

INPUT TO E&C TENDER**PROJECT: RIL CCPP 4 x 93.1 MW STG (HMD)****WONO: 1-0-851-358-00****ESTIMATED PIPING PAINTING AREA**

SL NO	LINE NUMBER	MATERIAL	WORK TEMP [Deg C]	NB	OD [mm]	PIPE LENGTH [m]	NO OF UNITS	PER UNIT PAINT AREA [Sq.m]	TOTAL PAINT AREA [Sq.m]
A	INSULATED PIPES								
1	HSAB-BSS-BHL-0-B051-10-65C-HC	AS	530	250	273.1	39.66	1	40.84	40.84
2	HSAB-BSS-BHL-0-B052-10-65C-HC	AS	530	250	273.1	1.5	1	1.55	1.55
3	HSAB-BSS-BHL-0-B053-10-65C-HC	AS	530	250	273.1	3.24	1	3.34	3.34
4	HSAB-BSS-BHL-0-B054-32-23C-HC	AS	474	800	819	1	1	3.08	3.08
5	HSAB-BSS-BHL-0-B055-32-23C-HC	AS	474	800	819	1	1	3.08	3.08
6	HSAB-HS-BHL-0-B001-20-65C-HC	AS	530	500	508	6.29	1	12.05	12.05
7	HSAB-HS-BHL-0-B002-20-65C-HC	AS	530	500	508	6.29	1	12.05	12.05
8	HSAB-HS-BHL-0-B003-20-65C-HC	AS	530	500	508	116.8	1	223.68	223.68
9	HSAB-HS-BHL-0-B004-20-65C-HC	AS	530	500	508	111.8	1	214.1	214.10
10	HSAB-HS-BHL-0-B010-4-65C-HC	AS	530	100	114.3	22.11	1	9.53	9.53
11	HSAB-HS-BHL-0-B201-1.5-65C-HC	AS	530	40	48.3	1.3	1	0.24	0.24
12	HSAB-HS-BHL-0-B202-1.5-65C-HC	AS	530	40	48.3	1.89	1	0.35	0.35
13	HSAB-HS-BHL-0-B251-3-65C-HC	AS	530	80	88.9	1.77	1	0.59	0.59
14	HSAB-HS-BHL-0-B252-3-65C-HC	AS	530	80	88.9	1	1	0.34	0.34
15	HSSA-AXS-BHL-0-B203-3-23C-HC	AS	480	80	88.9	9.31	1	3.12	3.12
16	HSSA-AXS-BHL-0-B206-3-23C-HC	AS	480	80	88.9	8.84	1	2.96	2.96
17	HSSA-AXS-BHL-0-B253-10-23C-HC	AS	475.9	250	273.1	14.26	1	14.68	14.68
18	HSSA-AXS-BHL-0-B256-10-23C-HC	AS	475.9	250	273.1	14.02	1	14.44	14.44
19	HSAB-BSS-BHL-0-B062-28-11C-HC	CS	200	700	711	139.4	1	373.64	373.64
20	HSAE-FDW-BHL-0-B651-18-61C-HC	CS	236.5	450	457	58.49	1	100.76	100.76
21	HSAE-FDW-BHL-0-B652-18-61C-HC	CS	236.5	450	457	73.67	1	126.92	126.92
22	HSAE-FDW-BHL-0-B653-18-61C-HC	CS	236.5	450	457	14.93	1	25.73	25.73
23	HSAE-FDW-BHL-0-B654-18-61C-HC	CS	236.5	450	457	14.93	1	25.73	25.73
24	HSAE-FDW-BHL-0-B655-3-51C-HC	CS	174.4	80	88.9	122.17	1	40.94	40.94
25	HSAE-FDW-BHL-0-B661-1-51C-HC	CS	174.4	25	33.4	20.46	1	2.58	2.58
26	HSAE-FDW-BHL-0-B662-1-51C-HC	CS	174.4	25	33.4	20.18	1	2.54	2.54
27	HSAE-FDW-BHL-0-B671-2-51C-HC	CS	174.4	50	60.3	16.22	1	3.68	3.68
28	HSAE-FDW-BHL-0-B671-8-11B-HC	CS	170.4	200	219.1	64.4	1	53.2	53.20
29	HSAE-FDW-BHL-0-B672-2-51C-HC	CS	174.4	50	60.3	16.22	1	3.68	3.68
30	HSAE-FDW-BHL-0-B672-8-11B-HC	CS	170.4	200	219.1	41.1	1	33.95	33.95
31	HSAE-FDW-BHL-0-B673-8-11B-HC	CS	170.4	200	219.1	9.01	1	7.44	7.44
32	HSAE-FDW-BHL-0-B674-8-11B-HC	CS	170.4	200	219.1	8.99	1	7.43	7.43
33	HSAF-BS-BHL-0-B191-6-11C-HC	CS	172	150	168.3	15.25	1	9.67	9.67
34	HSAF-BS-BHL-0-B192-6-11C-HC	CS	172	150	168.3	15.23	1	9.66	9.66
35	HSAF-BS-BHL-0-B193-6-11C-HC	CS	172	150	168.3	105.65	1	67.03	67.03
36	HSSA-AXS-BHL-0-B211-3-21C-HC	CS	260	80	88.9	24.94	1	8.36	8.36
37	HSSA-AXS-BHL-0-B212-3-21C-HC	CS	260	80	88.9	169.17	1	56.7	56.70
38	HSSA-AXS-BHL-0-B213-3-21C-HC	CS	260	80	88.9	164.95	1	55.28	55.28
39	HSSA-AXS-BHL-0-B261-10-11C-HC	CS	190	250	273.1	0.5	1	0.52	0.52
40	HSSA-AXS-BHL-0-B262-10-11C-HC	CS	190	250	273.1	43.11	1	44.39	44.39
41	HSSA-AXS-BHL-0-B263-10-11C-HC	CS	190	250	273.1	77.39	1	79.68	79.68
42	HSAB-HS-BHL-1-B005-16-65C-HC	AS	530	400	406.4	32.47	4	49.75	199.00
43	HSAB-HS-BHL-1-B006-12-65C-HC	AS	530	300	323.8	7.3	4	8.92	35.68
44	HSAB-HS-BHL-1-B007-12-65C-HC	AS	530	300	323.8	10.05	4	12.26	49.04
45	HSAB-HS-BHL-1-B008-2-65C-HC	AS	530	50	60.3	21.92	4	4.98	19.92
46	HSAB-AV-BHL-1-B009-6-11B-HC	CS		150	168.3	14.07	4	8.93	35.72
47	HSAB-BSS-BHL-1-B063-18-11C-HC	CS	200	450	457	53.25	4	91.74	366.96
48	HSAB-BSS-BHL-1-B064-12-11C-HC	CS	200	300	323.8	3.43	4	4.19	16.76
49	HSAB-BSS-BHL-1-B065-12-11C-HC	CS	200	300	323.8	2.26	4	2.76	11.04
50	HSAE-FDW-BHL-1-B601-16-11C-HC	CS	170.4	400	406.4	42.75	4	65.5	262.00
51	HSAE-FDW-BHL-1-B602-6-11B-HC	CS	170.4	150	168.3	3	4	1.91	7.64
52	HSAE-FDW-BHL-1-B603-12-11B-HC	CS	170.4	300	323.8	1.88	4	2.29	9.16
53	HSAE-FDW-BHL-1-B604-14-11B-HC	CS	170.4	350	355.6	8.05	4	10.79	43.16
54	HSAE-FDW-BHL-1-B605-12-11B-HC	CS	170.4	300	323.8	11.93	4	14.57	58.28
55	HSAE-FDW-BHL-1-B606-10-51C-HC	CS	174.4	250	273.1	10.09	4	10.39	41.56
56	HSAE-FDW-BHL-1-B607-4-51C-HC	CS	174.4	100	114.3	26.91	4	11.59	46.36
57	HSAE-FDW-BHL-1-B608-12-11B-HC	CS	170.4	300	323.8	1.88	4	2.29	9.16
58	HSAE-FDW-BHL-1-B609-14-11B-HC	CS	170.4	350	355.6	8.05	4	10.79	43.16

SL NO	LINE NUMBER	MATERIAL	WORK TEMP	NB	OD	PIPE LENGTH	NO OF UNITS	PER UNIT PAINT AREA	TOTAL PAINT AREA
			[Deg C]		[mm]	[m]		[Sq.m]	[Sq.m]
59	HSAE-FDW-BHL-1-B610-12-11B-HC	CS	170.4	300	323.8	11.93	4	14.57	58.28
60	HSAE-FDW-BHL-1-B611-10-51C-HC	CS	174.4	250	273.1	10.09	4	10.39	41.56
61	HSAE-FDW-BHL-1-B612-4-51C-HC	CS	174.4	100	114.3	30.91	4	13.32	53.28
62	HSAE-FDW-BHL-1-B613-12-11B-HC	CS	170.4	300	323.8	1.88	4	2.29	9.16
63	HSAE-FDW-BHL-1-B614-14-11B-HC	CS	170.4	350	355.6	8.05	4	10.79	43.16
64	HSAE-FDW-BHL-1-B615-12-11B-HC	CS	170.4	300	323.8	11.93	4	14.57	58.28
65	HSAE-FDW-BHL-1-B616-10-51C-HC	CS	174.4	250	273.1	11.32	4	11.65	46.60
66	HSAE-FDW-BHL-1-B617-4-51C-HC	CS	174.4	100	114.3	26.91	4	11.59	46.36
67	HSAE-FDW-BHL-1-B618-14-51C-HC	CS	174.4	350	355.6	7.44	4	9.97	39.88
68	HSAE-FDW-BHL-1-B619-14-51C-HC	CS	174.4	350	355.6	50.6	4	67.84	271.36
69	HSAE-FDW-BHL-1-B620-14-51C-HC	CS	202.9	350	355.6	32.34	4	43.36	173.44
70	HSAE-FDW-BHL-1-B621-14-61C-HC	CS	236.5	350	355.6	41.68	4	55.87	223.48
71	HSAE-FDW-BHL-1-B622-3-51C-HC	CS	174.4	80	88.9	70.88	4	23.76	95.04
72	HSAF-BS-BHL-1-B194-6-11C-HC	CS	172	150	168.3	72.46	4	45.97	183.88
73	HSAF-EXS-BHL-1-B006-8-21C-HC	CS	312.3	200	219.1	13.67	4	11.29	45.16
74	HSAF-EXS-BHL-1-B301-8-21C-HC	CS	338.7	200	219.1	23.8	4	19.66	78.64
75	HSAF-EXS-BHL-1-B303-10-21C-HC	CS	262.6	250	273.1	35.38	4	36.42	145.68
76	HSAF-EXS-BHL-1-B305-10-11C-HC	CS	196.5	250	273.1	7.02	4	7.22	28.88
77	HSAF-EXS-BHL-1-B306-10-11C-HC	CS	196.5	250	273.1	7.47	4	7.69	30.76
78	HSAF-EXS-BHL-1-B307-14-11C-HC	CS	196.5	350	355.6	1	4	1.34	5.36
79	HSAF-EXS-BHL-1-B308-14-11C-HC	CS	196.5	350	355.6	17.91	4	24.01	96.04
80	HSAF-EXS-BHL-1-B309-8-11C-HC	CS	196.5	200	219.1	13.11	4	10.82	43.28
81	HSAF-EXS-BHL-1-B312-16-11C-HC	CS	142.98	400	406.4	3.48	4	5.33	21.32
82	HSAF-EXS-BHL-1-B313-16-11C-HC	CS	142.98	400	406.4	3.48	4	5.33	21.32
83	HSAF-EXS-BHL-1-B314-24-11C-HC	CS	142.98	600	610	1	4	2.3	9.20
84	HSAF-EXS-BHL-1-B316-20-11C-HC	CS	107.33	500	508	2.86	4	5.47	21.88
85	HSAF-EXS-BHL-1-B317-20-11C-HC	CS	107.33	500	508	2.86	4	5.47	21.88
86	HSAF-EXS-BHL-1-B318-30-11C-HC	CS	107.33	750	762	27.71	4	79.6	318.40
87	HSAF-EXS-BHL-1-B320-30-11C-HC	CS	78.17	750	762	5.17	4	14.86	59.44
88	HSAF-EXS-BHL-1-B321-30-11C-HC	CS	78.17	750	762	5.17	4	14.86	59.44
89	HSAF-EXS-BHL-1-B322-44-11C-HC	CS	78.17	1100	1118	26.71	4	112.57	450.28
90	HSAF-HD-BHL-1-B701-6-21B-HC	CS	208.8	150	168.3	19.39	4	12.3	49.20
91	HSAF-HD-BHL-1-B702-6-21B-HC	CS	204.3	150	168.3	6.98	4	4.43	17.72
92	HSAF-HD-BHL-1-B703-6-21B-HC	CS	208.8	150	168.3	4.03	4	2.56	10.24
93	HSAF-HD-BHL-1-B704-6-21B-HC	CS	170.4	150	168.3	6.14	4	3.9	15.60
94	HSAF-HD-BHL-1-B705-6-21B-HC	CS	208.8	150	168.3	4.58	4	2.9	11.60
95	HSAF-HD-BHL-1-B706-8-21B-HC	CS	208.8	200	219.1	19.02	4	15.71	62.84
96	HSAF-HD-BHL-1-B708-6-21B-HC	CS	180.4	150	168.3	4.03	4	2.56	10.24
97	HSAF-HD-BHL-1-B709-6-21B-HC	CS	180.4	150	168.3	8.39	4	5.33	21.32
98	HSAF-HD-BHL-1-B710-6-21B-HC	CS	180.4	150	168.3	4.58	4	2.9	11.60
99	HSAF-HD-BHL-1-B711-8-21B-HC	CS	180.4	200	219.1	17.16	4	14.17	56.68
100	HSAF-HD-BHL-1-B714-36-11B-HC	CS		900	914	5.46	4	18.82	75.28
101	HSAF-HD-BHL-1-B751-6-11B-HC	CS	110.3	150	168.3	3.88	4	2.46	9.84
102	HSAF-HD-BHL-1-B753-6-11B-HC	CS	110.3	150	168.3	5.94	4	3.77	15.08
103	HSAF-HD-BHL-1-B754-8-11B-HC	CS	110.3	200	219.1	10.76	4	8.89	35.56
104	HSAF-HD-BHL-1-B755-8-11B-HC	CS	81.1	200	219.1	3.99	4	3.3	13.20
105	HSAF-HD-BHL-1-B757-8-11B-HC	CS	81.1	200	219.1	5.64	4	4.66	18.64
106	HSAF-HD-BHL-1-B758-10-11B-HC	CS	81.1	250	273.1	10.99	4	11.32	45.28
107	HSAF-HD-BHL-1-B759-10-11B-HC	CS	78	250	273.1	28.86	4	29.71	118.84
108	HSAF-HD-BHL-1-B760-10-11B-HC	CS	78	250	273.1	14.75	4	15.19	60.76
109	HSSA-AXS-BHL-1-B004-14-11C-HC	CS	220	350	355.6	2.59	4	3.47	13.88
110	HSSA-AXS-BHL-1-B214-3-21C-HC	CS	260	80	88.9	4.83	4	1.62	6.48
111	HSSA-AXS-BHL-1-B215-1.5-21C-HC	CS	260	40	48.3	5.31	4	0.97	3.88
112	HSSA-AXS-BHL-1-B216-1.5-21C-HC	CS	260	40	48.3	4.59	4	0.84	3.36
113	HSSA-AXS-BHL-1-B264-8-11C-HC	CS	190	200	219.1	65.24	4	53.89	215.56
114	WBS-GS-BHL-1-T100-2-21C-HC	CS		50	60.3	1	4	0.23	0.92
115	WBS-GS-BHL-1-T103-12-11B-HC	CS		300	323.8	1.37	4	1.67	6.68
116	WBS-GS-BHL-1-T104-6-11B-HC	CS		150	168.3	2.37	4	1.5	6.00
117	WBS-GS-BHL-1-T105-10-11B-HC	CS		250	273.1	2.93	4	3.01	12.04
118	WBS-GS-BHL-1-T120-6-11B-HC	CS		150	168.3	26.3	4	16.69	66.76
119	WBS-GS-BHL-1-T121-6-11B-HC	CS		150	168.3	8.59	4	5.45	21.80
120	HSAD-CDD-BHL-1-B513-14-22B-HC	SS	75.5	350	355.6	33.5	4	44.9	179.60
121	HSAD-CDD-BHL-1-B514-14-22B-HC	SS	104.7	350	355.6	49.47	4	66.32	265.28
122	HSAD-CDD-BHL-1-B515-14-22B-HC	SS	140.1	350	355.6	4.48	4	6	24.00
123	HSAD-CDD-BHL-1-B516-14-22B-HC	SS	140.1	350	355.6	21.73	4	29.14	116.56

SL NO	LINE NUMBER	MATERIAL	WORK TEMP	NB	OD	PIPE LENGTH	NO OF UNITS	PER UNIT PAINT AREA	TOTAL PAINT AREA
			[Deg C]		[mm]	[m]		[Sq.m]	[Sq.m]
	INSULATED PIPES - TOTAL							3113.94	7357.17
B	UNINSULATED PIPES								
1	WCR-BHL-0-B013-44-11D	CS		1000	1016	4.44	1	17	17.00
2	WCR-BHL-0-B014A-28-11D	CS		700	711	2.31	1	6.19	6.19
3	WCR-BHL-0-B014B-28-11D	CS		700	711	2.31	1	6.19	6.19
4	WCR-BHL-0-B014C-28-11D	CS		700	711	2.31	1	6.19	6.19
5	WCR-BHL-0-B073B-10-11D	CS		250	273.1	11.72	1	12.07	12.07
6	WCR-BHL-0-B074A-14-11D	CS		350	355.6	43.64	1	58.5	58.50
7	WCR-BHL-0-B074B-24-11D	CS		600	610	71.92	1	165.4	165.40
8	WCR-BHL-0-B074C-20-11D	CS		500	508	98.71	1	189.04	189.04
9	WCR-BHL-0-B074D-14-11D	CS		350	355.6	43.99	1	58.97	58.97
10	WCR-BHL-0-B116-44-11D	CS		1000	1016	14.06	1	53.86	53.86
11	WCS-BHL-0-B001A-24-11D	CS		600	610	3.69	1	8.48	8.48
12	WCS-BHL-0-B001B-24-11D	CS		600	610	3.69	1	8.48	8.48
13	WCS-BHL-0-B001C-24-11D	CS		600	610	3.69	1	8.48	8.48
14	WCS-BHL-0-B002A-30-11D	CS		750	762	34.48	1	99.05	99.05
15	WCS-BHL-0-B002C-30-11D	CS		750	762	40.6	1	116.63	116.63
16	WCS-BHL-0-B007-24-11D	CS		600	610	61.78	1	142.07	142.07
17	WCS-BHL-0-B008-20-11D	CS		500	508	77.87	1	149.12	149.12
18	WCS-BHL-0-B009A-6-11D	CS		150	168.3	11.23	1	7.13	7.13
19	WCS-BHL-0-B010A-3-11D	CS		80	88.9	3.59	1	1.2	1.20
20	WCS-BHL-0-B011A-3-11D	CS		80	88.9	3.59	1	1.2	1.20
21	WCS-BHL-0-B012A-3-11D	CS		80	88.9	3.59	1	1.2	1.20
22	WCS-BHL-0-B073A-10-11D	CS		250	273.1	10.74	1	11.05	11.05
23	WCS-BHL-0-B076-14-11D	CS		350	355.6	43.64	1	58.5	58.50
24	WCS-BHL-0-B115-14-11D	CS		350	355.6	43.99	1	58.97	58.97
25	HSAD-CDD-BHL-0-B579-3-22B-NI	SS	48.5	80	88.9	37.71	1	12.64	12.64
26	HSAD-CDD-BHL-0-B580-3-22B-NI	SS	48.5	80	88.9	62.73	1	21.02	21.02
27	HSAD-CDD-BHL-0-B581-4-22B-NI	SS	48.5	100	114.3	41.8	1	18.01	18.01
28	HSAD-CDD-BHL-0-B582-4-22B-NI	SS	48.5	100	114.3	11.43	1	4.92	4.92
29	HSAD-CDD-BHL-1-B403-16-11B-NI	CS	47.3	400	406.4	1.25	4	1.92	7.68
30	HSAD-CDD-BHL-1-B404-16-11B-NI	CS	47.3	400	406.4	3.19	4	4.88	19.52
31	HSAD-CDD-BHL-1-B405-16-11B-NI	CS	47.3	400	406.4	3.19	4	4.88	19.52
32	HSAD-CDD-BHL-1-B406-10-11B-NI	CS	47.3	250	273.1	1.69	4	1.74	6.96
33	HSAD-CDD-BHL-1-B407-10-11B-NI	CS	47.3	250	273.1	1.69	4	1.74	6.96
34	HSAD-CDD-BHL-1-B408-10-11B-NI	CS	47.3	250	273.1	11.88	4	12.23	48.92
35	HSAD-CDD-BHL-1-B409-10-11B-NI	CS	49.2	250	273.1	7	4	7.21	28.84
36	HSAD-CDD-BHL-1-B410-3-11B-NI	CS	49.2	80	88.9	6.17	4	2.06	8.24
37	HSAD-CDD-BHL-1-B4XX-10-11B-NI	CS	47.3	250	273.1	14.5	4	14.93	59.72
38	HSAD-VA-BHL-1-B411-4-11B-NI	CS		100	114.3	13.27	4	5.72	22.88
39	HSAD-VA-BHL-1-B412-4-11B-NI	CS		100	114.3	8.6	4	3.71	14.84
40	HSAD-VA-BHL-1-B413-6-11B-NI	CS		150	168.3	11.52	4	7.31	29.24
41	HSAD-VA-BHL-1-B416-10-11B-NI	CS		250	273.1	3.89	4	4.01	16.04
42	HSAD-VA-BHL-1-B4X1-6-11B-NI	CS		150	168.3	4.08	4	2.59	10.36
43	HSAD-VA-BHL-1-B4X2-6-11B-NI	CS		150	168.3	4.08	4	2.59	10.36
44	LO-BHL-1-T027-8-11A	CS		200	219.1	2.47	4	2.04	8.16
45	LO-BHL-1-T028-8-11A	CS		200	219.1	5.51	4	4.55	18.20
46	LO-BHL-1-T029-6-11A	CS		150	168.3	5.88	4	3.73	14.92
47	LO-BHL-1-T030-6-11A	CS		150	168.3	5.9	4	3.74	14.96
48	LO-BHL-1-T032-10-11A	CS		250	273.1	7.92	4	8.16	32.64
49	LO-BHL-1-T034-4-11A	CS		100	114.3	29.52	4	12.72	50.88
50	WCR-BHL-1-B020-4-11D	CS		100	114.3	0.24	4	0.11	0.44
51	WCR-BHL-1-B021-4-11D	CS		100	114.3	0.24	4	0.11	0.44
52	WCR-BHL-1-B022-4-11D	CS		100	114.3	35.8	4	15.43	61.72
53	WCR-BHL-1-B026-3-11D	CS		80	88.9	2.72	4	0.91	3.64
54	WCR-BHL-1-B027-3-11D	CS		80	88.9	2.75	4	0.92	3.68
55	WCR-BHL-1-B028-3-11D	CS		80	88.9	47	4	15.76	63.04
56	WCR-BHL-1-B030-8-11D	CS		200	219.1	26.8	4	22.14	88.56
57	WCR-BHL-1-B034-2-11D	CS		50	60.3	4.13	4	0.94	3.76
58	WCR-BHL-1-B035-2-11D	CS		50	60.3	4.14	4	0.94	3.76
59	WCR-BHL-1-B036-2-11D	CS		50	60.3	24.89	4	5.66	22.64
60	WCR-BHL-1-B043-2-11D	CS		50	60.3	3.96	4	0.9	3.60
61	WCR-BHL-1-B044-2-11D	CS		50	60.3	3.96	4	0.9	3.60
62	WCR-BHL-1-B045-2-11D	CS		50	60.3	3.96	4	0.9	3.60
63	WCR-BHL-1-B048-3-11D	CS		80	88.9	15.31	4	5.14	20.56

SL NO	LINE NUMBER	MATERIAL	WORK TEMP	NB	OD	PIPE LENGTH	NO OF UNITS	PER UNIT PAINT AREA	TOTAL PAINT AREA
			[Deg C]		[mm]	[m]		[Sq.m]	[Sq.m]
64	WCR-BHL-1-B056-4-11D	CS		100	114.3	3.6	4	1.55	6.20
65	WCR-BHL-1-B062-4-11D	CS		100	114.3	4.03	4	1.74	6.96
66	WCR-BHL-1-B065-4-11D	CS		100	114.3	12.3	4	5.3	21.20
67	WCR-BHL-1-B072-6-11D	CS		150	168.3	7.54	4	4.79	19.16
68	WCR-BHL-1-B083-4-11D	CS		100	114.3	3.6	4	1.55	6.20
69	WCR-BHL-1-B089-4-11D	CS		100	114.3	4.03	4	1.74	6.96
70	WCR-BHL-1-B092-4-11D	CS		100	114.3	12.3	4	5.3	21.20
71	WCR-BHL-1-B095-6-11D	CS		150	168.3	7.54	4	4.79	19.16
72	WCR-BHL-1-B101-4-11D	CS		100	114.3	3.6	4	1.55	6.20
73	WCR-BHL-1-B108-4-11D	CS		100	114.3	4.03	4	1.74	6.96
74	WCR-BHL-1-B111-4-11D	CS		100	114.3	12.3	4	5.3	21.20
75	WCR-BHL-1-B115-6-11D	CS		150	168.3	7.54	4	4.79	19.16
76	WCR-BHL-1-B507-14-11D	CS		350	355.6	128.21	4	171.88	687.52
77	WCR-BHL-1-B510-36-11D	CS		900	914	17.39	4	59.92	239.68
78	WCR-BHL-1-B511-36-11D	CS		900	914	1	4	3.44	13.76
79	WCR-BHL-2-B507-14-11D	CS		350	355.6	84.04	4	112.67	450.68
80	WCR-BHL-3-B507-14-11D	CS		350	355.6	54.51	4	73.08	292.32
81	WCR-BHL-4-B507-14-11D	CS		350	355.6	100.87	4	135.23	540.92
82	WCS-BHL-0-B003A-18-11D	CS		450	457	0.5	4	0.86	3.44
83	WCS-BHL-0-B003B-18-11D	CS		450	457	0.5	4	0.86	3.44
84	WCS-BHL-0-B004A-18-11D	CS		450	457	0.5	4	0.86	3.44
85	WCS-BHL-0-B004B-18-11D	CS		450	457	0.5	4	0.86	3.44
86	WCS-BHL-0-B005A-18-11D	CS		450	457	0.5	4	0.86	3.44
87	WCS-BHL-0-B005B-18-11D	CS		450	457	0.5	4	0.86	3.44
88	WCS-BHL-0-B006A-18-11D	CS		450	457	0.5	4	0.86	3.44
89	WCS-BHL-0-B006B-18-11D	CS		450	457	0.63	4	1.08	4.32
90	WCS-BHL-1-B017-4-11D	CS		100	114.3	37.92	4	16.34	65.36
91	WCS-BHL-1-B018-4-11D	CS		100	114.3	2.09	4	0.9	3.60
92	WCS-BHL-1-B019-4-11D	CS		100	114.3	0.95	4	0.41	1.64
93	WCS-BHL-1-B023-3-11D	CS		80	88.9	49.1	4	16.45	65.80
94	WCS-BHL-1-B024-3-11D	CS		80	88.9	3.06	4	1.02	4.08
95	WCS-BHL-1-B025-3-11D	CS		80	88.9	3.08	4	1.03	4.12
96	WCS-BHL-1-B029-8-11D	CS		200	219.1	28.74	4	23.74	94.96
97	WCS-BHL-1-B031-2-11D	CS		50	60.3	26.39	4	6	24.00
98	WCS-BHL-1-B032-2-11D	CS		50	60.3	4.16	4	0.95	3.80
99	WCS-BHL-1-B033-2-11D	CS		50	60.3	4.17	4	0.95	3.80
100	WCS-BHL-1-B037-3-11D	CS		80	88.9	14.11	4	4.73	18.92
101	WCS-BHL-1-B040-2-11D	CS		50	60.3	4.49	4	1.02	4.08
102	WCS-BHL-1-B041-2-11D	CS		50	60.3	4.49	4	1.02	4.08
103	WCS-BHL-1-B042-2-11D	CS		50	60.3	4.49	4	1.02	4.08
104	WCS-BHL-1-B052-4-11D	CS		100	114.3	4.71	4	2.03	8.12
105	WCS-BHL-1-B058-4-11D	CS		100	114.3	4.92	4	2.12	8.48
106	WCS-BHL-1-B064-4-11D	CS		100	114.3	16.54	4	7.13	28.52
107	WCS-BHL-1-B070-6-11D	CS		150	168.3	6.83	4	4.33	17.32
108	WCS-BHL-1-B075-6-11D	CS		150	168.3	6.83	4	4.33	17.32
109	WCS-BHL-1-B079-4-11D	CS		100	114.3	4.71	4	2.03	8.12
110	WCS-BHL-1-B085-4-11D	CS		100	114.3	4.92	4	2.12	8.48
111	WCS-BHL-1-B091-4-11D	CS		100	114.3	16.54	4	7.13	28.52
112	WCS-BHL-1-B099-4-11D	CS		100	114.3	4.71	4	2.03	8.12
113	WCS-BHL-1-B106-4-11D	CS		100	114.3	4.92	4	2.12	8.48
114	WCS-BHL-1-B110-4-11D	CS		100	114.3	16.54	4	7.13	28.52
115	WCS-BHL-1-B114-6-11D	CS		150	168.3	6.83	4	4.33	17.32
116	WCS-BHL-1-B501-18-11D	CS		450	457	8.64	4	14.88	59.52
117	WCS-BHL-1-B502-18-11D	CS		450	457	3.54	4	6.1	24.40
118	WCS-BHL-1-B503-18-11D	CS		450	457	8.17	4	14.08	56.32
119	WCS-BHL-1-B504-14-11D	CS		350	355.6	2.54	4	3.41	13.64
120	WCS-BHL-1-B505-14-11D	CS		350	355.6	7.47	4	10.02	40.08
121	WCS-BHL-1-B506-14-11D	CS		350	355.6	135.65	4	181.85	727.40
122	WCS-BHL-1-B508-36-11D	CS		900	914	7.67	4	26.42	105.68
123	WCS-BHL-1-B509-36-11D	CS		900	914	7.67	4	26.42	105.68
124	WCS-BHL-2-B506-14-11D	CS		350	355.6	95.15	4	127.56	510.24
125	WCS-BHL-3-B506-14-11D	CS		350	355.6	54.02	4	72.42	289.68
126	WCS-BHL-4-B506-14-11D	CS		350	355.6	93.58	4	125.45	501.80
127	HSAD-CDD-BHL-1-B501-20-12B-NI	SS	39.5	500	508	18.32	4	35.09	140.36
128	HSAD-CDD-BHL-1-B502-14-12B-NI	SS	39.5	350	355.6	1.23	4	1.64	6.56
129	HSAD-CDD-BHL-1-B503-14-12B-NI	SS	39.5	350	355.6	1.23	4	1.64	6.56

SL NO	LINE NUMBER	MATERIAL	WORK TEMP	NB	OD	PIPE LENGTH	NO OF UNITS	PER UNIT PAINT AREA	TOTAL PAINT AREA
			[Deg C]		[mm]	[m]		[Sq.m]	[Sq.m]
130	HSAD-CDD-BHL-1-B504-14-12B-NI	SS	39.5	350	355.6	1.23	4	1.64	6.56
131	HSAD-CDD-BHL-1-B505-6-22B-NI	SS	39.5	150	168.3	30.97	4	19.64	78.56
132	HSAD-CDD-BHL-1-B506-6-22B-NI	SS	39.5	150	168.3	29.01	4	18.41	73.64
133	HSAD-CDD-BHL-1-B507-6-22B-NI	SS	39.5	150	168.3	27.6	4	17.51	70.04
134	HSAD-CDD-BHL-1-B508-10-22B-NI	SS	39.5	250	273.1	1.09	4	1.13	4.52
135	HSAD-CDD-BHL-1-B509-10-22B-NI	SS	39.5	250	273.1	1.09	4	1.13	4.52
136	HSAD-CDD-BHL-1-B510-10-22B-NI	SS	39.5	250	273.1	1.09	4	1.13	4.52
137	HSAD-CDD-BHL-1-B511-14-22B-NI	SS	39.5	350	355.6	36.04	4	48.31	193.24
138	HSAD-CDD-BHL-1-B512-14-22B-NI	SS	45.6	350	355.6	25.86	4	34.67	138.68
139	HSAD-CDD-BHL-1-B576-3-22B-NI	SS	39.5	80	88.9	6.27	4	2.1	8.40
140	HSAD-CDD-BHL-1-B577-2-22B-NI	SS	39.5	50	60.3	57.09	4	12.98	51.92
141	HSAD-CDD-BHL-1-B578-1.5-22B-NI	SS	39.5	40	48.3	38.51	4	7.01	28.04
142	LO-BHL-1-T012-4-12A	SS		100	114.3	7.7	4	3.31	13.24
143	LO-BHL-1-T022-2-12A	SS		50	60.3	4.94	4	1.13	4.52
144	LO-BHL-1-T023-3-12A	SS		80	88.9	5.1	4	1.7	6.80
145	LO-BHL-1-T024-2-12A	SS		50	60.3	7.41	4	1.68	6.72
146	LO-BHL-1-T025-1.5-12A	SS		40	48.3	7.66	4	1.39	5.56
147	LO-BHL-1-T026-1.5-12A	SS		40	48.3	7.66	4	1.39	5.56
148	LO-BHL-1-T033-4-12A	SS		100	114.3	28.59	4	12.32	49.28
	UNINSULATED PIPES - TOTAL							3046.21	8280.16
	ALL PIPES - TOTAL							6160.15	15637.33