



2074/PKG-09B/CON/RA23

₹ 2,68,99,226.66

EIL



MEIL

2074/PKG-09B/CON/RA23

SR.No	DESCRIPTION	UOM	SCOPE QTY	Billing Breakup Amount(INR)	Estimated Unit Rate	Quantity			Amount (INR)			Remarks
						Previous	This Bill	Cumulative	Previous	This Bill	Cumulative	
3.2.3.1.(ii).1.5	Misc. (Cable Trench,Road,Drain,etc.) (Pro-Rata Basis)			₹ 9,07,84,889.99								
3.2.3.1.(ii).1.5.1	Cable Trench			₹ 4,08,53,200.49								
3.2.3.1.(ii).1.5.1.1	RCC - Building Cable Trench	CuM	857	₹ 2,45,11,920.30			132.48	132.48	-	37,89,194	37,89,194	
3.2.3.1.(ii).1.5.1.2	RCC - Unit Cable Trench	CuM	550	₹ 1,22,55,960.15					-	-	-	
3.2.3.1.(ii).1.5.1.3	RCC - Cable Trench Pre Cast Cover (Unit + Building)	CuM	200	₹ 40,85,320.05					-	-	-	
3.2.3.1.(ii).1.5.2	Manhole, OWS Sump & Sewers (with leak test as per applicable)			₹ 90,78,489.00					-	-	-	
3.2.3.1.(ii).1.5.3	Construction of Hard Barrication and Fencing	%	100	₹ 45,39,244.50								
3.2.3.1.(ii).1.5.4	Roads & Drains			₹ 2,72,35,467.00								
3.2.3.1.(ii).1.5.5	Application of Fire Proofing	SQM	15,000	₹ 45,39,244.50								
3.2.3.1.(ii).1.5.6	Closing of Civil Works	%	100	₹ 45,39,244.50								
3.2.3.1.(ii).2	Building Works (Pro-Rata Basis)			₹ 58,02,90,866.71								
3.2.3.1.(ii).2.1	Sub-Structure (Pro-Rata Basis)			₹ 17,40,87,260.01								
3.2.3.1.(ii).2.1.1	GIS Building			₹ 7,31,16,649.21								
3.2.3.1.(ii).2.1.1.1	RCC - GIS Building Foundation Raft/Pile Cap Completion	%	100	₹ 4,38,69,989.52		1.00	-	1.00	4,38,69,990	-	4,38,69,990	
3.2.3.1.(ii).2.1.1.2	RCC - GIS Building Pedestal Column upto Plinth Level	%	100	₹ 73,11,664.92		1.00	-	1.00	73,11,665	-	73,11,665	
3.2.3.1.(ii).2.1.1.3	RCC - GIS Building Plinth Beam Completion	%	100	₹ 2,19,34,994.76		1.00	-	1.00	2,19,34,995	-	2,19,34,995	
3.2.3.1.(ii).2.1.2	SCCB Building			₹ 8,70,43,630.01								
3.2.3.1.(ii).2.1.2.1	RCC - SCCB Building Foundation Raft/Pile Cap Completion	%	100	₹ 5,22,26,178.00		0.70		0.70	3,65,58,325	-	3,65,58,325	
3.2.3.1.(ii).2.1.2.2	RCC - SCCB Building Pedestal Column upto Plinth Level	%	100	₹ 87,04,363.00		-		-	-	-	-	
3.2.3.1.(ii).2.1.2.3	RCC - SCCB Building Plinth Beam Completion	%	100	₹ 2,61,13,089.00		-		-	-	-	-	
3.2.3.1.(ii).2.1.3	MCC ROOM Building			₹ 1,56,67,853.40								
3.2.3.1.(ii).2.2	Super-Structure (Pro-Rata Basis)			₹ 14,50,72,716.68								
3.2.3.1.(ii).2.2.1	GIS Building			₹ 5,07,75,450.84								
3.2.3.1.(ii).2.2.1.1	RCC - GIS Building Columns up to Cellar Slab Casting	%	100	₹ 50,77,545.08		1.00	-	1.00	50,77,545	-	50,77,545	
3.2.3.1.(ii).2.2.1.2	RCC - GIS Building Cellar Room Slab Casting	%	100	₹ 1,01,55,090.17		1.00	-	1.00	1,01,55,090	-	1,01,55,090	
3.2.3.1.(ii).2.2.1.3	RCC - GIS Building Columns up to GIS Roof Slab (Including Tie Beam)	%	100	₹ 81,24,072.13		0.67	-	0.67	54,16,048	-	54,16,048	
3.2.3.1.(ii).2.2.1.4	RCC - GIS Building GIS Roof Slab Casting	%	100	₹ 1,01,55,090.17		0.67	-	0.67	67,70,060	-	67,70,060	
3.2.3.1.(ii).2.2.1.5	RCC - GIS Building - HVAC Room- Columns up to 1st Slab Casting	%	100	₹ 10,15,509.02		-		-	-	-	-	
3.2.3.1.(ii).2.2.1.6	RCC - GIS Building - HVAC Room- 1st Slab Casting	%	100	₹ 25,38,772.54		-		-	-	-	-	
3.2.3.1.(ii).2.2.1.7	RCC - GIS Building - Ventilation Room- Columns up to 2nd Slab	%	100	₹ 10,15,509.02		-		-	-	-	-	
3.2.3.1.(ii).2.2.1.8	RCC - GIS Building - Ventilation Room- 2nd Slab Concreting	%	100	₹ 25,38,772.54		-		-	-	-	-	
3.2.3.1.(ii).2.2.1.9	RCC - GIS Building - Mumty Slab & Staircase	%	100	₹ 25,38,772.54		-		-	-	-	-	
3.2.3.1.(ii).2.2.1.12	RCC - GIS Building - Grad Slab for Cable Cellar	%	100	₹ 76,16,317.63		-	0.43	0.43	-	32,75,017	32,75,017	
3.2.3.1.(ii).2.2.2	Substation cum Control Building (SCCB)			₹ 7,97,89,994.17								
3.2.3.1.(ii).2.2.3	Cooling Tower - MCC Room			₹ 1,45,07,271.67								
3.2.3.1.(ii).2.3	Brick/Block work and Plastering Work (Pro-Rata Basis)			₹ 9,28,46,538.67								
3.2.3.1.(ii).2.3.1	Brick Work / Block Work			₹ 6,49,92,577.07								
3.2.3.1.(ii).2.3.2	Plastering Work (Inside & Outside)			₹ 2,78,53,961.60								
3.2.3.1.(ii).2.6	Finishing Item Works & Both supply item (Pro-Rata Basis)			₹ 16,82,84,351.35								
3.2.3.1.(ii).2.6.1	Supply Item			₹ 14,30,41,698.64								
3.2.3.1.(ii).2.6.2	Installation work			₹ 2,52,42,652.70								
3.2.3.1.(ii).2.6.2.15	Conduit, Plumbing & Sanitary Works (Pro-Rata Basis)			₹ 12,62,132.64								
3.2.3.1.(ii).2.6.2.16	Building Painting Works (Inside & Outside)			₹ 37,86,397.91								
3.2.3.1.(iii)	5% (five percent) on issue of Mechanical completion Certificate against the CONTRACTOR's certified Running Account Bill(S).	%	100	₹ 5,72,83,200.00								
3.2.3.1.(iv)	2% (two percent) on issue of Commissioning Certificate against the CONTRACTOR's certified Running Account Bill(S).	%	100	₹ 2,29,13,280.00								
3.2.3.1.(v)	2% (two percent) on issue of Performance Test Certificate against the CONTRACTOR's certified Running Account Bill(S).	%	100	₹ 2,29,13,280.00								
3.2.3.1.(vi)	1% (One percent) on completion of all jobs against the CONTRACTOR's certified Running Account Bill(S).	%	100	₹ 1,14,56,640.00								
Net Value of Work done =									22,08,44,789	1,75,48,288	23,83,93,077	

R. C. Meil
 2023
 Asst. General Manager
 Engineers India Limited
 श्रीमत राजेश कुमार महापांडित
 इंजीनियरिंग सिविल एवं पायदर्द्दण HRRP. Pachpadra



Project Name: STG & ASSOCIATED SYSTEMS (PACKAGE-09B)
for Rajasthan Refinery Project (RRP)
of M/s HPCL Rajasthan Refinery Limited (HRRL)
at Barmer, Rajasthan, India



Client : HPCL Rajasthan Refinery Limited (HRRL)

PMC : Engineers India limited (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref LOA No. : HRRL/LOA/2022/44 Dated 06-10-2022

21/10/2023 - 20/01/2024 (Unclaimed Measurements)
& 21/02/2024 to 20/03/2024 (Current Measurements)

RA Bill No. : 2074/PKG-09B/CON/RA23

ABSTRACT OF MEASUREMENT

BBU Item No.	Item Description	UOM	BBU Quantity	Quantity			Remarks
				Up to Previous	This Bill	Total Upto Date	
3.2.3.1 (i)	10% (ten percent) on completion of piling works	Nos	4162	412		412	GIS Building
				529		529	SCC Building
				754	136	890	STG Building
				317	5	322	Cooling Tower
				354		354	PR-4
				68		68	PR-3
				88	40	128	Pipe Corridor Part-1
				256		256	STG (Equipment Fdn)
3.2.3.1.(ii).2.1.1.1	RCC - GIS Building Foundation Raft/Pile Cap Completion	%	100	1		1	GIS Building
3.2.3.1.(ii).2.1.1.2	RCC - GIS Building Pedestal Column upto Plinth Level	%	100	1		1	
3.2.3.1.(ii).2.1.1.3	RCC - GIS Building Plinth Beam Completion	%	100	1		1	
3.2.3.1.(ii).2.2.1.1	RCC - GIS Building Columns up to Cellar Slab Casting	%	100	1		1	
3.2.3.1.(ii).2.2.1.2	RCC - GIS Building Cellar Room Slab Casting	%	100	1		1	
3.2.3.1.(ii).2.2.1.3	RCC - GIS Building Columns up to GIS Roof Slab (Including Tie Beam)	%	100	0.67		0.67	
3.2.3.1.(ii).2.2.1.4	RCC - GIS Building GIS Roof Slab Casting	%	100	0.67		0.67	
3.2.3.1.(ii).2.2.1.12	RCC - GIS Building - Grad Slab for Cable Cellar	%	100		0.43	0.43	
3.2.3.1.(ii).2.1.2.1	RCC - SCCB Building Foundation Raft/Pile Cap Completion	%	100	0.70		0.70	SCCB Building
3.2.3.1.(ii).1.1.2.1	RCC - Cooling Tower Foundation Raft/Pile Cap Completion	%	100	0.75	0.25	1.00	Cooling Tower
3.2.3.1.(ii).1.1.2.2	RCC - Cooling Tower Pedestal Column up to Plinth Level	%	100		0.89	0.89	
3.2.3.1.(ii).1.1.2.3	RCC - Cooling Tower Plinth Beam Completion (including Bottom Raft)	%	100	0.75	0.25	1.00	
3.2.3.1.(ii).1.1.3.1	RCC - PR-03- Foundation Raft/Pile Cap Completion	%	100		0.50	0.50	PR-3
3.2.3.1.(ii).1.5.1.1	RCC - Building Cable Trench	cum	857		132.48	132.48	Cable Trench

	 R.P. Pachpadra Asstt. General Manager Engineers India Limited M/s HPCL Rajasthan Refinery Limited	
Contractor (M/s MEIL)	Consultant (M/s EIL)	Client/ Client's Representative (M/s HRRL)

PILE INDEX SHEET

Document No. : 2074/PKG-09B/CON/RA23

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Document No. : 2074/PKG-09B/CON/RA23

OWNER	: HPCL RAJASTHAN REFINERY LTD (HRRL)								
PMC	: ENGINEERS INDIA LTD (EIL)								
CONTRACTOR	: MEGHA ENGINEERING & INFRASTRUCTURE LTD (MEIL)								
LOA No.	: HRRL/LOA/2022/44								
PO. No.	: HRRL/PO/2022/44								
PROJECT NAME	: STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)								
DOCUMENT	: MEASUREMENT FOR PILING WORK								
MEASUREMENT PERIOD	: 21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)								
RA BILL No.	: 2074/PKG-09B/CON/RA23								
Drawing No.	: B224-511-9B-EST-DDE-1250 (R-3) B224-511-9B-ECV-DLA-VD05-0007 (R-2) B224-511-9B-EST-DDE-0200 (R-0)								

Sl no	Location	Pile No.	No. of Pile	Cage Weight (MT)	Pile Diameter (mm)	Date of Casting	Pour Card No.	Cube ID	Depth of pile from COL	Concrete Consumption Qty. (Cum) Theoretical	Remarks
1	Pipe Corridor-1	47	1	0.734	600	19-Feb-24	STG-9B/PC-1/PC/089	18995-19000	19	5.657	Pipe Corridor-1
2	Pipe Corridor-1	41	1	0.734	600	19-Feb-24	STG-9B/PC-1/PC/090	19001-19006	19	5.657	
3	Pipe Corridor-1	40	1	0.734	600	19-Feb-24	STG-9B/PC-1/PC/091	19019-19024	19	5.657	
4	Pipe Corridor-1	92	1	0.734	600	19-Feb-24	STG-9B/PC-1/PC/092	19025-19030	19	5.657	
5	Pipe Corridor-1	98	1	0.734	600	19-Feb-24	STG-9B/PC-1/PC/093	19031-19036	19	5.657	
6	Pipe Corridor-1	82	1	0.734	600	23-Feb-24	STG-9B/PC-1/PC/094	19037-19042	19	5.657	
7	Pipe Corridor-1	38	1	0.734	600	23-Feb-24	STG-9B/PC-1/PC/095	19043-19048	19	5.657	
8	Pipe Corridor-1	96	1	0.734	600	23-Feb-24	STG-9B/PC-1/PC/096	19049-19054	19	5.657	
9	Pipe Corridor-1	90	1	0.734	600	23-Feb-24	STG-9B/PC-1/PC/097	19055-19060	19	5.657	
10	Pipe Corridor-1	81	1	0.734	600	23-Feb-24	STG-9B/PC-1/PC/098	19061-19066	19	5.657	
11	Pipe Corridor-1	94	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/099	19067-19072	19	5.657	
12	Pipe Corridor-1	93	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/100	19073-19078	19	5.657	
13	Pipe Corridor-1	32	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/101	19079-19084	19	5.657	
14	Pipe Corridor-1	26	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/102	19085-19090	19	5.657	
15	Pipe Corridor-1	23	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/103	19091-19096	19	5.657	
16	Pipe Corridor-1	17	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/104	19097-19102	19	5.657	
17	Pipe Corridor-1	95	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/105	19103-19108	19	5.657	
18	Pipe Corridor-1	86	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/106	19109-19114	19	5.657	
19	Pipe Corridor-1	24	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/107	19115-19120	19	5.657	
20	Pipe Corridor-1	27	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/108	19121-19126	19	5.657	
21	Pipe Corridor-1	18	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/109	19127-19132	19	5.657	
22	Pipe Corridor-1	25	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/110	19133-19138	19	5.657	
23	Pipe Corridor-1	84	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/111	19139-19144	19	5.657	
24	Pipe Corridor-1	85	1	0.734	600	24-Feb-24	STG-9B/PC-1/PC/112	19145-19150	19	5.657	
25	Pipe Corridor-1	20	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/113	19403-19408	19	5.657	CT
26	Pipe Corridor-1	22	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/114	19409-19414	19	5.657	
27	Pipe Corridor-1	88	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/115	19415-19420	19	5.657	
28	Pipe Corridor-1	87	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/116	19421-19426	19	5.657	
29	Pipe Corridor-1	33	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/117	19427-19432	19	5.657	
30	Pipe Corridor-1	89	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/118	19433-19438	19	5.657	
31	Pipe Corridor-1	29	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/119	19439-19444	19	5.657	
32	Pipe Corridor-1	21	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/120	19445-19450	19	5.657	
33	Pipe Corridor-1	19	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/121	19451-19456	19	5.657	
34	Pipe Corridor-1	30	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/122	19457-19462	19	5.657	
35	Pipe Corridor-1	16	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/123	19463-19468	19	5.657	
36	Pipe Corridor-1	28	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/124	19469-19474	19	5.657	CT
37	Pipe Corridor-1	31	1	0.734	600	26-Feb-24	STG-9B/PC-1/PC/125	19475-19480	19	5.657	
38	Pipe Corridor-1	83	1	0.734	600	27-Feb-24	STG-9B/PC-1/PC/126	19481-19486	19	5.657	
39	Pipe Corridor-1	35	1	0.734	600	29-Feb-24	STG-9B/PC-1/PC/127	19625-19630	19	5.657	
40	Pipe Corridor-1	144	1	0.734	600	06-Mar-24	STG-9B/PC-1/PC/128	19901-19906	19	5.657	
1	CT	187	1	0.734	600	03-Nov-23	STG-9B/CT/PC/318	14177-14182	19	5.657	
2	CT	77	1	0.734	600	04-Nov-23	STG-9B/CT/PC/319	14183-14188	19	5.657	
3	CT	116	1	0.734	600	04-Nov-23	STG-9B/CT/PC/320	14189-14194	19	5.657	
4	CT	258	1	0.734	600	21-Feb-24	STG-9B/CT/PC/321	19175-19180	19	5.657	
5	CT	225	1	0.734	600	22-Feb-24	STG-9B/CT/PC/322	19181-19186	19	5.657	
1	STG	695	1	0.734	600	29-Aug-23	STG-9B/STGB/PC/668	12707-12712	19,000	5.657	STGB
2	STG	696	1	0.734	600	30-Aug-23	STG-9B/STGB/PC/669	12731-12736	19,000	5.657	
3	STG	693	1	0.734	600	30-Aug-23	STG-9B/STGB/PC/670	12737-12742	19,000	5.657	
4	STG	704	1	0.734	600	30-Aug-23	STG-9B/STGB/PC/671	12743-12748	19,000	5.657	
5	STG	698	1	0.734	600	30-Aug-23	STG-9B/STGB/PC/672	12749-12754	19,000	5.657	
6	STG	687	1	0.734	600	31-Aug-23	STG-9B/STGB/PC/679	12803-12808	19,000	5.657	
7	STG	702	1	0.734	600	31-Aug-23	STG-9B/STGB/PC/683	12827-12832	19,000	5.657	
8	STG	701	1	0.734	600	01-Sep-23	STG-9B/STGB/PC/686	12869-12874	19,000	5.657	
9	STG	699	1	0.734	600	01-Sep-23	STG-9B/STGB/PC/689	12911-12916	19,000	5.657	
10	STG	716	1	0.734	600	02-Sep-23	STG-9B/STGB/PC/697	12989-12994	19,000	5.657	
11	STG	714	1	0.734	600	02-Sep-23	STG-9B/STGB/PC/698	12995-13000	19,000	5.657	
12	STG	700	1	0.734	600	02-Sep-23	STG-9B/STGB/PC/700	13031-13036	19,000	5.657	
13	STG	707	1	0.734	600	02-Sep-23	STG-9B/STGB/PC/701	13037-13042	19,000	5.657	
14	STG	705	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/705	13097-13102	19,000	5.657	
15	STG	692	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/706	13103-13108	19,000	5.657	
16	STG	710	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/707	13109-13114	19,000	5.657	

1 of 3

P. Srihari 2/13
General Manager
SAIL Limited

P. Sridhar
Asst. General Manager
Engineers India Limited
HRRP.Nachpadra

Sl no	Location	Pile No.	No. of Pile	Cage Weight (MT)	Pile Diameter (mm)	Date of Casting	Pour Card No.	Cube ID	Depth of pile from COL	Concrete Consumption Qty. (Cum) Theoretical	Remarks
17	STG	690	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/708	13115-13120	19.000	5.657	
18	STG	708	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/709	13151-13156	19.000	5.657	
19	STG	719	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/712	13169-13174	19.000	5.657	
20	STG	717	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/713	13175-13180	19.000	5.657	
21	STG	697	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/716	13193-13198	19.000	5.657	
22	STG	725	1	0.734	600	04-Sep-23	STG-9B/STGB/PC/717	13199-13204	19.000	5.657	
23	STG	703	1	0.734	600	05-Sep-23	STG-9B/STGB/PC/718	13241-13246	19.000	5.657	
24	STG	723	1	0.734	600	05-Sep-23	STG-9B/STGB/PC/719	13247-13252	19.000	5.657	
25	STG	715	1	0.734	600	05-Sep-23	STG-9B/STGB/PC/724	13283-13288	19.000	5.657	
26	STG	724	1	0.734	600	05-Sep-23	STG-9B/STGB/PC/725	13289-13294	19.000	5.657	
27	STG	709	1	0.734	600	05-Sep-23	STG-9B/STGB/PC/726	13295-13300	19.000	5.657	
28	STG	678	1	0.734	600	06-Sep-23	STG-9B/STGB/PC/728	13319-13324	19.000	5.657	
29	STG	684	1	0.734	600	06-Sep-23	STG-9B/STGB/PC/729	13325-13330	19.000	5.657	
30	STG	691	1	0.734	600	06-Sep-23	STG-9B/STGB/PC/731	13337-13342	19.000	5.657	
31	STG	680	1	0.734	600	06-Sep-23	STG-9B/STGB/PC/732	13343-13348	19.000	5.657	
32	STG	706	1	0.734	600	06-Sep-23	STG-9B/STGB/PC/733	13349-13354	19.000	5.657	
33	STG	711	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/737	13373-13378	19.000	5.657	
34	STG	713	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/739	13385-13390	19.000	5.657	
35	STG	720	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/740	13391-13396	19.000	5.657	
36	STG	722	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/741	13397-13402	19.000	5.657	
37	STG	679	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/744	13415-13420	19.000	5.657	
38	STG	718	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/747	13433-13438	19.000	5.657	
39	STG	712	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/748	13439-13444	19.000	5.657	
40	STG	688	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/750	13451-13456	19.000	5.657	
41	STG	694	1	0.734	600	07-Sep-23	STG-9B/STGB/PC/752	13463-13468	19.000	5.657	
42	STG	721	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/753	13469-13474	19.000	5.657	
43	STG	685	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/754	13475-13480	19.000	5.657	
44	STG	675	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/755	13481-13486	19.000	5.657	
45	STG	681	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/756	13487-13492	19.000	5.657	
46	STG	683	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/757	13493-13498	19.000	5.657	
47	STG	671	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/759	13505-13510	19.000	5.657	
48	STG	669	1	0.734	600	08-Sep-23	STG-9B/STGB/PC/761	13517-13522	19.000	5.657	
49	STG	677	1	0.734	600	09-Sep-23	STG-9B/STGB/PC/762	13523-13528	19.000	5.657	
50	STG	682	1	0.734	600	09-Sep-23	STG-9B/STGB/PC/763	13529-13534	19.000	5.657	
51	STG	686	1	0.734	600	09-Sep-23	STG-9B/STGB/PC/765	13541-13546	19.000	5.657	
52	STG	670	1	0.734	600	10-Sep-23	STG-9B/STGB/PC/767	13565-13570	19.000	5.657	
53	STG	666	1	0.734	600	10-Sep-23	STG-9B/STGB/PC/769	13577-13582	19.000	5.657	
54	STG	676	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/774	13607-13612	19.000	5.657	
55	STG	668	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/776	13619-13624	19.000	5.657	
56	STG	662	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/781	13649-13654	19.000	5.657	
57	STG	656	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/783	13661-13666	19.000	5.657	
58	STG	674	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/786	13679-13684	19.000	5.657	
59	STG	665	1	0.734	600	12-Sep-23	STG-9B/STGB/PC/788	13691-13696	19.000	5.657	
60	STG	672	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/794	13751-13756	19.000	5.657	
61	STG	663	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/795	13757-13762	19.000	5.657	
62	STG	660	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/799	13799-13804	19.000	5.657	
63	STG	667	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/800	13805-13810	19.000	5.657	
64	STG	673	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/801	13811-13816	19.000	5.657	
65	STG	654	1	0.734	600	13-Sep-23	STG-9B/STGB/PC/802	13817-13822	19.000	5.657	
66	STG	664	1	0.734	600	14-Sep-23	STG-9B/STGB/PC/803	13859-13864	19.000	5.657	
67	STG	653	1	0.734	600	14-Sep-23	STG-9B/STGB/PC/804	13865-13870	19.000	5.657	
68	STG	642	1	0.734	600	14-Sep-23	STG-9B/STGB/PC/815	13937-13942	19.000	5.657	
69	STG	657	1	0.734	600	15-Sep-23	STG-9B/STGB/PC/820	13973-13978	19.000	5.657	
70	STG	644	1	0.734	600	15-Sep-23	STG-9B/STGB/PC/822	13985-13990	19.000	5.657	
71	STG	659	1	0.734	600	15-Sep-23	STG-9B/STGB/PC/823	13991-13996	19.000	5.657	
72	STG	661	1	0.734	600	16-Sep-23	STG-9B/STGB/PC/825	14033-14038	19.000	5.657	
73	STG	651	1	0.734	600	16-Sep-23	STG-9B/STGB/PC/826	14039-14044	19.000	5.657	
74	STG	643	1	0.734	600	18-Sep-23	STG-9B/STGB/PC/828	14051-14056	19.000	5.657	
75	STG	648	1	0.734	600	19-Sep-23	STG-9B/STGB/PC/829	14081-14086	19.000	5.657	
76	STG	658	1	0.734	600	19-Sep-23	STG-9B/STGB/PC/830	14087-14092	19.000	5.657	
77	STG	650	1	0.734	600	20-Sep-23	STG-9B/STGB/PC/831	14123-14128	19.000	5.657	
78	STG	495	1	0.734	600	21-Sep-23	STG-9B/STGB/PC/832	14129-14134	19.000	5.657	
79	STG	645	1	0.734	600	21-Sep-23	STG-9B/STGB/PC/833	14135-14140	19.000	5.657	
80	STG	647	1	0.734	600	21-Sep-23	STG-9B/STGB/PC/834	14141-14146	19.000	5.657	
81	STG	655	1	0.734	600	22-Sep-23	STG-9B/STGB/PC/835	14147-14152	19.000	5.657	
82	STG	496	1	0.734	600	22-Sep-23	STG-9B/STGB/PC/836	14153-14158	19.000	5.657	
83	STG	649	1	0.734	600	22-Sep-23	STG-9B/STGB/PC/837	14159-14164	19.000	5.657	
84	STG	646	1	0.734	600	22-Sep-23	STG-9B/STGB/PC/838	14165-14170	19.000	5.657	
85	STG	652	1	0.734	600	22-Sep-23	STG-9B/STGB/PC/839	14171-14176	19.000	5.657	
86	STG	446	1	0.734	600	23-Dec-23	STG-9B/STGB/PC/840	15779-15784	19.000	5.657	
87	STG	405	1	0.734	600	23-Dec-23	STG-9B/STGB/PC/841	15815-15820	19.000	5.657	
88	STG	689	1	0.734	600	20-Jan-24	STG-9B/STGB/PC/842	17531-17536	19.000	5.657	
89	STG	225	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/843	19487-19492	19.000	5.657	
90	STG	805	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/844	19493-19498	19.000	5.657	
91	STG	339	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/845	19499-19504	19.000	5.657	
92	STG	328	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/846	19505-19510	19.000	5.657	

Sl no	Location	Pile No.	No. of Pile	Cage Weight (MT)	Pile Diameter (mm)	Date of Casting	Pour Card No.	Cube ID	Depth of pile from COL	Concrete Consumption Qty. (Cum) Theoretical	Remarks
93	STG	341	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/847	19511-19516	19.000	5.657	
94	STG	325	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/848	19517-19522	19.000	5.657	
95	STG	327	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/849	19523-19528	19.000	5.657	
96	STG	333	1	0.734	600	27-Feb-24	STG-9B/STGB/PC/850	19529-19534	19.000	5.657	
97	STG	330	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/851	19535-19540	19.000	5.657	
98	STG	899	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/852	19541-19546	19.000	5.657	
99	STG	329	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/853	19547-19552	19.000	5.657	
100	STG	900	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/854	19553-19558	19.000	5.657	
101	STG	342	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/855	19559-19564	19.000	5.657	
102	STG	334	1	0.734	600	28-Feb-24	STG-9B/STGB/PC/856	19565-19570	19.000	5.657	
103	STG	331	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/857	19571-19576	19.000	5.657	
104	STG	340	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/858	19577-19582	19.000	5.657	
105	STG	488	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/859	19583-19588	19.000	5.657	
106	STG	326	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/860	19589-19594	19.000	5.657	
107	STG	322	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/861	19595-19600	19.000	5.657	
108	STG	244	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/862	19601-19606	19.000	5.657	
109	STG	242	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/863	19607-19612	19.000	5.657	
110	STG	321	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/864	19613-19618	19.000	5.657	
111	STG	905	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/865	19619-19624	19.000	5.657	
112	STG	907	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/866	19631-19636	19.000	5.657	
113	STG	324	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/867	19637-19642	19.000	5.657	
114	STG	323	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/868	19643-19648	19.000	5.657	
115	STG	241	1	0.734	600	29-Feb-24	STG-9B/STGB/PC/869	19649-19654	19.000	5.657	
116	STG	490	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/870	19655-19660	19.000	5.657	
117	STG	255	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/871	19661-19666	19.000	5.657	
118	STG	256	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/872	19667-19672	19.000	5.657	
119	STG	491	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/873	19673-19678	19.000	5.657	
120	STG	336	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/874	19679-19684	19.000	5.657	
121	STG	338	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/875	19685-19690	19.000	5.657	
122	STG	489	1	0.734	600	01-Mar-24	STG-9B/STGB/PC/876	19691-19696	19.000	5.657	
123	STG	184	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/877	19697-19702	19.000	5.657	
124	STG	906	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/878	19703-19708	19.000	5.657	
125	STG	641	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/879	19709-19714	19.000	5.657	
126	STG	183	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/880	19715-19720	19.000	5.657	
127	STG	180	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/881	19721-19726	19.000	5.657	
128	STG	639	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/882	19727-19732	19.000	5.657	
129	STG	179	1	0.734	600	02-Mar-24	STG-9B/STGB/PC/883	19733-19738	19.000	5.657	
130	STG	186	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/884	19739-19744	19.000	5.657	
131	STG	185	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/885	19745-19750	19.000	5.657	
132	STG	182	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/886	19751-19756	19.000	5.657	
133	STG	332	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/887	19757-19762	19.000	5.657	
134	STG	638	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/888	19763-19768	19.000	5.657	
135	STG	181	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/889	19769-19774	19.000	5.657	
136	STG	640	1	0.734	600	04-Mar-24	STG-9B/STGB/PC/890	19775-19780	19.000	5.657	
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Total Pile (Pipe Corridor-1) :				40			Total concrete Qty. (CUM)		226.280		
Total Pile (CT) :				5			Total concrete Qty. (CUM)		28.285		
Total Pile (STG) :				136			Total concrete Qty. (CUM)		769.352		
Total =				181			Total (CUM) =		1023.917		

Contractor (M/s MEIL)	Consultant (M/s EIL)	Client/ Client's Representative (M/s HRRL)
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Minal Ranji

P. Sridhar
Asstt. General Manager
Pachpadra Engineers India Limited

MEASUREMENT SHEET

Document No. : 2074/PKG-09B/CON/RA23

OWNER	: HPCL RAJASTHAN REFINERY LTD (HRRL)									
PMC	: ENGINEERS INDIA LTD (EIL)									
CONTRACTOR	: MEGA ENGINEERING & INFRASTRUCTURE LTD (MEIL)									
LOA No.	: HRRL/LOA/2022/44									
PO. No.	: HRRL/PO/2022/44									
PROJECT NAME	: STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)									
DOCUMENT	: MEASUREMENT FOR GRADE SLAB									
MEASUREMENT PERIOD	: 21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)									
RA BILL No.	: 2074/PKG-09B/CON/RA23									
Drawing No.	: B224-511-9B-EST-DDE-0005 (R-3)									
3.2.3.1.(ii).2	Building Works (Pro-Rata Basis)									
3.2.3.1.(ii).2.2	Super-Structure (Pro-Rata Basis)									
3.2.3.1.(ii).2.2.1	GIS Building									
	RCC - GIS Building - Grad Slab for Cable Cellar									
Sl no	BBU Item Sl No.	Date of Casting	Slab No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks
1	3.2.3.1.(ii).2.2.1.12	11-Mar-24	Grade Slab	A-B/1-6	B224-511-9B-EST-DDE-0005	3	cum	218.00	EPCC-9B-GISB-PC-223	GRADE SLAB EL +100.30M
2	3.2.3.1.(ii).2.2.1.12	07-Mar-24	Grade Slab	A-B/6-10	B224-511-9B-EST-DDE-0005	3	cum		EPCC-9B-GISB-PC-219	
3	3.2.3.1.(ii).2.2.1.12	05-Mar-24	Grade Slab	A-B/10'-14	B224-511-9B-EST-DDE-0005	3	cum		EPCC-9B-GISB-PC-215	

Total Qty. (CUM) = 218

AS PER DRAWING, TOTAL QTY. OF GRADE SLAB (cum) :	510
EXECUTED GRADE SLAB (Grid A-B/1-14) (cum) :	218
QUANTITY CLAIMED IN THIS BILL (RA-23) :	43.00%

Minal Ranj

R. P. Patel
R. Patel
Shri Patel
Engineers India Limited
Asst. General Manager
Pachpadra

MEASUREMENT SHEET

Document No. : 2074/PKG-09B/CON/RA23

OWNER	: HPCL RAJASTHAN REFINERY LTD (HRRRL) PMC : ENGINEERS INDIA LTD (EIL)									
CONTRACTOR	: MEGHA ENGINEERING & INFRASTRUCTURE LTD (MEIL)									
LOA No.	: HRRRL/LOA/2022/44									
PO. No.	: HRRRL/PO/2022/44									
PROJECT NAME	: STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)									
DOCUMENT	: MEASUREMENT FOR PILE CAP									
MEASUREMENT PERIOD	: 21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)									
RA BILL No.	: 2074/PKG-09B/CON/RA23									
Drawing No.	: B224-511-98-ECV-DLA-VD05-0001 (R-1)									
3.2.3.1.(ii).1	PLANT CIVIL WORKS (Pro-Rata Basis)									
3.2.3.1.(ii).1.1	Sub-Structure (Pro-Rata Basis) including protective coating works where ever applicable and backfilling									
3.2.3.1.(ii).1.1.2	Cooling Tower CT4 (Pro-Rata Basis)									
RCC - Cooling Tower Foundation Raft/Pile Cap Completion										
Sl no	BBU Item Sl No.	Date of Casting	Pile Cap No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks
1	3.2.3.1.(ii).1.1.2.1	21-Feb-24	PC-1	F/8	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-043	Cooling Tower
2	3.2.3.1.(ii).1.1.2.1		PC-1	F/9	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
3	3.2.3.1.(ii).1.1.2.1		PC-1	F/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
4	3.2.3.1.(ii).1.1.2.1		PC-1	E/8	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
5	3.2.3.1.(ii).1.1.2.1		PC-1	E/9	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
6	3.2.3.1.(ii).1.1.2.1		PC-1	E/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
7	3.2.3.1.(ii).1.1.2.1		PC-1	D/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
8	3.2.3.1.(ii).1.1.2.1		PC-1	G/8	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
9	3.2.3.1.(ii).1.1.2.1		PC-1	G/9	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
10	3.2.3.1.(ii).1.1.2.1	23-Feb-24	PC-1	H/8	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-044	
11	3.2.3.1.(ii).1.1.2.1		PC-1	H/9	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
12	3.2.3.1.(ii).1.1.2.1		PC-2	I/8	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
13	3.2.3.1.(ii).1.1.2.1		PC-2	I/9	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
14	3.2.3.1.(ii).1.1.2.1		PC-1	I/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
15	3.2.3.1.(ii).1.1.2.1		PC-1	G/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
16	3.2.3.1.(ii).1.1.2.1		PC-1	H/10	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
17	3.2.3.1.(ii).1.1.2.1	26-Feb-24	PC-1	F/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-047	
18	3.2.3.1.(ii).1.1.2.1		PC-1	G/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
19	3.2.3.1.(ii).1.1.2.1		PC-1	H/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
20	3.2.3.1.(ii).1.1.2.1		PC-2	I/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
21	3.2.3.1.(ii).1.1.2.1		PC-1	F/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
22	3.2.3.1.(ii).1.1.2.1		PC-1	G/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
23	3.2.3.1.(ii).1.1.2.1		PC-1	H/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
24	3.2.3.1.(ii).1.1.2.1	28-Feb-24	PC-2	I/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-048	
25	3.2.3.1.(ii).1.1.2.1		PC-1	C/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
26	3.2.3.1.(ii).1.1.2.1		PC-1	C/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
27	3.2.3.1.(ii).1.1.2.1		PC-1	D/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
28	3.2.3.1.(ii).1.1.2.1		PC-1	D/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
29	3.2.3.1.(ii).1.1.2.1		PC-1	E/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
30	3.2.3.1.(ii).1.1.2.1	01-Mar-24	PC-1	E/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-049	
31	3.2.3.1.(ii).1.1.2.1		PC-2	A/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
32	3.2.3.1.(ii).1.1.2.1		PC-1	B/11	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
33	3.2.3.1.(ii).1.1.2.1		PC-2	A/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
34	3.2.3.1.(ii).1.1.2.1	02-Feb-24	PC-1	B/12	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-028	
35	3.2.3.1.(ii).1.1.2.1		PC-4	B/ST2	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
36	3.2.3.1.(ii).1.1.2.1		PC-4	C/ST2	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		
37	3.2.3.1.(ii).1.1.2.1	22-Mar-24	PC-4	H/ST1	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1	EPCC-9B-CT-PC-059	
38	3.2.3.1.(ii).1.1.2.1		PC-4	G/ST1	B224-511-98-ECV-DLA-VD05-0001	1	Nos	1		

Total Qty. (NOS) = **38**

AS PER DRAWING, TOTAL NOS. OF PILE CAP :	163
PREVIOUSLY CLAIMED NOS. OF PILE CAP :	125
EXECUTED NOS. OF PILE CAP :	38
QUANTITY CLAIMED IN THIS BILL (RA-23) :	25%

Mandavji

1 of 1

*P. Sridhar
Asstt. General Manager
Engineers India Limited
Archpadora*

MEASUREMENT SHEET

Document No. : 2074/PKG-098/CON/RA23

OWNER	HPCL RAJASTHAN REFINERY LTD (HRRRL)									
PMC	ENGINEERS INDIA LTD (EIL)									
CONTRACTOR	MEGA ENGINEERING & INFRASTRUCTURE LTD (MEIL)									
LOA No.	HRRRL/LOA/2022/44									
PO. No.	HRRRL/PO/2022/44									
PROJECT NAME	STC & ASSOCIATED SYSTEMS (PACKAGE- 09B)									
DOCUMENT	MEASUREMENT FOR PEDESTAL									
MEASUREMENT PERIOD	21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)									
RA BILL No.	2074/PKG-098/CON/RA23									
Drawing No.	B224-511-9B-ECV-DLA-VD05-0001 (R-1)									
3.2.3.1.(ii).1	PLANT CIVIL WORKS (Pro-Rata Basis)									
3.2.3.1.(ii).1.1	Sub-Structure (Pro-Rata Basis) including protective coating works where ever applicable and backfilling									
3.2.3.1.(ii).1.1.2	Cooling Tower CT4 (Pro-Rata Basis)									
RCC - Cooling Tower Pedestal Column up to Plinth Level										
Sl no	BBU Item Sl No.	Date of Casting	Column No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks
1	3.2.3.1.(ii).1.1.2.2	13-Jan-24	Col	A/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-013	Cooling Tower
2	3.2.3.1.(ii).1.1.2.2		Col	A/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
3	3.2.3.1.(ii).1.1.2.2		Col	B/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
4	3.2.3.1.(ii).1.1.2.2	16-Jan-24	Col	B/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-017	
5	3.2.3.1.(ii).1.1.2.2		Col	C/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
6	3.2.3.1.(ii).1.1.2.2		Col	D/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
7	3.2.3.1.(ii).1.1.2.2		Col	C/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
8	3.2.3.1.(ii).1.1.2.2		Col	D/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
9	3.2.3.1.(ii).1.1.2.2	23-Jan-24	Col	E/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-022	
10	3.2.3.1.(ii).1.1.2.2		Col	E/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
11	3.2.3.1.(ii).1.1.2.2		Col	E/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
12	3.2.3.1.(ii).1.1.2.2		Col	C/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
13	3.2.3.1.(ii).1.1.2.2		Col	D/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
14	3.2.3.1.(ii).1.1.2.2	27-Jan-24	Col	A/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-023	
15	3.2.3.1.(ii).1.1.2.2		Col	B/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
16	3.2.3.1.(ii).1.1.2.2		Col	A/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
17	3.2.3.1.(ii).1.1.2.2		Col	B/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
18	3.2.3.1.(ii).1.1.2.2		Col	C/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
19	3.2.3.1.(ii).1.1.2.2		Col	D/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
20	3.2.3.1.(ii).1.1.2.2	31-Jan-24	Col	A/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-026	
21	3.2.3.1.(ii).1.1.2.2		Col	B/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
22	3.2.3.1.(ii).1.1.2.2		Col	A/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
23	3.2.3.1.(ii).1.1.2.2		Col	B/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
24	3.2.3.1.(ii).1.1.2.2		Col	D/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
25	3.2.3.1.(ii).1.1.2.2	02-Feb-24	Col	C/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-028	
26	3.2.3.1.(ii).1.1.2.2		Col	C/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
27	3.2.3.1.(ii).1.1.2.2		Col	E/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
28	3.2.3.1.(ii).1.1.2.2	03-Feb-24	Col	D/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-029	
29	3.2.3.1.(ii).1.1.2.2		Col	E/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
30	3.2.3.1.(ii).1.1.2.2	03-Feb-24	Col	A/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-030	
31	3.2.3.1.(ii).1.1.2.2		Col	B/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
32	3.2.3.1.(ii).1.1.2.2		Col	C/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
33	3.2.3.1.(ii).1.1.2.2	05-Feb-24	Col	D/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-032	
34	3.2.3.1.(ii).1.1.2.2		Col	E/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
35	3.2.3.1.(ii).1.1.2.2		Col	F/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
36	3.2.3.1.(ii).1.1.2.2		Col	E/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
37	3.2.3.1.(ii).1.1.2.2		Col	F/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
38	3.2.3.1.(ii).1.1.2.2	06-Feb-24	Col	F/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-033	
39	3.2.3.1.(ii).1.1.2.2		Col	G/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
40	3.2.3.1.(ii).1.1.2.2		Col	H/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
41	3.2.3.1.(ii).1.1.2.2		Col	I/1	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
42	3.2.3.1.(ii).1.1.2.2		Col	B/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
43	3.2.3.1.(ii).1.1.2.2	08-Feb-24	Col	C/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-034	
44	3.2.3.1.(ii).1.1.2.2		Col	D/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
45	3.2.3.1.(ii).1.1.2.2		Col	E/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
46	3.2.3.1.(ii).1.1.2.2		Col	F/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
47	3.2.3.1.(ii).1.1.2.2		Col	G/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
48	3.2.3.1.(ii).1.1.2.2		Col	H/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
49	3.2.3.1.(ii).1.1.2.2		Col	I/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
50	3.2.3.1.(ii).1.1.2.2		Col	G/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
51	3.2.3.1.(ii).1.1.2.2		Col	G/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
52	3.2.3.1.(ii).1.1.2.2		Col	H/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
53	3.2.3.1.(ii).1.1.2.2		Col	I/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
54	3.2.3.1.(ii).1.1.2.2		Col	F/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
55	3.2.3.1.(ii).1.1.2.2		Col	G/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		

Sl no	BBU Item Sl No.	Date of Casting	Column No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks
56	3.2.3.1.(ii).1.1.2.2	09-Feb-24	Col	H/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-035	
57	3.2.3.1.(ii).1.1.2.2		Col	I/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
58	3.2.3.1.(ii).1.1.2.2		Col	B/ST2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
59	3.2.3.1.(ii).1.1.2.2		Col	C/ST2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
60	3.2.3.1.(ii).1.1.2.2		Col	A/2	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
61	3.2.3.1.(ii).1.1.2.2		Col	C/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
62	3.2.3.1.(ii).1.1.2.2		Col	D/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
63	3.2.3.1.(ii).1.1.2.2		Col	F/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
64	3.2.3.1.(ii).1.1.2.2		Col	G/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
65	3.2.3.1.(ii).1.1.2.2		Col	H/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
66	3.2.3.1.(ii).1.1.2.2		Col	I/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
67	3.2.3.1.(ii).1.1.2.2	10-Feb-24	Col	A/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-036	
68	3.2.3.1.(ii).1.1.2.2		Col	E/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
69	3.2.3.1.(ii).1.1.2.2		Col	B/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
70	3.2.3.1.(ii).1.1.2.2		Col	C/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
71	3.2.3.1.(ii).1.1.2.2		Col	D/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
72	3.2.3.1.(ii).1.1.2.2		Col	F/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
73	3.2.3.1.(ii).1.1.2.2		Col	G/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
74	3.2.3.1.(ii).1.1.2.2		Col	H/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
75	3.2.3.1.(ii).1.1.2.2		Col	I/14	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
76	3.2.3.1.(ii).1.1.2.2	12-Feb-24	Col	B/3	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-037	
77	3.2.3.1.(ii).1.1.2.2		Col	A/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
78	3.2.3.1.(ii).1.1.2.2		Col	E/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
79	3.2.3.1.(ii).1.1.2.2		Col	H/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
80	3.2.3.1.(ii).1.1.2.2		Col	I/4	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
81	3.2.3.1.(ii).1.1.2.2	13-Feb-24	Col	A/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-038	
82	3.2.3.1.(ii).1.1.2.2		Col	B/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
83	3.2.3.1.(ii).1.1.2.2		Col	C/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
84	3.2.3.1.(ii).1.1.2.2		Col	D/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
85	3.2.3.1.(ii).1.1.2.2		Col	E/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
86	3.2.3.1.(ii).1.1.2.2		Col	F/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
87	3.2.3.1.(ii).1.1.2.2		Col	G/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
88	3.2.3.1.(ii).1.1.2.2		Col	H/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
89	3.2.3.1.(ii).1.1.2.2		Col	I/5	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
90	3.2.3.1.(ii).1.1.2.2		Col	A/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
91	3.2.3.1.(ii).1.1.2.2	15-Feb-24	Col	B/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-039	
92	3.2.3.1.(ii).1.1.2.2		Col	C/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
93	3.2.3.1.(ii).1.1.2.2		Col	D/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
94	3.2.3.1.(ii).1.1.2.2		Col	E/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
95	3.2.3.1.(ii).1.1.2.2		Col	F/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
96	3.2.3.1.(ii).1.1.2.2		Col	G/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
97	3.2.3.1.(ii).1.1.2.2		Col	H/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
98	3.2.3.1.(ii).1.1.2.2	19-Feb-24	Col	I/6	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-041	
99	3.2.3.1.(ii).1.1.2.2		Col	A/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
100	3.2.3.1.(ii).1.1.2.2		Col	B/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
101	3.2.3.1.(ii).1.1.2.2		Col	C/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
102	3.2.3.1.(ii).1.1.2.2		Col	D/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
103	3.2.3.1.(ii).1.1.2.2		Col	E/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
104	3.2.3.1.(ii).1.1.2.2		Col	F/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
105	3.2.3.1.(ii).1.1.2.2		Col	G/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
106	3.2.3.1.(ii).1.1.2.2		Col	H/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
107	3.2.3.1.(ii).1.1.2.2		Col	I/7	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
108	3.2.3.1.(ii).1.1.2.2	23-Feb-24	Col	A/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-045	
109	3.2.3.1.(ii).1.1.2.2		Col	B/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
110	3.2.3.1.(ii).1.1.2.2		Col	C/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
111	3.2.3.1.(ii).1.1.2.2		Col	D/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
112	3.2.3.1.(ii).1.1.2.2		Col	E/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
113	3.2.3.1.(ii).1.1.2.2		Col	H/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
114	3.2.3.1.(ii).1.1.2.2		Col	F/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
115	3.2.3.1.(ii).1.1.2.2	26-Feb-24	Col	G/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-046	
116	3.2.3.1.(ii).1.1.2.2		Col	I/7X	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
117	3.2.3.1.(ii).1.1.2.2		Col	A/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
118	3.2.3.1.(ii).1.1.2.2		Col	B/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
119	3.2.3.1.(ii).1.1.2.2		Col	C/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
120	3.2.3.1.(ii).1.1.2.2		Col	C/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
121	3.2.3.1.(ii).1.1.2.2		Col	C/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
122	3.2.3.1.(ii).1.1.2.2	26-Feb-24	Col	A/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-047	
123	3.2.3.1.(ii).1.1.2.2		Col	B/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
124	3.2.3.1.(ii).1.1.2.2	28-Feb-24	Col	A/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-048	
125	3.2.3.1.(ii).1.1.2.2		Col	B/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		

Sl no	BBU Item Sl No.	Date of Casting	Column No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks
126	3.2.3.1.(ii).1.1.2.2	01-Mar-24	Col	D/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-050	
127	3.2.3.1.(ii).1.1.2.2		Col	E/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
128	3.2.3.1.(ii).1.1.2.2		Col	F/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
129	3.2.3.1.(ii).1.1.2.2		Col	G/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
130	3.2.3.1.(ii).1.1.2.2		Col	H/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
131	3.2.3.1.(ii).1.1.2.2		Col	I/8	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
132	3.2.3.1.(ii).1.1.2.2		Col	D/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
133	3.2.3.1.(ii).1.1.2.2		Col	E/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
134	3.2.3.1.(ii).1.1.2.2		Col	F/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
135	3.2.3.1.(ii).1.1.2.2		Col	G/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
136	3.2.3.1.(ii).1.1.2.2	02-Mar-24	Col	H/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-051	
137	3.2.3.1.(ii).1.1.2.2		Col	I/9	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
138	3.2.3.1.(ii).1.1.2.2		Col	D/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
139	3.2.3.1.(ii).1.1.2.2		Col	E/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
140	3.2.3.1.(ii).1.1.2.2		Col	F/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
141	3.2.3.1.(ii).1.1.2.2		Col	G/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
142	3.2.3.1.(ii).1.1.2.2		Col	H/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
143	3.2.3.1.(ii).1.1.2.2		Col	I/10	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
144	3.2.3.1.(ii).1.1.2.2		Col	F/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
145	3.2.3.1.(ii).1.1.2.2		Col	G/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
146	3.2.3.1.(ii).1.1.2.2	05-Mar-24	Col	H/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-052	
147	3.2.3.1.(ii).1.1.2.2		Col	I/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
148	3.2.3.1.(ii).1.1.2.2		Col	C/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
149	3.2.3.1.(ii).1.1.2.2		Col	D/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
150	3.2.3.1.(ii).1.1.2.2		Col	E/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
151	3.2.3.1.(ii).1.1.2.2		Col	D/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
152	3.2.3.1.(ii).1.1.2.2		Col	E/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
153	3.2.3.1.(ii).1.1.2.2		Col	F/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
154	3.2.3.1.(ii).1.1.2.2		Col	G/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
155	3.2.3.1.(ii).1.1.2.2		Col	H/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
156	3.2.3.1.(ii).1.1.2.2	06-Mar-24	Col	I/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1	EPCC-9B-CT-PC-053	
157	3.2.3.1.(ii).1.1.2.2		Col	A/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
158	3.2.3.1.(ii).1.1.2.2		Col	B/11	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
159	3.2.3.1.(ii).1.1.2.2		Col	A/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
160	3.2.3.1.(ii).1.1.2.2		Col	B/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
161	3.2.3.1.(ii).1.1.2.2		Col	C/12	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	1		
162	3.2.3.1.(ii).1.1.2.2		Col	C/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
163	3.2.3.1.(ii).1.1.2.2		Col	D/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
164	3.2.3.1.(ii).1.1.2.2		Col	A/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
165	3.2.3.1.(ii).1.1.2.2		Col	B/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
166	3.2.3.1.(ii).1.1.2.2	07-Mar-24	Col	C/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-	EPCC-9B-CT-PC-054	
167	3.2.3.1.(ii).1.1.2.2		Col	D/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
168	3.2.3.1.(ii).1.1.2.2		Col	E/18	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
169	3.2.3.1.(ii).1.1.2.2		Col	A/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
170	3.2.3.1.(ii).1.1.2.2		Col	B/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
171	3.2.3.1.(ii).1.1.2.2		Col	E/19	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
172	3.2.3.1.(ii).1.1.2.2		Col	A/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
173	3.2.3.1.(ii).1.1.2.2		Col	C/15	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
174	3.2.3.1.(ii).1.1.2.2		Col	A/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
175	3.2.3.1.(ii).1.1.2.2	09-Mar-24	Col	B/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-	EPCC-9B-CT-PC-055	
176	3.2.3.1.(ii).1.1.2.2		Col	C/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
177	3.2.3.1.(ii).1.1.2.2		Col	D/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
178	3.2.3.1.(ii).1.1.2.2		Col	E/16	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
179	3.2.3.1.(ii).1.1.2.2		Col	A/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
180	3.2.3.1.(ii).1.1.2.2		Col	B/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		
181	3.2.3.1.(ii).1.1.2.2		Col	C/17	B224-511-9B-ECV-DLA-VD05-0002	2	Nos	-		

Total Qty. (NOS) = **161**

AS PER DRAWING, TOTAL NOS. OF PEDESTAL : **181**

EXECUTED NOS. OF PEDESTAL : **161**

QUANTITY CLAIMED IN THIS BILL (RA-23) : **89%**

Minal Paraj

R. Sridhar
P. Sridhar
Asstt. General Manager
Engineers India Limited
M/s. Shreyas
Engineering & Construction
Loknayak Jai Prakash Marg
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Chennai - 600005
Tamil Nadu, India
Ph: +91 98400 48888

MEASUREMENT SHEET								2074/PKG-09B/CON/RA23	
OWNER	: HPCL RAJASTHAN REFINERY LTD (HRRRL)								
PMC	: ENGINEERS INDIA LTD (EIL)								
CONTRACTOR	: MEGHA ENGINEERING & INFRASTRUCTURE LTD (MEIL)								
LOA No.	: HRRRL/LOA/2022/44								
PO. No.	: HRRRL/PO/2022/44								
PROJECT NAME	: STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)								
DOCUMENT	: MEASUREMENT FOR TIE BEAM								
MEASUREMENT PERIOD	: 21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)								
RA BILL No.	: 2074/PKG-09B/CON/RA23								
Drawing No.	: B224-511-9B-ECV-DLA-VD05-0001 (R-1)								
3.2.3.1.(ii).1	PLANT CIVIL WORKS (Pro-Rata Basis)								
3.2.3.1.(ii).1.1	Sub-Structure (Pro-Rata Basis) including protective coating works where ever applicable and backfilling								
3.2.3.1.(ii).1.1.2	Cooling Tower CT4 (Pro-Rata Basis)								
RCC - Cooling Tower Plinth Beam Completion (including Bottom Raft)									
Sl no	BBU Item Sl No.	Area	Beam No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Remarks
1	3.2.3.1.(ii).1.1.2.3	N-S side	TB	D-I/8-10	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	15	Cooling Tower
2	3.2.3.1.(ii).1.1.2.3		TB	A-I/11-12	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	16	
3	3.2.3.1.(ii).1.1.2.3	E-W side	TB	E-I/7X-10	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	15	
4	3.2.3.1.(ii).1.1.2.3		TB	A-E/10-13	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	27	
5	3.2.3.1.(ii).1.1.2.3		TB	G/H-ST1	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	3	
6	3.2.3.1.(ii).1.1.2.3		TB	G/H-ST1	B224-511-9B-ECV-DLA-VD05-0001	1	Nos	3	
								Total Qty. (NOS) = 79	
								AS PER DRAWING, TOTAL NOS. OF BEAM : 312	
								PREVIOUSLY CLAIMED NOS. OF BEAM : 233	
								EXECUTED NOS. OF BEAM : 79	
								QUANTITY CLAIMED IN THIS BILL (RA-23) : 25%	

Murali Ray

P. Sridhar
Asst. General Manager
MEGHA Engineering & Infrastructure Engineers India Limited
Plot No. 10, Sector 10, Industrial Area, Uppal, Hyderabad
Mobile: +91 98490 12345
Email: upnp.pachpadra@gmail.com

MEASUREMENT SHEET								Document No. : 2074/PKG-09B/CON/RA23											
OWNER	HPCL RAJASTHAN REFINERY LTD (HRRL)																		
PMC	ENGINEERS INDIA LTD (EIL)																		
CONTRACTOR	MEGHA ENGINEERING & INFRASTRUCTURE LTD (MEIL)																		
LOA No.	HRRL/LOA/2022/44																		
PO. No.	HRRL/PO/2022/44																		
PROJECT NAME	STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)																		
DOCUMENT	MEASUREMENT FOR PILE CAP																		
MEASUREMENT PERIOD	21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)																		
RA BILL No.	2074/PKG-09B/CON/RA23																		
Drawing No.	B224-511-9B-EST-DDE-1100 (R-1)																		
3.2.3.1.(ii).1	PLANT CIVIL WORKS (Pro-Rata Basis)																		
3.2.3.1.(ii).1.1	Sub-Structure (Pro-Rata Basis) including protective coating works where ever applicable and backfilling																		
3.2.3.1.(ii).1.1.3	Pipe Rack (Pro-Rata Basis)																		
RCC - PR-03- Foundation Raft/Pile Cap Completion																			
Sl no	BBU Item Sl No.	Date of Casting	Pile Cap No.	Grid No.	Drawing Number	Rev No.	UoM	Quantity	Pour Card No.	Remarks									
1	3.2.3.1.(ii).1.1.3.1	14-Mar-24	PC-1	M/33a	B224-511-9B-EST-DDE-1100	1	Nos	1	EPCC-9B-PR-03-PC-001	PR-3									
2	3.2.3.1.(ii).1.1.3.1	15-Mar-24	PC-1	M/34a	B224-511-9B-EST-DDE-1100	1	Nos	1	EPCC-9B-PR-03-PC-002										
3	3.2.3.1.(ii).1.1.3.1	16-Mar-24	PC-1	M/35a	B224-511-9B-EST-DDE-1100	1	Nos	1	EPCC-9B-PR-03-PC-003										
4	3.2.3.1.(ii).1.1.3.1	22-Mar-24	PC-5	N/34a	B224-511-9B-EST-DDE-1100	1	Nos	1	EPCC-9B-PR-03-PC-004										
5	3.2.3.1.(ii).1.1.3.1	20-Mar-24	PC-6	N/35a	B224-511-9B-EST-DDE-1100	1	Nos	1	EPCC-9B-PR-03-PC-005										
Total Qty. (NOS) = 5																			
<table border="1" style="width: 100%;"> <tr> <td colspan="2">AS PER DRAWING, TOTAL NOS. OF PILE CAP :</td> <td>10</td> </tr> <tr> <td colspan="2">EXECUTED NOS. OF PILE CAP :</td> <td>5</td> </tr> <tr> <td colspan="2">QUANTITY CLAIMED IN THIS BILL (RA-23) :</td> <td>50%</td> </tr> </table>											AS PER DRAWING, TOTAL NOS. OF PILE CAP :		10	EXECUTED NOS. OF PILE CAP :		5	QUANTITY CLAIMED IN THIS BILL (RA-23) :		50%
AS PER DRAWING, TOTAL NOS. OF PILE CAP :		10																	
EXECUTED NOS. OF PILE CAP :		5																	
QUANTITY CLAIMED IN THIS BILL (RA-23) :		50%																	


 P. Sridhar
 Asstt. General Manager
 Engineers India Limited
 श्रीराम प्रसाद लिमिटेड
 उत्तरायण मुंबई, महाराष्ट्र, भारत
 नम्बर 10, अर्था-पैकेज, HRRP-Pachpadra

MEASUREMENT SHEET

2074/PKG-09B/CON/RA23

OWNER	HPCL RAJASTHAN REFINERY LTD (HRRL)								
PMC	ENGINEERS INDIA LTD (EIL)								
CONTRACTOR	MEGHA ENGINEERING & INFRASTRUCTURE LTD (MEIL)								
LOA No.	HRRL/LOA/2022/44								
PO. No.	HRRL/PO/2022/44								
PROJECT NAME	STG & ASSOCIATED SYSTEMS (PACKAGE- 09B)								
DOCUMENT	MEASUREMENT FOR CABLE TRENCH								
MEASUREMENT PERIOD	21/10/2023 - 20/01/2024 (Unclaimed Measurements) & 21/02/2024 to 20/03/2024 (Current Measurements)								
RA BILL No.	2074/PKG-09B/CON/RA23								
Drawing No.	B224-511-9B-EST-DDE-0011 (R-3)								
3.2.3.1.(ii).1	PLANT CIVIL WORKS (Pro-Rata Basis)								
3.2.3.1.(ii).1.5	Misc. (Cable Trench,Road,Drain,etc.) (Pro-Rata Basis)								
3.2.3.1.(ii).1.5.1	Cable Trench								
	RCC - Building Cable Trench								
Sl no	BBU Item Sl No.	Activity	Description	Grid No.	L	B	D	Quantity	Remarks
1	3.2.3.1.(ii).1.5.1.1	Raft	Cable Trench (GIS Building)	A-B (1-8)	48.00	4.40	0.30	63.36	
2	3.2.3.1.(ii).1.5.1.1	Wall (L)			48.00	0.30	2.40	34.56	
3	3.2.3.1.(ii).1.5.1.1	Wall (R)			48.00	0.30	2.40	34.56	
Total Qty. (CUM) =		132.48							
AS PER DRAWING, TOTAL QTY. OF CABLE TRENCH (cum) : 887.68									
EXECUTED CABLE TRENCH (Grid A-B/1-14) (cum) : 273.62									
RECOMMENDED FOR PAYMENT (Qty.= 132.48 cum) (Since, Cable Trench Drawings are not yet finalized for Package-09B) : 132.48 (15%)									

Minal Paraj

Mr. Shrikant Pachpadra
Shrikant Pachpadra
इंजीनियर इंडिया लिमिटेड
एव्ह.आर.पी.-पक्षपद्रा HRPP-Pachpadra

P. Pachpadra
P. Pachpadra
General Manager
Engineers India Limited