESS 145 MM	Metres	5			
300	MA0769011630	NB 8.000 INCHES; THICKNESS 150 MM	Metres	140			
301	MA0769011632	NB 8.000 INCHES; THICKNESS 160 MM	Metres	5			
302	MA0769011634	NB 8.000 INCHES; THICKNESS 170 MM	Metres	55			
303	MA0769011639	NB 8.000 INCHES; THICKNESS 195 MM	Metres	5			
304	MA0769011643	NB 8.000 INCHES; THICKNESS 215 MM	Metres	5			
305	MA0769011730	NB10.000 INCHES; THICKNESS 150 MM	Metres	30			
306	MA0769011828	NB12.000 INCHES; THICKNESS 140 MM	Metres	60			
307	MA0769011834	NB12.000 INCHES; THICKNESS 170 MM	Metres	5			
308	MA0769011938	NB14.000 INCHES; THICKNESS 190 MM	Metres	65			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
309	MA0769012038	NB16.000 INCHES; THICKNESS 190 MM	Metres	30			
310	MA0769012039	NB16.000 INCHES; THICKNESS 195 MM	Metres	30			
311	MA0769012043	NB16.000 INCHES; THICKNESS 215 MM	Metres	95			
312	MA0769012110	NB18.000 INCHES; THICKNESS 50 MM	Metres	10			
313	MA0769020000	FLANGE ASSEMBLIES					
314	MA0769020505	NB 0.750 INCHES; THICKNESS 25 MM	NOs	4			
315	MA0769020520	NB 0.750 INCHES; THICKNESS 100 MM	NOs	3			
316	MA0769020522	NB 0.750 INCHES; THICKNESS 110 MM	NOs	2			
317	MA0769020529	NB 0.750 INCHES; THICKNESS 145 MM	NOs	1			
318	MA0769020616	NB 1.000 INCHES; THICKNESS 80 MM	NOs	2			
319	MA0769020618	NB 1.000 INCHES; THICKNESS 90 MM	NOs	1			
320	MA0769020619	NB 1.000 INCHES; THICKNESS 95 MM	NOs	2			
321	MA0769020621	NB 1.000 INCHES; THICKNESS 105 MM	NOs	3			
322	MA0769020811	NB 1.500 INCHES; THICKNESS 55 MM	NOs	1			
323	MA0769020817	NB 1.500 INCHES; THICKNESS 85 MM	NOs	1			
324	MA0769020821	NB 1.500 INCHES; THICKNESS 105 MM	NOs	2			
325	MA0769020823	NB 1.500 INCHES; THICKNESS 115 MM	NOs	1			
326	MA0769020925	NB 2.000 INCHES; THICKNESS 125 MM	NOs	2			
327	MA0769021127	NB 3.000 INCHES; THICKNESS 135 MM	NOs	1			
328	MA0769021322	NB 4.000 INCHES; THICKNESS 110 MM	NOs	1			
329	MA0769021329	NB 4.000 INCHES; THICKNESS 145 MM	NOs	1			
330	MA0769021524	NB 6.000 INCHES; THICKNESS 120 MM	NOs	3			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
331	MA0769021532	NB 6.000 INCHES; THICKNESS 160 MM	NOS	1			
332	MA0769021610	NB 8.000 INCHES; THICKNESS 50 MM	NOS	1			
333	MA0769021630	NB 8.000 INCHES; THICKNESS 150 MM	NOS	5			
334	MA0769021634	NB 8.000 INCHES; THICKNESS 170 MM	NOS	2			
335	MA0769021828	NB12.000 INCHES; THICKNESS 140 MM	NOS	1			
336	MA0769021938	NB14.000 INCHES; THICKNESS 190 MM	NOS	3			
337	MA0769022029	NB16.000 INCHES; THICKNESS 145 MM	NOS	5			
338	MA0769022039	NB16.000 INCHES; THICKNESS 195 MM	NOS	2			
339	MA0769022043	NB16.000 INCHES; THICKNESS 215 MM	NOS	3			
340	MA0769030000	BLIND FLANGE ASSEMBLIES					
341	MA0769030520	NB 0.750 INCHES; THICKNESS 100 MM	NOS	1			
342	MA0769030521	NB 0.750 INCHES; THICKNESS 105 MM	NOS	5			
343	MA0769030525	NB 0.750 INCHES; THICKNESS 125 MM	NOS	5			
344	MA0769030526	NB 0.750 INCHES; THICKNESS 130 MM	NOS	1			
345	MA0769030527	NB 0.750 INCHES; THICKNESS 135 MM	NOS	4			
346	MA0769030529	NB 0.750 INCHES; THICKNESS 145 MM	NOS	2			
347	MA0769030634	NB 1.000 INCHES; THICKNESS 170 MM	NOS	1			
348	MA0769030828	NB 1.500 INCHES; THICKNESS 140 MM	NOS	1			
349	MA0769030927	NB 2.000 INCHES; THICKNESS 135 MM	NOS	1			
350	MA0769030934	NB 2.000 INCHES; THICKNESS 170 MM	NOS	1			
351	MA0769031122	NB 3.000 INCHES; THICKNESS 110 MM	NOS	1			
352	MA0769031125	NB 3.000 INCHES; THICKNESS 125 MM	NOS	1			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
353	MA0769031126	NB 3.000 INCHES; THICKNESS 130 MM	NOS	1			
354	MA0769031127	NB 3.000 INCHES; THICKNESS 135 MM	NOS	1			
355	MA0769031129	NB 3.000 INCHES; THICKNESS 145 MM	NOS	2			
356	MA0769031326	NB 4.000 INCHES; THICKNESS 130 MM	NOS	5			
357	MA0769031329	NB 4.000 INCHES; THICKNESS 145 MM	NOS	2			
358	MA0769031629	NB 8.000 INCHES; THICKNESS 145 MM	NOS	2			
359	MA0769032029	NB16.000 INCHES; THICKNESS 145 MM	NOS	5			
360	MA0769032039	NB16.000 INCHES; THICKNESS 195 MM	NOS	2			
361	MA0769032043	NB16.000 INCHES; THICKNESS 215 MM	NOS	3			
362	MA0769040000	VALVE ASSEMBLIES					
363	MA0769040505	NB 0.750 INCHES; THICKNESS 25 MM	NOS	4			
364	MA0769040520	NB 0.750 INCHES; THICKNESS 100 MM	NOS	8			
365	MA0769040521	NB 0.750 INCHES; THICKNESS 105 MM	NOS	5			
366	MA0769040522	NB 0.750 INCHES; THICKNESS 110 MM	NOS	4			
367	MA0769040525	NB 0.750 INCHES; THICKNESS 125 MM	NOS	9			
368	MA0769040526	NB 0.750 INCHES; THICKNESS 130 MM	NOS	4			
369	MA0769040527	NB 0.750 INCHES; THICKNESS 135 MM	NOS	9			
370	MA0769040529	NB 0.750 INCHES; THICKNESS 145 MM	NOS	7			
371	MA0769040543	NB 0.750 INCHES; THICKNESS 215 MM	NOS	2			
372	MA0769040618	NB 1.000 INCHES; THICKNESS 90 MM	NOS	1			
373	MA0769040621	NB 1.000 INCHES; THICKNESS 105 MM	NOS	4			
374	MA0769040625	NB 1.000 INCHES; THICKNESS 125 MM	NOS	1			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
375	MA0769040634	NB 1.000 INCHES; THICKNESS 170 MM	NOS	1			
376	MA0769040811	NB 1.500 INCHES; THICKNESS 55 MM	NOS	2			
377	MA0769040817	NB 1.500 INCHES; THICKNESS 85 MM	NOS	2			
378	MA0769040821	NB 1.500 INCHES; THICKNESS 105 MM	NOS	4			
379	MA0769040823	NB 1.500 INCHES; THICKNESS 115 MM	NOS	4			
380	MA0769040824	NB 1.500 INCHES; THICKNESS 120 MM	NOS	1			
381	MA0769040828	NB 1.500 INCHES; THICKNESS 140 MM	NOS	2			
382	MA0769040918	NB 2.000 INCHES; THICKNESS 90 MM	NOS	3			
383	MA0769040920	NB 2.000 INCHES; THICKNESS 100 MM	NOS	2			
384	MA0769040922	NB 2.000 INCHES; THICKNESS 110 MM	NOS	2			
385	MA0769040925	NB 2.000 INCHES; THICKNESS 125 MM	NOS	16			
386	MA0769040927	NB 2.000 INCHES; THICKNESS 135 MM	NOS	5			
387	MA0769040932	NB 2.000 INCHES; THICKNESS 160 MM	NOS	1			
388	MA0769040934	NB 2.000 INCHES; THICKNESS 170 MM	NOS	5			
389	MA0769040943	NB 2.000 INCHES; THICKNESS 215 MM	NOS	5			
390	MA0769041106	NB 3.000 INCHES; THICKNESS 30 MM	NOS	1			
391	MA0769041120	NB 3.000 INCHES; THICKNESS 100 MM	NOS	2			
392	MA0769041122	NB 3.000 INCHES; THICKNESS 110 MM	NOS	3			
393	MA0769041127	NB 3.000 INCHES; THICKNESS 135 MM	NOS	6			
394	MA0769041322	NB 4.000 INCHES; THICKNESS 110 MM	NOS	3			
395	MA0769041329	NB 4.000 INCHES; THICKNESS 145 MM	NOS	6			
396	MA9900000000	COLD INSULATION (UNITS): (INSULATION MATERIAL					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		SUPPLIED BY OWNER) Providing thermal insulation excluding supply of insulation material which shall be supplied by owner but including supply of all ancillary materials, aluminium foil for SS surfaces, vapour barrier, weather protective coverings, consumables and other necessary materials , testing of materials as required , including transportation of materials to work site, duly inspected by 3rd party inspector Lyods/BV/DNV or any other Client approved party) at manufacturer's shop & sample check/inspection at site by EIL Construction inspector, applying insulation on surfaces as specified including all preparatory works there on, binding, tying, lacing, stitching and/or otherwise securing , finishing with cladding as per spec., providing bolts, rivets, and self tapping screws wherever specified ,providing inspection windows, end seals for flanges etc., colour coding and identification. Providing steel scaffolding, all tools , tackles , equipments etc. , labour, supervision and completing the work in all respect, at all heights as per drawings , specifications and instructions of Engineer-in-charge. (Applicable EIL specification is 6-44-0003, for Cold Insulation and its addendum.)					
397	MA9902000000	INSULATION TYPE : IC; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : UPTO -45 (DEG C); INSULATION MATERIAL : POLYURETHANE FOAM(PUF)					
398	MA9902010000	PIPES					
399	MA9902010105	NB 1.000 INCHES; THICKNESS 25 MM	Metres	5			
400	MA9902010205	NB 1.000 INCHES; THICKNESS 50 MM	Metres	5			
401	MA9902010305	NB 2.000 INCHES; THICKNESS 25 MM	Metres	35			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
402	MA9902010405	NB 2.000 INCHES; THICKNESS 30 MM	Metres	125			
403	MA9902010505	NB 2.000 INCHES; THICKNESS 65 MM	Metres	5			
404	MA9902010605	NB 3.000 INCHES; THICKNESS 30 MM	Metres	190			
405	MA9902010705	NB 3.000 INCHES; THICKNESS 65 MM	Metres	115			
406	MA9902010805	NB 4.000 INCHES; THICKNESS 30 MM	Metres	25			
407	MA9902010905	NB 4.000 INCHES; THICKNESS 65 MM	Metres	95			
408	MA9902011005	NB 6.000 INCHES; THICKNESS 35 MM	Metres	30			
409	MA9902011105	NB 6.000 INCHES; THICKNESS 75 MM	Metres	50			
410	MA9902011205	NB 6.000 INCHES; THICKNESS 90 MM	Metres	10			
411	MA9903000000	INSULATION TYPE : IC; SURFACE MATERIAL : SS; OPERATING TEMP. RANGE : BELOW -45 (DEG C); INSULATION MATERIAL : POLYURETHANE FOAM(PUF)					
412	MA9903010000	PIPES					
413	MA9903010105	NB 0.750 INCHES; THICKNESS 195 MM	Metres	10			
414	MA9903010205	NB 2.000 INCHES; THICKNESS 110 MM	Metres	5			
415	MA9903010305	NB 2.000 INCHES; THICKNESS 125 MM	Metres	35			
416	MA9903010405	NB 12.000 INCHES; THICKNESS 140 MM	Metres	5			
417	MA9903010505	NB14.000 INCHES; THICKNESS 190 MM	Metres	20			
418	MA9903010605	NB 16.000 INCHES; THICKNESS 145 MM	Metres	20			
419	MA9904000000	SUPPLY & WRAPPING WITH POLYURETHANE FOAM (PUF) AFTER CLEANING THE IMPULSE LINES OF DUST, RUST, GREASE .THE WRAPPING OF THE ROPE AROUND IMPULSE LINE SHALL OVER IT COMPLETELY WITHOUT LEAVING ANY GAP. FOR					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
420	MA9904010000	OTHER DETAILS REFER '6-44-0003 FOR COLD NSULATION'.					
421	MA9904010101	INSULATION MATERIAL : POLYURETHANE FOAM (PUF)	Metres	205			
422	MA9905000000	SIZE:- 0.5 INCH					
423	MA9905100000	Removal of insulation from existing lines including all ancillary materials, vapour barrier, weather protective coverings etc. providing scaffolding for all heights, labour, material, toolsand tackles, consumables supervision etc. to complete the work in all respects as per drawings and direction of Engineer-in-Charge for insulated piping as specified including all pipes, fittings, flanges, valves etc.					
424	MA9905110000	INSULATION TYPE : IC; SURFACE MATERIAL : CS & AS; OPERATING TEMP. RANGE : BELOW -45 (DEG C); INSULATION MATERIAL : POLYURETHANE FOAM(PUF)					
425	MA9905110101	PIPES	Metres	15			
426	MA9905110201	NB 2.000 INCHES; THICKNESS 50 MM	Metres	40			
427	MA9905110301	NB 2.000 INCHES; THICKNESS 135 MM	Metres	5			
428	MA9905110401	NB 8.000 INCHES; THICKNESS 50 MM	Metres	25			
429	MA9905110501	NB 10.000 INCHES; THICKNESS 150 MM	Metres	30			
430	MA9905110601	NB 16.000 INCHES; THICKNESS 190 MM	Metres	5			
431	MA9905120000	NB 18.000 INCHES; THICKNESS 50 MM					
432	MA9905120101	FLANGE ASSEMBLIES	NOs	1			
		NB 8.000 INCHES; THICKNESS 50 MM					

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Schedule of Rates
for

Tender No.	6907-11-16-43-MH-T-3070	Part 0	0				PVSS	KJH
Tender Name	BALANCE INSULATION WORKS AT LAKWA							
			REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES			Rev
		Date	Bidder's Signature	Div.: STATIC EQUIPMI Dept.: SED AND TRAY(M	6907-11-80-41-MH-SOR-3070-0 SHEET 1 OF 12			0

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	VV	STATIC EQUIPMENT					
2	V252.00.00	HOT INSULATION Providing thermal insulation including supply of all insulating and anciliary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002).					
3	V252.01.00V02	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IH &IT (Rockwool). (INSULATION THICKNESS - 30 mm)	M2	10.5			
4	V252.01.00V05	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IH &IT (Rockwool). (INSULATION THICKNESS - 45 mm)	M2	1.9			
5	V252.01.00V16	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IH &IT (Rockwool). (INSULATION THICKNESS - 100 mm)	M2	2			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
6	V252.03.00V06	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material : SS. Insulation type : IH &IT (Rockwool). (INSULATION THICKNESS - 50 mm)	M2	11			
7	V252.07.00	Shell of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: SS. Insulation type: IS;					
8	V252.07.01V01	(INSULATION THICKNESS - 25 mm)	M2	72			
9	V262.00.00	COLD INSULATION Providing cold insulation including supply of all insulating and ancillary material, protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self tapping screws wherever specified, providing inspection windows etc. providing necessary scaffolding, all tools and tackles, equipment, apparatus etc. labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0003).					
10	V262.07.00V26	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG. (INSULATION THICKNESS - 150 mm)	M2	18.5			
11	V262.07.00V27	Shells of vertical vessels, columns, exchangers, reactors,	M2	57			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
12	V262.07.00V37	silencers etc. Surface material: SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG. (INSULATION THICKNESS - 155 mm)	M2	48			
13	V262.08.00V06	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG. (INSULATION THICKNESS - 215 mm) cc-001, vv-007	M2	2			
14	V262.08.00V27	Shells and heads of horizontal vessels, columns, reactors, exchangers, silencers etc and heads of above mentioned vertical equipments. Surface material SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG. (INSULATION THICKNESS - 50 mm)	M2	10			
15	V262.08.00V32	Shells and heads of horizontal vessels, columns, reactors, exchangers, silencers etc and heads of above mentioned vertical equipments. Surface material SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG. (INSULATION THICKNESS - 155 mm)	M2	1			
16	V999.00.00	Miscellaneous					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
17	V999.99.00	Miscellaneous					
18	V999.99.99V04	HOT INSULATION Providing thermal insulation including supply of all insulating and anciliary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002). Shells of vertical exchanger etc. Surface material: CS/AS. Insulation type : IH (PUF). (INSULATION THICKNESS - 125 mm)	SQM	7.2			
19	V999.99.99V05	COLD INSULATION Providing cold insulation including supply of all insulating and anciliary material, protective covering, consumables and other necessary materials, testing of the material as required including transportationof the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self tapping screws wherever specified, providing inspection windows etc. providing necessary scaffolding, all tools and tackles, equipment, apparatus etc. labour and supervision and completing the work in all respect at all heights as per drawings,	SQM	28			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
20	V999.99.99V06	specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0003). Shells and heads of horizontal vessel, columns, heat exchangers and heads of above mentioned vertical equipments Surface material: SS. Insulation type: Ic (Polyurethane foam). Service: Other than LNG (INSULATION THICKNESS - 215 mm) Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge (Applicable Specification 6-44-0002) for: Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IH &IT (Rockwool). INSULATION THK 25 mm.	SQM	66			
21	V999.99.99V07	Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all	SQM	3			
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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
22	V999.99.99V08	binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge (Applicable Specification 6-44-0002) for: Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IH &IT (Rockwool). INSULATION THK 45 mm. Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge (Applicable Specification 6-44-0002) for: Shells & heads of horizontal vessels, columns, exchangers, reactors, silencers etc.heads of above mentioned vertical equipments, Surface material: CS/AS. Insulation type : IH &IT (Rockwool). INSULATION THK 25 mm.	SQM	116			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
23	V999.99.99V09	Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge (Applicable Specification 6-44-0002) for: Shells & heads of horizontal vessels, columns, exchangers, reactors, silencers etc.heads of above mentioned vertical equipments, Surface material: CS/AS. Insulation type : IH &IT (Rockwool). INSULATION THK 30 mm.	SQM	7			
24	V999.99.99V10	Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all	SQM	74			

	ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES	Rev
					Div.: STATIC EQUIPMI Dept.: SED AND TRAY(N	6907-11-80-41-MH-SOR-3070-0	0
			Date	Bidder's Signature	SHEET 8 OF 12		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
25	V999.99.99V12	heights as per drawings, specifications and instructions of Engineer-in-Charge (Applicable Specification 6-44-0002) for: Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS. Insulation type : IS (Rockwool). INSULATION THK 25 mm. Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002) Shells & heads of horizontal vessels, columns, exchangers, reactors, silencers etc.heads of above mentioned vertical equipments, Surface material: SS. Insulation type : Ic (Polyurethane foam). INSULATION THK 180 mm.	SQM	8			
26	V999.99.99V13	Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing,	SQM	2.5			

 ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-11-80-41-MH-SOR-3070-0	Rev 0
				Div.: STATIC EQUIPMI Dept.: SED AND TRAY(M	SHEET 9 OF 12	

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
27	V999.99.99V14	providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002) Shells of vertical exchanger etc. Surface material: CS/AS. Insulation type : IH (PUF). (INSULATION THICKNESS - 90 mm) Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002)	SQM	129			
28	V999.99.99V15	Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material : SS. Insulation type IH & IT (Rockwool). Insulation thk- 50 mm Contractor's scope is providing thermal insulation , including supply of insulation and ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required	SQM	140			



ENGINEERS INDIA LTD
NEW DELHI

**Bidder's
Stamp**

Date

**Bidder's
Signature**

Client : BRAHMPUTRA CRACKER & POLY.LT
Project : BCPL CRACKER COMPLEX, ASSAM
Div.: STATIC EQUIPMI Dept.: SED AND TRAY(M

SCHEDULE OF RATES

6907-11-80-41-MH-SOR-3070-0

SHEET 10 OF 12

Rev

0

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002) Shells of vertical vessels, columns, exchangers, reactors, silencers etc. Surface material: CS/AS/SS. Insulation type : IH &IT (Rockwool). - INSULATION THICKNESS 300 mm ,					
29	V999.99.99V16	Removal of insulation of existing equipment	SQM	370			
30	V999.99.99V17	Insulation material is free issue material, i.e. supplied to contractor free of cost. Contractor's scope includes supply of ancillary material, weather protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, self-tapping screws wherever specified, providing inspection windows etc., providing necessary scaffolding, all tools and tackles, equipment, apparatus etc., labour and supervision and completing the work in all respect at all heights as per drawings, specifications and instructions of Engineer-in-Charge. (Applicable Specification 6-44-0002). Vertical shells. Surface material: SS, Insulation Type: Ic	SQM	27			

	ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-11-80-41-MH-SOR-3070-0	Rev 0
					Div.: STATIC EQUIPMI Dept.: SED AND TRAY(M	SHEET 11 OF 12	

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		(Polyurethane foam). Insulation thickness-215mm					

	ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-11-80-41-MH-SOR-3070-0 SHEET 12 OF 12	Rev
			Date	Bidder's Signature	Div.: STATIC EQUIPM Dept.: SED AND TRAY(M		0

Schedule of Rates
for

Tender No.	6907-11-16-43-MH-T-3070	Part 0	0		Issued for Tender		NK	NK
Tender Name	BALANCE INSULATION WORKS AT LAKWA							
			REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES			Rev
		Date	Bidder's Signature	Div.: MACHINERY EQ Dept.: MACHINERY EQU	6907-11-82-41-MH-SOR-3070-0 SHEET 1 OF 3			0

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	R000.00.00	Rotating Equipment					
2	R999.00.00	Miscellaneous					
3	R999.99.00	Miscellaneous					
4	R999.99.99V07	Installation & application of Cold Insulation to the following including supply of all insulating and ancillary material, protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing, providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, selftapping screws wherever specified, providing inspection windows etc. providing necessary scaffolding, all tools and tackles, equipment, apparatus etc. labour and supervision and completing the work in all respects at all heights as per drawings, specifications and instructions of Engineer-in-charge(applicable specification 6-44-0003). For the Suction Barrel/Can of 11-PA-008 A/B, 11-PA-010 A/B & 11-PA-011 A/B. Surface material SS-304L, Insulation type IC (PUF:Polyurethane foam), Insulation thickness 200 mm in each case, as per the instructions of Engineer-In-Charge	SQM	6			
5	R999.99.99V08	Supply, Installation & Application of cold insulation to the following including supply of all insulating and ancillary material, protective covering, consumables and other necessary materials, testing of the material as required including transportation of the materials to work sites, applying insulation on surfaces as specified, including all preparatory works thereon, all binding, tying, lacing, stitching and/or otherwise securing,	SQM	2.2			

 ENGINEERS INDIA LTD NEW DELHI	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES			Rev
				Div.: MACHINERY EQl Dept.: MACHINERY EQl	6907-11-82-41-MH-SOR-3070-0			0
					SHEET	2	OF	3

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		providing vapour barrier, finishing with plain/corrugated sheet cladding or as specified, providing bolts, rivets, selftapping screws wherever specified, providing inspection windows etc. providing necessary scaffolding, all tools and tackles, equipment, apparatus etc. labour and supervision and completing the work in all respects at all heights as per drawings, specifications and instructions of Engineer-in-charge(applicable specification 6-44-0003). For the Suction Barrel/Can of 11-PA-008 A/B, 11-PA-010 A/B & 11-PA-011 A/B. Surface material SS-304L, Insulation type IC (PUF:Polyurethane foam), Insulation thickness 200 mm in each case, as per the instructions of Engineer-In-Charge					
 ENGINEERS INDIA LTD NEW DELHI		Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM Div.: MACHINERY EQL Dept.: MACHINERY EQL	SCHEDULE OF RATES 6907-11-82-41-MH-SOR-3070-0 SHEET 3 OF 3	Rev 0

PART OF UNPRICED SOR

Total (Rs) (In Figure)	
Total (Rs) (In Words)	

Note:

- 1) Above prices are inclusive of all taxes & duties and exclusive of service tax. Excise Duty and service tax is payable on submission of proper cenvatable invoice.
- 2) Bids would be evaluated on overall lowest cost bid basis. Accordingly, all SOR items need to be quoted otherwise bid will be liable for rejection.

(SIGNATURE & SEAL OF BIDDER)

PART OF UNPRICED SOR

FORM SP-3

DETAILS OF CENVATABLE SERVICE TAX

S.No.	Description	AMOUNT OF TAXABLE VALUE OF SERVICES (Base value)	Effective rate of tax (%)	Amount of Cenvatable Service Tax
(a)	(b)	(c)	(d)	(e=cxd)
1	CENVATABLE SERVICE TAX			

NOTE:

1. Amount of Cenvatable Service Tax shall not be included by the Contractor in their quoted price. OWNER will reimburse the Cenvatable service tax to the CONTRACTOR against production of original Cenvatable documents as required subject to amount of taxable value of services at Column (c) above . In case any variation in quantities of SOR then this amount shall vary proportionately.
2. Effective rate of Service Tax under column no (d) shall be indicated by Contractor after considering the applicable rules and follow the provisions of the Service tax including Government of India latest Notifications & subsequent amendments, if any
3. Bidder shall furnish this Form duly filled in all respects along with Price part.
4. Contractor shall indicate total Cenvatable service tax amount payable under the contract in this format . However, if the services fall under the list of services defined in reverse charge mechanism, then the liability of deposition of service tax to the tax authority by the Contractor and the Owner shall be dealt in accordance with Notifications issued by Government of India from time to time

(SIGNATURE & SEAL OF BIDDER)

PART OF UNPRICED SOR

FORM SP-4A

DETAILS OF EXCISE DUTY INCLUDED IN QUOTED PRICES FOR INDIGENOUS SUPPLIES

S.No.	DESCRIPTION	Amount on which Excise Duty is applicable (In Rupees)	Amount of Cenvatable Excise Duty Included (In Rupees)
(a)	(b)	(c)	(d)
1	EXCISE DUTY		

NOTE:

1. Above Cenvatable Excise duty amount shall be deducted from the Total Prices for the purpose of evaluation
2. Cenvatable Excise Duty Component mentioned in this FORM shall be considered as mandatory discount and shall be adjusted from all R.A. Bills on prorata basis. The Cenvatable Excise Duty shall be reimbursed to the Contractor upon submission of original Cenvatable documents as required to enable Owner to claim Cenvat benefit subject to the ceiling mentioned in this FORM.
3. Bidder shall furnish this FORM duly filled in all respects along with his Price Part.

(SIGNATURE & SEAL OF BIDDER)

PART OF UNPRICED SOR

FORM SP-4B

DETAILS OF CVD AND SAD INCLUDED IN QUOTED PRICES FOR INDIGENOUS SUPPLIES

S.No.	DESCRIPTION	AMOUNT IN INDIAN RUPEES (IN INR)	
		IN FIGURES	IN WORDS
(a)	(b)	(c)	(d)
1	Total Cenvatable CVD		
2	Total Cenvatable SAD		

NOTE:

1. Cenvatable CVD and SAD amount mentioned above shall be furnished only with respect to Imported supplies.
2. Above Cenvatable CVD and SAD amount as mentioned above shall be deducted from the Total Prices for the purpose of evaluation.
3. Cenvatable CVD and SAD amount as mentioned above shall be considered as mandatory discount since the same has been taken into consideration for evaluation and shall be deducted from all running account bills (of supplies) on prorata basis. The amount of Cenvatable CVD and SAD amount shall be reimbursed to the Contractor on production of all relevant documents in accordance with provision of bidding document subject to ceiling mentioned above.
4. Bidder shall consider Marine Insurance @1% to arrive at the CIF value and thereby calculate Cenevatble CVD and SAD amount.