

**MEGHA ENGINEERING & INFRASTRUCTURES LIMITED**

An ISO 9001 - 2015 Company

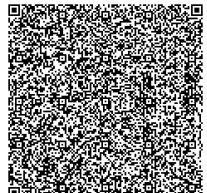
Reg. Office : 2ND, PLOT A-63,, 80 FEET ROAD, SHRI GOPAL NAGAR, NEAR SOMANI HOSPITAL,  
Site Addr. :JAIPUR,

Phn No : 040-44336700

GSTIN : 08AAECM7627A1ZN

CIN NO : U45202TG2006PLC050271

IRN No : 6060014f5ff48a8d15d3adae6fbbae03c75fb79ef18012ef7d36351712e66adf

**TAX INVOICE**

(Section 31 Of Rule 46 Of Tax Invoice, Debit Note &amp; Credit Note Rules)

<b>Invoice No</b>	<b>RJ/22/EPC/51</b>			<b>Site Ref. No</b>	2050/EPCC-6/CON/RA-.3												
<b>Date</b>	24/08/2022			<b>Your Order Ref No</b>	HRRL/PO/2021/21 Dt. 08-02-2022												
<b>State Name</b>	RAJASTHAN			<b>Date Of Supply</b>	24/08/2022												
<b>State Code</b>	08			<b>Place Of Supply</b>	RAJASTHAN												
<b>Name &amp; Address Of The Receiver/Billed To:</b>				<b>Name &amp; Address Of The Consignee/Shippe To:</b>													
<b>M/s. HPCL RAJASTHAN REFINERY LIMITED-2050</b>				<b>M/s. HPCL RAJASTHAN REFINERY LIMITED-2050</b>													
Tel Bhawan, Sahkar Marg, Lal Kothi Vistar, Jyoti Nagar, Jaipur- 302005, Rajasthan, India.				Tel Bhawan, Sahkar Marg, Lal Kothi Vistar, Jyoti Nagar, Jaipur- 302005, Rajasthan, India.													
<b>GSTIN :</b>	08AADCH2828K1ZF			<b>GSTIN :</b>	08AADCH2828K1ZF												
<b>State :</b>	RAJASTHAN		<b>Code :</b>	08	<b>State :</b>	RAJASTHAN											
<b>SLNo</b>	<b>Description</b>		<b>Units</b>	<b>HSN/SAC Code</b>	<b>Qty</b>	<b>Rate</b>	<b>Taxable</b>	<b>GST %</b>									
								<b>CGST</b>	<b>SGST</b>	<b>IGST</b>							
1	.. FOR CONSTRUCTION/ SITE WORK- CIVIL WORKS:- As per SCC Clause 3.2.3.1- (i), On completion of piling works on pro-rata basis as per the approved schedule of activites. Bill period from 01-06-2022 To 31-07-2022.		nos	995425	1.00	4,53,38,272.00	4,53,38,272.00	9.00	9.00								
<b>Total</b>					1.00		4,53,38,272.00										
<b>Mode Of Transport</b>				<b>Basic :</b>				<b>4,53,38,272.00</b>									
<b>Vehicle No</b>				<b>Add. Freight :</b>				<b>0.00</b>									
<b>Net In Words :</b> Five Crore Thirty Four Lakh Ninety Nine Thousand One Hundred Sixty And Ninety Six								<b>0.00</b>									
<b>Bank Deetals :</b>								<b>0.00</b>									
<b>Bank Name :</b>	YES BANK LTD			<b>Sub Total :</b>				<b>4,53,38,272.00</b>									
<b>Account No</b>	000681400002034			<b>Add. CGST :</b>				<b>40,80,444.48</b>									
<b>IFSC Code</b>	YESB0000006			<b>Add. SGST :</b>				<b>40,80,444.48</b>									
<b>Branch</b>	SOMAJIGUDA BRANCH			<b>Add. IGST :</b>				<b>0.00</b>									
<b>Vendor Code :</b>								<b>0.00</b>									
<b>PO / WO No :</b> HRRL/PO/2021/21								<b>5,34,99,160.96</b>									
<b>Email For Communication :</b> doriah@meil.in								<b>for MEGHA ENGINEERING &amp; INFRASTRUCTURE LTD</b>									
<b>Contact No :</b> 9908732279								<b>Authorized Signatory</b>									
<b>TERMS &amp; CONDITIONS :</b>																	
1. Certified that the particulars given above are true & correct. 2. All Correspondence should be addressed to our registered office.																	



PROJECT NAME: EPCC-06 PACKAGE - SULPHUR RECOVERY BLOCK FOR RAJASTHAN REFINERY PROJECT (RRP)  
 of M/s HPCL Rajasthan Refinery Limited (HRRL)  
 at Barmer, Rajasthan, India

નેગેરીંગ ઇન્જિનીઅર્સ  
 ઇન્ડિયા લિમિટેડ  
 (A Govt. of India Undertaking)



MEMORANDUM OF PAYMENT

Name of the Project	EPCC-06 Package - Sulphur Recovery Block (SRB) for Rajasthan Refinery Project (RRP)																					
Client	HPCL Rajasthan Refinery Limited																					
PMC	Engineers India Limited (EIL)																					
Contractor	M/s Megha Engineering & Infrastructures Ltd.																					
Customer Order No & date	HRRL/LOA/2021/21 Dated. 23.08.2021																					
PO No & date	HRRL/PO/2021/21 Dt. 08-02-2022																					
Contractual Completion date	22nd Jan. 2024																					
Extension of time period if any	Nil																					
Contract value	Mentioned Below																					
SBI TT Buying Rate	EUR	INR																				
	0.00	1.00																				
Period of measurement	From 01st June 2022 To 31st July 2022																					
RA Bill No	CON / RA03																					
Bill Date	24th Aug. 2022																					
S.No.	Description	Discipline	Contract Value (EUR)	Contract Value (INR)	Upto Previous Bill			This Bill			Cumulative Bill											
					EUR	INR	Equil. INR	EUR	INR	Equil. INR	EUR	INR	Equil. INR									
1	Net Value of Work done	Design & Detailed Engineering	9,120,000.00	410,400,000	-	-	-	-	-	-	-	-										
		Supply- 10%	2,736,000	533,520,000	-	-	-	-	-	-	-	-										
		Supply- 90%	24,624,000	4,801,680,000	-	-	-	-	-	-	-	-										
		Construction	-	4,611,200,000	-	68,233,991.70	68,233,991.70	-	45,338,271.50	45,338,271.50	-	113,572,263.20	113,572,263.20									
		Total	36,480,000	10,356,800,000	-	68,233,991.70	68,233,991.70	-	45,338,271.50	45,338,271.50	-	113,572,263.20	113,572,263.20									
2	SGST @ 9% on Sr. No. 1				6,141,059.25				4,080,444.44			10,221,503.69										
3	CGST @ 9% on Sr. No. 1				6,141,059.25				4,080,444.44			10,221,503.69										
4	Gross value of work done				80,516,110.21				53,499,160.37			134,015,270.58										
5	Recoveries if any				-																	
6	Amount after recoveries				80,516,110.21			-	53,499,160.37			134,015,270.58										
7	Hold amount if any																					
8	Hold amount release if any																					
9	Amount after Recovery and hold release				80,516,110.21			-	53,499,160.37			134,015,270.58										
Payable amount in words (INR)	FIVE CRORE THIRTY FOUR LAKH NINETY NINE THOUSAND ONE HUNDRED SIXTY AND THIRTY SEVEN ONLY																					
Encl :	Abstract Summary Measurement Summary Sheet Measurement Sheet Approved Construction Billing Schedule (Part-1) Power Of Attorney Purchase Order Copy																					
Detail of Remittance:																						
Beneficiary Name: Megha Engineering & Infrastructures Limited																						
Beneficiary Bank: YES Bank Ltd., Somajiguda Branch, Hyderabad- 500 082.																						
Account No.: 000681400002034																						
IFSC Code: YESB0000006																						
For MEIL							For EIL															



**ABSTRACT SUMMARY**

Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India Limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cummulative Bill	
								INR	INR	Qty	Amount	Qty	Amount
3.2.3.1	Civil (Including Site Readiness,Piling, Civil and its supply materials)					95,39,88,000.00				6,82,33,991.70		4,53,38,271.50	
3.2.3.1.1	On completion of Piling Works on Pro-rata basis		4000			9,53,98,800.00				6,82,33,991.70		44,59,893.90	
3.2.3.1.1.1	Piling		4000			9,53,98,800.00	23,849.70	2861	6,82,33,991.70	187	44,59,893.90	3048	7,26,93,885.60
3.2.3.1.2	On Completion of individual item of work on pro-rata basis					76,31,90,400.00						4,08,78,377.60	4,08,78,377.60
3.2.3.1.2.1	RCC- Sub Structure / Fdns / Other Works with protective coating (wherever applicable)												
3.2.3.1.2.1.1	COLUMNS					1,86,98,164.80							
3.2.3.1.2.1.1.1	1 St Stage Sour Water Stripper-Raft Completion	Nos	1		118-C-0001	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.2	1 St Stage Sour Water Stripper-Pedestal Completion	Nos	1		118-C-0001	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.3	Sour Water Stripper-II-Raft Completion	Nos	1		119-C-0001	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.4	Sour Water Stripper-II-Pedestal Completion	Nos	1		119-C-0001	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.5	2 Nd Stage Sour Water Stripper-Raft Completion	Nos	1		118-C-0002	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.6	2 Nd Stage Sour Water Stripper-Pedestal Completion	Nos	1		118-C-0002	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.7	Mdea Regenerator-Raft Completion	Nos	1		121-C-0201	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.8	Mdea Regenerator-Pedestal Completion	Nos	1		121-C-0201	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.9	Amine Regenerator (Train-2)-Raft Completion	Nos	1		120-C-2002	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.10	Amine Regenerator (Train-2)-Pedestal Completion	Nos	1		120-C-2002	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.11	Quench Tower (Train-2)-Raft Completion	Nos	1		121-C-2101	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.12	Quench Tower (Train-2)-Pedestal Completion	Nos	1		121-C-2101	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.13	MDEA Absorber (Train-2)-Raft Completion	Nos	1		121-C-2201	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.14	MDEA Absorber (Train-2)-Pedestal Completion	Nos	1		121-C-2201	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.15	Quench Tower (Train-1)-Raft Completion	Nos	1		121-C-1101	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.16	Quench Tower (Train-1)-Pedestal Completion	Nos	1		121-C-1101	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.17	MDEA Absorber (Train-1)-Raft Completion	Nos	1		121-C-1201	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.18	MDEA Absorber (Train-1)-Pedestal Completion	Nos	1		121-C-1201	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.19	Amine Regenerator (Train-1)-Raft Completion	Nos	1		120-C-1002	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.20	Amine Regenerator (Train-1)-Pedestal Completion	Nos	1		120-C-1002	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.21	Flash Gas Absorber (Train-1)-Raft Completion	Nos	1		120-C-1001	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.22	Flash Gas Absorber (Train-1)-Pedestal Completion	Nos	1		120-C-1001	6,23,272.16	6,23,272.16						
3.2.3.1.2.1.1.23	Flash Gas Absorber (Train-2)-Raft Completion	Nos	1		120-C-2001	9,34,908.24	9,34,908.24						
3.2.3.1.2.1.1.24	Flash Gas Absorber (Train-2)-Pedestal Completion	Nos	1		120-C-2001	6,23,272.16	6,23,272.16						
3.2.3.1.2.2	EXCHANGERS					1,74,00,741.12							
3.2.3.1.2.2.1	First Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-E-1001	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.2	First Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-1001	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.3	Second Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-F-1003	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.4	Second Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-1003	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.5	Final Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-E-1005	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.6	Final Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-1005	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.7	First Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-E-2001	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.8	First Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-2001	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.9	Second Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-E-2003	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.10	Second Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-2003	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.11	Final Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1		121-E-2005	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.12	Final Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1		121-E-2005	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.13	Lean Amine Trim Cooler (Train-1)-Raft Completion	Nos	1		120-E-1003 A	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.14	Lean Amine Trim Cooler (Train-1)-Pedestal Completion	Nos	1		120-E-1003 A	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.15	Lean Amine Trim Cooler (Train-1)-Raft Completion	Nos	1		120-E-1003 B	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.16	Lean Amine Trim Cooler (Train-1)-Pedestal Completion	Nos	1		120-E-1003 B	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.17	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1		120-E-1001A	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.18	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1		120-E-1001A	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.19	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1		120-E-1001B	4,97,164.03	4,97,164.03						
3.2.3.1.2.2.20	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1		120-E-1001B	3,31,442.69	3,31,442.69						
3.2.3.1.2.2.2													

**ABSTRACT SUMMARY**

Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 {Dt: 23-08-2021}

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cummulative Bill	
								INR	INR	Qty	Amount	Qty	Amount
3.2.3.1.2.2.33	Rich/Lean Mdea Exchangers-Raft Completion	Nos	1		119-E-0001 A/B	4,97,164.03	4,97,164.03						-
3.2.3.1.2.2.34	Rich/Lean Mdea Exchangers-Pedestal Completion	Nos	1		119-E-0001 A/B	3,31,442.69	3,31,442.69						-
3.2.3.1.2.2.35	Stripped Water Cooler-Raft Completion	Nos	1		119-E-0003 A/B	4,97,164.03	4,97,164.03						-
3.2.3.1.2.2.36	Stripped Water Cooler-Pedestal Completion	Nos	1		119-E-0003 A/B	3,31,442.69	3,31,442.69						-
3.2.3.1.2.2.37	1 St Stage Feed 2 Nd Stage Bottom Exchanger-Raft Completion	Nos	1		118-E-0005 A/B	4,97,164.03	4,97,164.03						-
3.2.3.1.2.2.38	1 St Stage Feed 2 Nd Stage Bottom Exchanger-Pedestal Completion	Nos	1		118-E-0005 A/B	3,31,442.69	3,31,442.69						-
3.2.3.1.2.2.39	1 St Stage Feed / 1st Stage Bottom Exchanger-Raft Completion	Nos	1		118-E-0001 A/B	4,97,164.03	4,97,164.03						-
3.2.3.1.2.2.40	1 St Stage Feed / 1st Stage Bottom Exchanger-Pedestal Completion	Nos	1		118-E-0001 A/B	3,31,442.69	3,31,442.69						-
3.2.3.1.2.2.41	Stripper Water Cooler-Raft Completion	Nos	1		118-E-0004	4,97,164.03	4,97,164.03						-
3.2.3.1.2.2.42	Stripper Water Cooler-Pedestal Completion	Nos	1		118-E-0004	3,31,442.69	3,31,442.69						-
<b>3.2.3.1.2.3</b>	<b>PUMPS</b>					<b>4,11,35,962.56</b>							
3.2.3.1.2.3.1	Sour water transfer pumps	Nos	2		118-P-0001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.2	Stripper feed pumps	Nos	2		118-P-0002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.3	Stripper water pumps	Nos	2		118-P-0003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.4	1st Stage pump around pumps	Nos	2		118-P-0004A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.5	2nd Stage pump around pumps	Nos	2		118-P-0006A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.6	Closed Blow Down pumps	Nos	2		118-P-0007A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.7	Sour water transfer pumps	Nos	2		119-P-0001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.8	Stripper feed pumps	Nos	2		119-P-0002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.9	Stripper water pumps	Nos	2		119-P-0003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.10	pump around pumps	Nos	2		119-P-0004A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.11	Sour water blow down pumps	Nos	2		119-P-0005A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.12	Lean Amine export- I pumps	Nos	2		120-P-0001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.13	Lean Amine export- II pumps	Nos	2		120-P-0002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.14	Amine sump pumps	Nos	2		120-P-0003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.15	Acid flare KOD pumps	Nos	2		120-P-0004A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.16	Rich Amine pumps	Nos	2		120-P-1001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.17	Amine Regenerator Reflux pumps	Nos	2		120-P-1002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.18	Lean Amine transfer pumps	Nos	2		120-P-1003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.19	Rich Amine pumps	Nos	2		120-P-2001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.20	Amine Regenerator Reflux pumps	Nos	2		120-P-2002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.21	Lean Amine transfer pumps	Nos	2		120-P-2003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.22	Sulphur storage pumps	Nos	2		121-P-0001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.23	Rich MDEA Circulation Pumps	Nos	2		121-P-0201A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.24	Lean MDEA Circulation Pumps	Nos	2		121-P-0202A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.25	Lean MDEA Feed Pumps	Nos	3		121-P-0203A/B/C	13,86,605.48	4,62,201.83						-
3.2.3.1.2.3.26	Regenerator Reflux Pumps	Nos	2		121-P-0204A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.27	MDEA Sump pumps	Nos	2		121-P-0205A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.28	HP BFW Pumps	Nos	3		121-P-0301A/B/C	13,86,605.48	4,62,201.83						-
3.2.3.1.2.3.29	LP BFW Pumps	Nos	3		121-P-0302A/B/C	13,86,605.48	4,62,201.83						-
3.2.3.1.2.3.30	Acid Water Pumps	Nos	2		121-P-1001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.31	Acid Water Pumps	Nos	2		121-P-1002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.32	Acid Water Pumps	Nos	2		121-P-1003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.33	Sulphur transfer pumps	Nos	2		121-P-1004A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.34	Incinerator Air Preheater Condensate pump	Nos	2		121-P-1005A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.35	Quench Water Pumps	Nos	2		121-P-1101A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.36	Rich MDEA Transfer Pumps	Nos	2		121-P-1201A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.37	Acid Water Pumps	Nos	2		121-P-2001A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.38	Acid Water Pumps	Nos	2		121-P-2002A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.39	Acid Water Pumps	Nos	2		121-P-2003A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.40	Sulphur transfer pumps	Nos	2		121-P-2004A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.41	Incinerator Air Preheater Condensate pump	Nos	2		121-P-2005A/B	9,24,403.65	4,62,201.83						-
3.2.3.1.2.3.42	Quench Water Pumps	Nos	2		121-P-2101A/B	9,24,403.65	4,62,201.83						-
3.2													



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

ABSTRACT SUMMARY

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cummulative Bill	
								INR	INR	Qty	Amount	Qty	Amount
3.2.3.1.2.4.13	Aru Acid Gas Ko Drum (Train-2)-Raft Completion	Nos	1		121-V-2001	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.14	Aru Acid Gas Ko Drum (Train-2)-Pedestal Completion	Nos	1		121-V-2001	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.15	H2S Rich Sour Gas Ko Drum (Train-2)-Raft Completion	Nos	1		121-V-2002	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.16	H2S Rich Sour Gas Ko Drum (Train-2)-Pedestal Completion	Nos	1		121-V-2002	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.17	HP Condensate Drum-Raft Completion	Nos	1		121-V-0301	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.18	HP Condensate Drum-Pedestal Completion	Nos	1		121-V-0301	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.19	HP Blowdown Collector (Train-2)-Raft Completion	Nos	1		121-V-2301	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.20	HP Blowdown Collector (Train-2)-Pedestal Completion	Nos	1		121-V-2301	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.21	ATM Blow Down Collector (Train-2)-Raft Completion	Nos	1		121-V-2302	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.22	ATM Blow Down Collector (Train-2)-Pedestal Completion	Nos	1		121-V-2302	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.23	HP Blowdown Collector (Train-1)-Raft Completion	Nos	1		121-V-1301	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.24	HP Blowdown Collector (Train-1)-Pedestal Completion	Nos	1		121-V-1301	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.25	ATM Blowdown Collector (Train-1)-Raft Completion	Nos	1		121-V-1302	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.26	ATM Blowdown Collector (Train-1)-Pedestal Completion	Nos	1		121-V-1302	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.27	Skimmed Oil Drums -Raft Completion	Nos	1		118-V-0004A	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.28	Skimmed Oil Drums -Pedestal Completion	Nos	1		118-V-0004A	3,94,823.83	3,94,823.83						
3.2.3.1.2.4.29	Skimmed Oil Drums -Raft Completion	Nos	1		118-V-0004B	5,92,235.75	5,92,235.75						
3.2.3.1.2.4.30	Skimmed Oil Drums -Pedestal Completion	Nos	1		118-V-0004B	3,94,823.83	3,94,823.83						
<b>3.2.3.1.2.5</b>	<b>BLOWERS</b>					<b>45,02,823.36</b>							
3.2.3.1.2.5.1	Main Blowers - Train 1	Nos	2		121-K-1001A/B	11,25,705.84	5,62,852.92						
3.2.3.1.2.5.2	Incinerator Blowers - Train 1	Nos	2		121-K-1002A/B	11,25,705.84	5,62,852.92						
3.2.3.1.2.5.3	Main Blowers - Train 2	Nos	2		121-K-2001A/B	11,25,705.84	5,62,852.92						
3.2.3.1.2.5.4	Incinerator Blowers - Train 2	Nos	2		121-K-2002A/B	11,25,705.84	5,62,852.92						
<b>3.2.3.1.2.6</b>	<b>FILTERS</b>					<b>7,63,190.40</b>							
3.2.3.1.2.6.1	Lean Amine Cartridge Filter-Raft Completion	Nos	2		120-G-1002A/B	36,633.14	18,316.57						
3.2.3.1.2.6.2	Lean Amine Cartridge Filter-Pedestal Completion	Nos	2		120-G-1002A/B	24,422.09	12,211.05						
3.2.3.1.2.6.3	Carbon Bed Filter-Raft Completion	Nos	2		120-G-1003A/B	36,633.14	18,316.57						
3.2.3.1.2.6.4	Carbon Bed Filter-Pedestal Completion	Nos	2		120-G-1003A/B	24,422.09	12,211.05						
3.2.3.1.2.6.5	Polishing Filters-Raft Completion	Nos	2		120-G-1004A/B	36,633.14	18,316.57						
3.2.3.1.2.6.6	Polishing Filters-Pedestal Completion	Nos	2		120-G-1004A/B	24,422.09	12,211.05						
3.2.3.1.2.6.7	Lean Amine Cartridge Filter-Raft Completion	Nos	2		120-G-2002A/B	36,633.14	18,316.57						
3.2.3.1.2.6.8	Lean Amine Cartridge Filter-Pedestal Completion	Nos	2		120-G-2002A/B	24,422.09	12,211.05						
3.2.3.1.2.6.9	Carbon Bed Filter-Raft Completion	Nos	2		120-G-2003A/B	36,633.14	18,316.57						
3.2.3.1.2.6.10	Carbon Bed Filter-Pedestal Completion	Nos	2		120-G-2003A/B	24,422.09	12,211.05						
3.2.3.1.2.6.11	Polishing Filters-Raft Completion	Nos	2		120-G-2004A/B	36,633.14	18,316.57						
3.2.3.1.2.6.12	Polishing Filters-Pedestal Completion	Nos	2		120-G-2004A/B	24,422.09	12,211.05						
3.2.3.1.2.6.13	Quench Water Filters-Raft Completion	Nos	2		121-G-2101A/B	36,633.14	18,316.57						
3.2.3.1.2.6.14	Quench Water Filters-Pedestal Completion	Nos	2		121-G-2101A/B	24,422.09	12,211.05						
3.2.3.1.2.6.15	Rich MDEA Filters-Raft Completion	Nos	2		121-G-2201A/B	36,633.14	18,316.57						
3.2.3.1.2.6.16	Rich MDEA Filters-Pedestal Completion	Nos	2		121-G-2201A/B	24,422.09	12,211.05						
3.2.3.1.2.6.17	Quench Water Filters-Raft Completion	Nos	2		121-G-1101A/B	36,633.14	18,316.57						
3.2.3.1.2.6.18	Quench Water Filters-Pedestal Completion	Nos	2		121-G-1101A/B	24,422.09	12,211.05						
3.2.3.1.2.6.19	Rich MDEA Filters-Raft Completion	Nos	2		121-G-1201A/B	36,633.14	18,316.57						
3.2.3.1.2.6.20	Rich MDEA Filters-Pedestal Completion	Nos	2		121-G-1201A/B	24,422.09	12,211.05						
3.2.3.1.2.6.21	Lean MDEA Polishing Filters-Raft Completion	Nos	2		121-G-0203A/B	36,633.14	18,316.57						
3.2.3.1.2.6.22	Lean MDEA Polishing Filters-Pedestal Completion	Nos	2		121-G-0203A/B	24,422.09	12,211.05						
3.2.3.1.2.6.23	Lean MDEA Carbon Filters-Raft Completion	Nos	1		121-G-0202	18,316.57	18,316.57						
3.2.3.1.2.6.24	Lean MDEA Carbon Filters-Pedestal Completion	Nos	1		121-G-0202	12,211.05	12,211.05						
3.2.3.1.2.6.25	Lean MDEA Particle Filters-Raft Completion	Nos	2		121-G-0201A/B	36,633.14	18,316.57						
3.2.3.1.2.6.26	Lean MDEA Particle Filters-Pedestal Completion	Nos	2		121-G-0201A/B	24,422.09	12,211.05						
<b>3.2.3.1.2.7</b>	<b>TANKS</b>	Nos.				<b>2,44,22,092.80</b>							
3.2.3.1.2.7.1	Stripper Feed Tanks (Fixed Dome Roof) - Raft Completion	Nos	1		118-T-0001A	31,23,070.37	31,23,070.37						
3.2.3.1.2.7.2	Stripper Feed Tanks (Fixed Dome Roof) - Pedestal Completion	Nos	1		118-T-0001A	20,82,046.92	20,82,046.92						
3.2.3.1.2.7.3	Stripper Feed Tanks (Fixed Dome Roof) - Raft Completion	Nos	1										



**ABSTRACT SUMMARY**

Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cummulative Bill	
								INR	INR	Qty	Amount	Qty	Amount
3.2.3.1.2.8.2	Incinerator Package - Stack	Nos	1		121-LS-2001	2,40,40,497.60	2,40,40,497.60						
3.2.3.1.2.9	<b>TS &amp; PIPE RACK</b>												
3.2.3.1.2.9.a	<b>TS</b>	Nos.	220			<b>4,19,75,472.00</b>							
3.2.3.1.2.9.a.1	TS-01 - Raft Completion	Nos	11			15,63,891.16	1,42,171.92						
3.2.3.1.2.9.a.2	TS-01 - Pedestal Completion	Nos	11			10,42,594.11	94,781.28						
3.2.3.1.2.9.a.3	TS-02 - Raft Completion	Nos	11			23,88,656.56	2,17,150.60						
3.2.3.1.2.9.a.4	TS-02 - Pedestal Completion	Nos	11			15,92,437.71	1,44,767.06						
3.2.3.1.2.9.a.5	TS-03 - Raft Completion	Nos	11			23,88,656.56	2,17,150.60						
3.2.3.1.2.9.a.6	TS-03 - Pedestal Completion	Nos	11			15,92,437.71	1,44,767.06						
3.2.3.1.2.9.a.7	TS-04 - Raft Completion	Nos	27			37,54,860.68	1,39,068.91						
3.2.3.1.2.9.a.8	TS-04 - Pedestal Completion	Nos	27			25,03,240.45	92,712.61						
3.2.3.1.2.9.a.9	TS-05 - Raft Completion	Nos	27			37,54,860.68	1,39,068.91						
3.2.3.1.2.9.a.10	TS-05 - Pedestal Completion	Nos	27			25,03,240.45	92,712.61						
3.2.3.1.2.9.a.11	TS-06 - Raft Completion	Nos	6			12,20,139.48	2,03,356.58						
3.2.3.1.2.9.a.12	TS-06 - Pedestal Completion	Nos	6			8,13,426.32	1,35,571.05						
3.2.3.1.2.9.a.13	TS-07 - Raft Completion	Nos	8			25,86,343.60	3,23,292.95						
3.2.3.1.2.9.a.14	TS-07 - Pedestal Completion	Nos	8			17,24,229.07	2,15,528.63						
3.2.3.1.2.9.a.15	TS-08 - Raft Completion	Nos	2			5,85,849.37	2,92,924.68						
3.2.3.1.2.9.a.16	TS-08 - Pedestal Completion	Nos	2			3,90,566.24	1,95,283.12						
3.2.3.1.2.9.a.17	TS-09 - Raft Completion	Nos	2			9,76,415.61	4,88,207.81						
3.2.3.1.2.9.a.18	TS-09 - Pedestal Completion	Nos	2			6,50,943.74	3,25,471.87						
3.2.3.1.2.9.a.19	TS-10 - Raft Completion	Nos	2			13,25,691.00	6,62,845.50						
3.2.3.1.2.9.a.20	TS-10 - Pedestal Completion	Nos	2			8,83,794.00	4,41,897.00						
3.2.3.1.2.9.a.21	TS-11 - Raft Completion	Nos	2			13,25,691.00	6,62,845.50						
3.2.3.1.2.9.a.22	TS-11 - Pedestal Completion	Nos	2			8,83,794.00	4,41,897.00						
3.2.3.1.2.9.a.23	TS-12 - Raft Completion	Nos	1			33,14,227.50	33,14,227.50						
3.2.3.1.2.9.a.24	TS-12 - Pedestal Completion	Nos	1			22,09,485.00	22,09,485.00						
3.2.3.1.2.9.b	<b>PIPE RACK</b>	Nos.	280			<b>6,48,71,184.00</b>						<b>1,72,24,639.46</b>	<b>1,72,24,639.46</b>
3.2.3.1.2.9.b.1	PR-01 - Raft Completion	Nos	56			1,43,78,328.94	2,56,755.87			24	61,62,140.97	24	61,62,140.97
3.2.3.1.2.9.b.2	PR-01 - Pedestal Completion	Nos	56			95,85,552.63	1,71,170.58			10	17,11,705.83	10	17,11,705.83
3.2.3.1.2.9.b.3	PR-02 - Raft Completion	Nos	6			42,27,070.66	7,04,511.78			6	42,27,070.66	6	42,27,070.66
3.2.3.1.2.9.b.4	PR-02 - Pedestal Completion	Nos	6			28,18,047.10	4,69,674.52			6	28,18,047.10	6	28,18,047.10
3.2.3.1.2.9.b.5	PR-03 - Raft Completion	Nos	5			23,05,674.90	4,61,134.98			5	23,05,674.90	5	23,05,674.90
3.2.3.1.2.9.b.6	PR-03 - Pedestal Completion	Nos	5			15,37,116.60	3,07,423.32						
3.2.3.1.2.9.b.7	PR-04 - Raft Completion	Nos	12			30,74,233.20	2,56,186.10						
3.2.3.1.2.9.b.8	PR-04 - Pedestal Completion	Nos	12			20,49,488.80	1,70,790.73						
3.2.3.1.2.9.b.9	PR-05 - Raft Completion	Nos	13			23,21,396.68	1,78,568.98						
3.2.3.1.2.9.b.10	PR-05 - Pedestal Completion	Nos	13			15,47,597.79	1,19,045.98						
3.2.3.1.2.9.b.11	PR-06 - Raft Completion	Nos	22			55,71,352.03	2,53,243.27						
3.2.3.1.2.9.b.12	PR-06 - Pedestal Completion	Nos	22			37,14,234.69	1,68,828.85						
3.2.3.1.2.9.b.13	PR-07 - Raft Completion	Nos	8			23,21,396.68	2,90,174.58						
3.2.3.1.2.9.b.14	PR-07 - Pedestal Completion	Nos	8			15,47,597.79	1,93,449.72						
3.2.3.1.2.9.b.15	PR-08 - Raft Completion	Nos	2			7,68,558.30	3,84,279.15						
3.2.3.1.2.9.b.16	PR-08 - Pedestal Completion	Nos	2			5,12,372.20	2,56,186.10						
3.2.3.1.2.9.b.17	PR-09 - Raft Completion	Nos	10			25,61,861.00	2,56,186.10						
3.2.3.1.2.9.b.18	PR-09 - Pedestal Completion	Nos	10			17,07,907.34	1,70,790.73						
3.2.3.1.2.9.b.19	PR-10 - Raft Completion	Nos	6			13,92,838.01	2,32,139.67						
3.2.3.1.2.9.b.20	PR-10 - Pedestal Completion	Nos	6			9,28,558.67	1,54,759.78						
3.2.3.1.2.10	<b>UG PIT RCC WORKS</b>					<b>4,57,91,424.00</b>							
3.2.3.1.2.10.1	Valve Pits	Nos.	12			13,73,742.72	1,14,478.56						
3.2.3.1.2.10.2	Neutralization Pits	Nos.	10			9,15,828.48	91,582.85						
3.2.3.1.2.10.3	Rainwater Harvesting Pits	Nos.	2			1,83,165.70	91,582.85						
3.2.3.1.2.10.4	Sand Traps	Nos.	3			2,74,748.54	91,582.85						
3.2.3.1.2.10.5	Cable Trench	RM	500			32,05,399.68	6,410.80						
3.2.3.1.2.10.6	Fire Water Trench with cover and Sand filling	RM	525			45,79,142.40	8,722.18						
3.2.3.1.2.10.7	Liquid Sulphur Yard Loading Bays	Nos.	4			22,89,571.20	5,72,392.80						
3.2													



**इंजिनियर्स इंडिया लिमिटेड**  **ENGINEERS  
INDIA LIMITED**  
(A Govt. of India Undertaking)

PROJECT: EPCC-06 Package - Sulphur Recovery Block(SRB) for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRRL)

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineering and Infrastructures Limited (MEIL)**

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

## **ABSTRACT SUMMARY**

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cumulative Bill	
								INR	INR	Qty	Amount	Qty	Amount
3.2.3.1.2.12.7	In-Situ RCC Works PR-05	Nos.	15			12,67,277.66	84,485.18						
3.2.3.1.2.12.9	In-Situ RCC Works PR-06	Nos.	24			15,48,894.92	64,537.29						
3.2.3.1.2.12.12	In-Situ RCC Works PR-07	Nos.	7			6,57,106.93	93,872.42						
3.2.3.1.2.12.13	In-Situ RCC Works PR-08	Nos.	5			5,16,298.31	1,03,259.66						
3.2.3.1.2.12.14	In-Situ RCC Works PR-09	Nos.	10			7,04,043.14	70,404.31						
3.2.3.1.2.12.16	In-Situ RCC Works PR-10	Nos.	3			7,50,979.35	2,50,326.45						
3.2.3.1.2.12.17	RCC Superstructure Liquid Sulphur Yard Loading Bays	Nos.	1			28,16,172.58	28,16,172.58						
3.2.3.1.2.12.18	RCC Superstructure Pipe Bridge	Nos.	1			37,54,896.77	37,54,896.77						
3.2.3.1.2.12.19	RCC Superstructure Miscellaneous Foundations	Nos.	14			35,67,151.93	2,54,796.57						
3.2.3.1.2.12.20	RCC Superstructure Sulphur Yard	Nos.	1			42,24,258.86	42,24,258.86						
3.2.3.1.2.12.21	Deck Slab	Nos.	1			41,30,386.44	41,30,386.44						
3.2.3.1.2.12.22	Painting of RCC Precast Structures												
3.2.3.1.2.12.22.a	Column	Nos.	242			51,86,451.16	21,431.62						
3.2.3.1.2.12.22.b	Beam	Nos.	274			27,92,704.47	10,192.35						
<b>3.2.3.1.2.13</b>	<b>PRECAST WORKS</b>					<b>8,92,93,276.80</b>						<b>63,44,579.87</b>	<b>63,44,579.87</b>
3.2.3.1.2.13.1	Pre Casting PR-01 - Column - Casting	Nos	82			1,56,80,419.88	1,91,224.63			23	43,98,166.55	23	43,98,166.55
3.2.3.1.2.13.2	Pre Casting PR-01 - Beam - Casting	Nos	150			52,83,838.54	35,225.59			31	10,91,993.30	31	10,91,993.30
3.2.3.1.2.13.3	Pre Casting PR-01 - Column - Erection	Nos	82			1,56,80,419.88	1,91,224.63						
3.2.3.1.2.13.4	Pre Casting PR-01 - Beam - Erection	Nos	150			52,83,838.54	35,225.59						
3.2.3.1.2.13.5	Pre Casting PR-02 - Column - Casting	Nos	16			16,58,392.03	1,03,649.50						
3.2.3.1.2.13.6	Pre Casting PR-02 - Beam - Casting	Nos	12			3,01,933.63	25,161.14						
3.2.3.1.2.13.7	Pre Casting PR-02 - Column - Erection	Nos	16			16,58,392.03	1,03,649.50						
3.2.3.1.2.13.8	Pre Casting PR-02 - Beam - Erection	Nos	12			3,01,933.63	25,161.14						
3.2.3.1.2.13.9	Pre Casting PR-03 - Column - Casting	Nos	12			14,81,372.66	1,23,447.72						
3.2.3.1.2.13.10	Pre Casting PR-03 - Beam - Casting	Nos	8			2,81,804.72	35,225.59						
3.2.3.1.2.13.11	Pre Casting PR-03 - Column - Erection	Nos	12			14,81,372.66	1,23,447.72						
3.2.3.1.2.13.12	Pre Casting PR-03 - Beam - Erection	Nos	8			2,81,804.72	35,225.59						
3.2.3.1.2.13.13	Pre Casting PR-04 - Column - Casting	Nos	12			13,06,682.49	1,08,890.21						
3.2.3.1.2.13.14	Pre Casting PR-04 - Beam - Casting	Nos	8			2,81,804.72	35,225.59						
3.2.3.1.2.13.15	Pre Casting PR-04 - Column - Casting	Nos	12			13,06,682.49	1,08,890.21						
3.2.3.1.2.13.16	Pre Casting PR-04 - Beam - Casting	Nos	8			2,81,804.72	35,225.59						
3.2.3.1.2.13.17	Pre Casting PR-05 - Column - Casting	Nos	32			27,95,042.75	87,345.09						
3.2.3.1.2.13.18	Pre Casting PR-05 - Beam - Casting	Nos	24			6,64,253.99	27,677.25						
3.2.3.1.2.13.19	Pre Casting PR-05 - Column - Erection	Nos	32			27,95,042.75	87,345.09						
3.2.3.1.2.13.20	Pre Casting PR-05 - Beam - Erection	Nos	24			6,64,253.99	27,677.25						
3.2.3.1.2.13.21	Pre Casting PR-06 - Column - Casting	Nos	46			47,85,662.42	1,04,036.14						
3.2.3.1.2.13.22	Pre Casting PR-06 - Beam - Casting	Nos	42			10,56,767.71	25,161.14						
3.2.3.1.2.13.23	Pre Casting PR-06 - Column - Erection	Nos	46			47,85,662.42	1,04,036.14						
3.2.3.1.2.13.24	Pre Casting PR-06 - Beam - Erection	Nos	42			10,56,767.71	25,161.14						
3.2.3.1.2.13.25	Pre Casting PR-07 - Column - Casting	Nos	14			17,28,268.10	1,23,447.72						
3.2.3.1.2.13.26	Pre Casting PR-07 - Beam - Casting	Nos	10			2,51,611.36	25,161.14						
3.2.3.1.2.13.27	Pre Casting PR-07 - Column - Erection	Nos	14			17,28,268.10	1,23,447.72						
3.2.3.1.2.13.28	Pre Casting PR-07 - Beam - Erection	Nos	10			2,51,611.36	25,161.14						
3.2.3.1.2.13.29	Pre Casting PR-08 - Column - Casting	Nos	20			21,77,804.14	1,08,890.21						
3.2.3.1.2.13.30	Pre Casting PR-08 - Beam - Casting	Nos	16			5,63,609.44	35,225.59						
3.2.3.1.2.13.31	Pre Casting PR-08 - Column - Erection	Nos	20			21,77,804.14	1,08,890.21						
3.2.3.1.2.13.32	Pre Casting PR-08 - Beam - Erection	Nos	16			5,63,609.44	35,225.59						
3.2.3.1.2.13.33	Pre Casting PR-09 - Column - Casting	Nos	2			2,17,780.41	1,08,890.21						
3.2.3.1.2.13.34	Pre Casting PR-09 - Beam - Casting	Nos	2			70,451.18	35,225.59						
3.2.3.1.2.13.35	Pre Casting PR-09 - Column - Erection	Nos	2			2,17,780.41	1,08,890.21						
3.2.3.1.2.13.36	Pre Casting PR-09 - Beam - Erection	Nos	2			70,451.18	35,225.59						
3.2.3.1.2.13.37	Pre Casting PR-10 - Column - Casting	Nos	6			3,06,462.64	51,077.11						
3.2.3.1.2.13.38	Pre Casting PR-10 - Beam - Casting	Nos	2			77,640.08	38,820.04						
3.2.3.1.2.13.39	Pre Casting PR-10 - Column - Erection	Nos	6			3,06,462.64	51,077.11						
3.2.3.1.2.13.40	Pre Casting PR-10 - Beam - Erection	Nos	2			77,640.08	38,820.04						
3.2.3.1.2.13.41	UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Casting	Nos	357			36,75,035.51	10,294.22			83	8,54,420.02	83	8,54,420.02
3.2.3.1.2.13.42	UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Erection with cover slab	Nos	357			36,75,035.51	10,294.22						
<b>3.2.3.1.2.14</b>	<b>SUBSTATION-24 BUILDING</b>					<b>9,61,61,990.40</b>					<b>1,73,09,158.27</b>		<b>1,73,09,158.27</b>
3.2.3.1.2.14.1	RCC: Foundation & Column upto HPP level	Nos	68			1,73,09,158.27	2,54,546.45			68	1,73,09,158.27	68	1,73,09,158.27
3.2.3.1.2.14.2	RCC: Grade slab ground floor	Nos	1			86,54,579.14	86,54,579.14						
3.2.3.1.2.14.3	RCC- Columns Ground floor	Nos	76			28,84,859.71	37,958.68						
3.2.3.1.2.14.4	RCC; Slab First floor	Nos	1			96,16,199.04	96,16,199.04						
3.2.3.1.2.14.5	Transformer Bay Foundation with gates	Nos	11			19,23,239.81	1,74,839.98						
3.2.3.1.2.14.6	RCC: Columns First floor	Nos	76			38,46,479.62	50,611.57						
3.2.3.1.2.14.7	RCC: Terrace	LS	1			86,54,579.14	86,54,579.14						
3.2.3.1.2.14.8	Brick Masonry work for each floor	LS	2			1,15,39,438.85	57,69,719.42						
3.2.3.1.2.14.9	Plastering work for each floor	LS	2			57,69,719.42	28,84,859.71						

floor

R. Sridhar  
Senior Manager  
SAP Solutions  
Tata Consultancy Services  
India Limited

पर्याप्त विवरण  
संगत नियमों के सुनियन  
शारीरिक अवधि

En. J. Baruah  
General Manager  
RRP-Barmer  
EIL

Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	Qty		TAG NO	Amount as BBU	Unit Rate	Upto Previous Bill		This Bill		Cummulative Bill	
								Qty	Amount	Qty	Amount	Qty	Amount
3.2.3.1.2.14.10	All types of doors/gates/shutters & windows/ventilations/partitions	LS	1			28,84,859.71	28,84,859.71						-
3.2.3.1.2.14.11	Plumbing and Sanitary work	LS	1			48,08,099.52	48,08,099.52						-
3.2.3.1.2.14.12	Painting work for each floor	LS	2			28,84,859.71	14,42,429.86						-
3.2.3.1.2.14.13	Floor Finishing Works for each floor	LS	2			36,06,074.64	18,03,037.32						-
3.2.3.1.2.14.14	False Flooring	LS	1			19,23,239.81	19,23,239.81						-
3.2.3.1.2.14.15	False Ceiling	LS	1			19,23,239.81	19,23,239.81						-
3.2.3.1.2.14.16	Cable Trenches	LS	1			48,08,099.52	48,08,099.52						-
3.2.3.1.2.14.17	Cable Trench Cover	LS	1			9,61,619.90	9,61,619.90						-
3.2.3.1.2.14.18	Plinth Protection , Surrounding Drain, Transformer Gravel Etc.	LS	1			9,61,619.90	9,61,619.90						-
3.2.3.1.2.14.19	Roof water proofing works as per specification, Transformer gravel filling Etc.	LS	1			9,61,619.90	9,61,619.90						-
3.2.3.1.2.14.20	Other Misc. items. i.e, E&I, Furniture etc.	LS	1			2,40,404.98	2,40,404.98						-
<b>3.2.3.1.2.15</b>	<b>SRR-05 BUILDING</b>					<b>6,48,71,184.00</b>							
3.2.3.1.2.15.1	RCC: Foundation & Column upto HPP level	Nos	21			2,33,53,626.24	11,12,077.44						-
3.2.3.1.2.15.2	RCC: Super Structure (Grade slab and Walls upto Roof slab)	Nos	1			90,81,965.76	90,81,965.76						-
3.2.3.1.2.15.3	RCC: Roof slab	LS	1			51,89,694.72	51,89,694.72						-
3.2.3.1.2.15.4	Plastering work - Inside and Outside	LS	2			58,38,406.56	29,19,203.28						-
3.2.3.1.2.15.5	All types of doors/gates/shutters & windows/ventilations/partitions	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.6	Plumbing and Sanitary work	LS	1			32,43,559.20	32,43,559.20						-
3.2.3.1.2.15.7	Painting work	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.8	Floor Finishing Works	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.9	False Flooring	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.10	False Ceiling	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.11	Cable Trenches	LS	1			32,43,559.20	32,43,559.20						-
3.2.3.1.2.15.12	Cable Trench Cover	LS	1			6,48,711.84	6,48,711.84						-
3.2.3.1.2.15.13	Plinth Protection , Surrounding Drain, Transformer Gravel filling Etc.	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.14	Roof water proofing works as per specification	LS	1			19,46,135.52	19,46,135.52						-
3.2.3.1.2.15.15	Other Misc. items. i.e, E&I, Furniture etc.	LS	1			6,48,711.84	6,48,711.84						-
<b>3.2.3.1.2.16</b>	<b>FIRE PROOFING OF STEEL STRUCTURE &amp; EQUIPMENTS</b>					<b>7,47,92,659.20</b>							
3.2.3.1.2.16.1	Pipe Rack	LS	1			2,62,15,983.64	2,62,15,983.64						-
3.2.3.1.2.16.2	Tech Structure	LS	1			3,46,97,625.40	3,46,97,625.40						-
3.2.3.1.2.16.3	Equipment	LS	1			1,38,79,050.16	1,38,79,050.16						-
<b>3.2.3.1.2.17</b>	<b>Miscellaneous (Foundation for Operating Plateform &amp; Peripheral Draining )</b>	LS	1			<b>38,15,952.00</b>							
<b>3.2.3.1.3</b>	<b>On issue of Mechanical completion certificate .</b>	LS	1			<b>4,76,99,400.00</b>							
<b>3.2.3.1.4</b>	<b>On issue of Commissioning Certificate</b>	LS	1			<b>2,86,19,640.00</b>							
<b>3.2.3.1.5</b>	<b>On Issue of Performance Test Certificate</b>	LS	1			<b>95,39,880.00</b>							
<b>3.2.3.1.5</b>	<b>On completion of all jobs</b>	LS	1			<b>95,39,880.00</b>							
<b>NOTES:</b>													
1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.													
2. This Billing Break up is for construction portion only.													
3. This billing break up is for releasing of payment only.													
4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure													
5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices													
6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.													
7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.													



श्रीमत  
विराज पवार  
इंजीनियर  
टेक्निकल विभाग  
HRRL/Rajasthan

P. Prakash  
Senior Manager  
Engineering Department  
Engineers India Limited

ए.जे. बहवा  
सहायक महाप्रबंधक  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.पी बाईरे  
RRP-Barmer

N.J. Baruah  
Asst. General Manager  
Engineers India Limited  
RRP-Barmer



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

### Measurement Sheet - Summary

S No	BBU No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Location	Drawing Number	Claimed Details RA-3		Remarks
					Qty	Month	
1	3.2.3.1.2.9.b.1	PR-01 - Raft Completion	PR-01	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404 B224-000-ECV-DLA-0407 B224-000-ECV-DLA-0411 B224-000-ECV-DLA-0412 B224-000-ECV-DLA-0419 B224-000-ECV-DLA-0423	24	July'22	
	3.2.3.1.2.9.b.2	PR-01 - Pedestal Completion	PR-01	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404 B224-000-ECV-DLA-0407 B224-000-ECV-DLA-0411 B224-000-ECV-DLA-0412 B224-000-ECV-DLA-0419 B224-000-ECV-DLA-0423	10	July'22	
2	3.2.3.1.2.9.b.3	PR-02 - Raft Completion	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	6	July'22	
	3.2.3.1.2.9.b.4	PR-02 - Pedestal Completion	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	6	July'22	
3	3.2.3.1.2.9.b.5	PR-03 - Raft Completion	PR-03	B224-000-ECV-DLA-0435	5	July'22	
4	3.2.3.1.2.14.1	RCC: Foundation & Column upto HPP level	SS-24	B224-000-ECV-DLA-0206	68	July'22	
5	3.2.3.1.2.13.1	Pre Casting PR-01 - Column - Casting	PR-01	B224-000-ECV-DSE-0401 B224-000-ECV-DSE-0402 B224-000-ECV-DSE-0403 B224-000-ECV-DSE-0408 B224-000-ECV-DSE-0409 B224-000-ECV-DSE-0410	23	July'22	
6	3.2.3.1.2.13.2	Pre Casting PR-01 - Beam - Casting	PR-01	B224-000-ECV-DSE-0401 B224-000-ECV-DSE-0402 B224-000-ECV-DSE-0403 B224-000-ECV-DSE-0408 B224-000-ECV-DSE-0409 B224-000-ECV-DSE-0410	31	July'22	
7	3.2.3.1.2.13.41	UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Casting		B224-000-ECV-DST-0102	83	July'22	

पी. श्रीधर  
वरिष्ठ प्रबन्धक  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.सी. कार्पोरेशन

P. Dridhar  
Senior Manager  
Engineering India Limited  
R.R.S.C. Corporation

एन.जे. बहव  
महाप्रबन्धक  
इंजीनियरिंग इंडिया लिमिटेड  
RRP-Barmer

N.J. Baruah  
Asst. General Manager  
Engineering India Limited  
RRP-Barmer



**PROJECT: EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**PIPE RACK - Raft Completion - Measurement Sheet - 3.2.3.1.2.9.b**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
1	3.2.3.1.2.9.b.3	26-05-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC1	P3/02-02a	Nos	1	MEIL/SRB/SCC/PC/-040	RA-03C
2	3.2.3.1.2.9.b.3	26-05-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC1	Q3/02-02a	Nos	1	MEIL/SRB/SCC/PC/-040	RA-03C
3	3.2.3.1.2.9.b.5	28-05-2022	PR-03	B224-000-ECV-DLA-0435	0	PC1	P/14-14a	Nos	1	MEIL/SRB/SCC/PC/-041	RA-03C
4	3.2.3.1.2.9.b.5	28-05-2022	PR-03	B224-000-ECV-DLA-0435	0	PC1	Q/14-14a	Nos	1	MEIL/SRB/SCC/PC/-041	RA-03C
5	3.2.3.1.2.9.b.1	30-05-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC3	K/30	Nos	1	MEIL/SRB/SCC/PC/-043	RA-03C
6	3.2.3.1.2.9.b.3	30-05-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC2	O3-P/02-02a	Nos	1	MEIL/SRB/SCC/PC/-042	RA-03C
7	3.2.3.1.2.9.b.1	31-05-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	K/32	Nos	1	MEIL/SRB/SCC/PC/-045	RA-03C
8	3.2.3.1.2.9.b.3	31-05-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC1	N3/02-02a	Nos	1	MEIL/SRB/SCC/PC/-044	RA-03C
9	3.2.3.1.2.9.b.1	02-06-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	J/32	Nos	1	MEIL/SRB/SCC/PC/-048	RA-03C
10	3.2.3.1.2.9.b.1	02-06-2022	PR-01A	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404	1	PC3	J/33	Nos	1	MEIL/SRB/SCC/PC/-047	RA-03C
11	3.2.3.1.2.9.b.3	02-06-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC1	M3/02-02a	Nos	1	MEIL/SRB/SCC/PC/-046	RA-03C
12	3.2.3.1.2.9.b.5	02-06-2022	PR-03	B224-000-ECV-DLA-0435	0	PC2	N,O/14-14a	Nos	1	MEIL/SRB/SCC/PC/-049	RA-03C
13	3.2.3.1.2.9.b.1	03-06-2022	PR-01A	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404	1	PC4	K/34	Nos	1	MEIL/SRB/SCC/PC/-050	RA-03C
14	3.2.3.1.2.9.b.1	06-06-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC1	J/31	Nos	1	MEIL/SRB/SCC/PC/-052	RA-03C
15	3.2.3.1.2.9.b.5	06-06-2022	PR-03	B224-000-ECV-DLA-0435	0	PC1	L/14-14a	Nos	1	MEIL/SRB/SCC/PC/-051	RA-03C
16	3.2.3.1.2.9.b.1	07-06-2022	PR-01A	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404	1	PC3	J/34	Nos	1	MEIL/SRB/SCC/PC/-053	RA-03C
17	3.2.3.1.2.9.b.1	08-06-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC1	K/31	Nos	1	MEIL/SRB/SCC/PC/-054	RA-03C
18	3.2.3.1.2.9.b.5	08-06-2022	PR-03	B224-000-ECV-DLA-0435	0	PC1	M/14-14a	Nos	1	MEIL/SRB/SCC/PC/-055	RA-03C
19	3.2.3.1.2.9.b.1	09-06-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC3	K/29	Nos	1	MEIL/SRB/SCC/PC/-057	RA-03C
20	3.2.3.1.2.9.b.3	09-06-2022	PR-02	B224-000-ECV-DLA-0431 B224-000-ECV-DLA-0432	0	PC1	R3/02-02a	Nos	1	MEIL/SRB/SCC/PC/-056	RA-03C



*(Signature)*  
Balkumar (EMI)

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पी. श्रीधर  
वरिष्ठ प्रबंधक  
इंजीनियरिंग इंडिया लिमिटेड  
Engineers India Limited  
Noida - 201301  
9899988888

R. Sridhar  
Senior Manager

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**PIPE RACK - Raft Completion - Measurement Sheet - 3.2.3.1.2.9.b**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
21	3.2.3.1.2.9.b.1	10-06-2022	PR-01A	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404	1	PC3	K/33	Nos	1	MEIL/SRB/SCC/PC/-058	RA-03C
22	3.2.3.1.2.9.b.1	22-06-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC3A	K/28	Nos	1	MEIL/SRB/SCC/PC/-060	RA-03C
23	3.2.3.1.2.9.b.1	16-06-2022	PR-01B	B224-000-ECV-DLA-0407	1	PC3A	K/27	Nos	1	MEIL/SRB/SCC/PC/-059	RA-03C
24	3.2.3.1.2.9.b.1	30-06-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC2	K/36	Nos	1	MEIL/SRB/SCC/PC/-069	RA-03C
25	3.2.3.1.2.9.b.1	01-07-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC2	J/36	Nos	1	MEIL/SRB/SCC/PC/-070	RA-03C
26	3.2.3.1.2.9.b.1	05-07-2022	PR-01E	B224-000-ECV-DLA-0419	1	PC4	J/9-10	Nos	1	MEIL/SRB/SCC/PC/-072	RA-03C
27	3.2.3.1.2.9.b.1	07-07-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	K/37	Nos	1	MEIL/SRB/SCC/PC/-074	RA-03C
28	3.2.3.1.2.9.b.1	11-07-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	J/35	Nos	1	MEIL/SRB/SCC/PC/-075	RA-03C
29	3.2.3.1.2.9.b.1	13-07-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	K/35	Nos	1	MEIL/SRB/SCC/PC/-076	RA-03C
30	3.2.3.1.2.9.b.1	13-07-2022	PR-01A	B224-000-ECV-DLA-0403 B224-000-ECV-DLA-0404	1	PC5	K/35	Nos	1	MEIL/SRB/SCC/PC/-076	RA-03C
31	3.2.3.1.2.9.b.1	20-07-2022	PR-01A	B224-000-ECV-DLA-0403	1	PC1	J/37	Nos	1	MEIL/SRB/SCC/PC/-081	RA-03C
32	3.2.3.1.2.9.b.1	19-07-2022	PR-01F	B224-000-ECV-DLA-0423	1	PC4	J/7-8	Nos	1	MEIL/SRB/SCC/PC/-080	RA-03C
33	3.2.3.1.2.9.b.1	21-07-2022	PR-01F	B224-000-ECV-DLA-0423	1	PC4	J/5-6	Nos	1	MEIL/SRB/SCC/PC/-082	RA-03C
34	3.2.3.1.2.9.b.1	30-07-2022	PR-01C	B224-000-ECV-DLA-0411	1	PC1	K/22	Nos	1	MEIL/SRB/SCC/PC/-086	RA-03C
35	3.2.3.1.2.9.b.1	31-07-2022	PR-01C	B224-000-ECV-DLA-0411	1	PC2	K/24	Nos	1	MEIL/SRB/SCC/PC/-087	RA-03C



*(B. Sridhar EIL)*

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पी. श्रीधर  
वरिष्ठ प्रबंधक  
इंजीनियरिंग इंडिया  
आर.आर.टी. एल.

*(B. Sridhar)*  
B. Sridhar  
Senior Manager  
Megha Engineering & Infra Limited

MEIL

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



**Client : HPCL Rajasthan Refinery Limited. (HRRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**Measurement Sheet- SUBSTATION-24 BUILDING - 3.2.3.1.2.14**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
1	3.2.3.1.2.14.1	01-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	C'/1	Nos	1	MEIL/SRB/SCC/PC/-001	RA-03C ✓
2	3.2.3.1.2.14.1	01-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	D/1	Nos	1	MEIL/SRB/SCC/PC/-001	RA-03C ✓
3	3.2.3.1.2.14.1	05-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B3	Nos	1	MEIL/SRB/SCC/PC/-002	RA-03C ✓
4	3.2.3.1.2.14.1	07-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	B/1	Nos	1	MEIL/SRB/SCC/PC/-003	RA-03C ✓
5	3.2.3.1.2.14.1	07-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	C/1	Nos	1	MEIL/SRB/SCC/PC/-003	RA-03C ✓
6	3.2.3.1.2.14.1	08-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/5	Nos	1	MEIL/SRB/SCC/PC/-005	RA-03C ✓
7	3.2.3.1.2.14.1	08-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/7	Nos	1	MEIL/SRB/SCC/PC/-005	RA-03C ✓
8	3.2.3.1.2.14.1	08-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B4	Nos	1	MEIL/SRB/SCC/PC/-004	RA-03C ✓
9	3.2.3.1.2.14.1	09-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B5	Nos	1	MEIL/SRB/SCC/PC/-006	RA-03C ✓
10	3.2.3.1.2.14.1	10-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B7	Nos	1	MEIL/SRB/SCC/PC/-007	RA-03C ✓
11	3.2.3.1.2.14.1	11-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/6	Nos	1	MEIL/SRB/SCC/PC/-008	RA-03C ✓
12	3.2.3.1.2.14.1	12-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	A/1	Nos	1	MEIL/SRB/SCC/PC/-009	RA-03C ✓
13	3.2.3.1.2.14.1	12-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	A/2	Nos	1	MEIL/SRB/SCC/PC/-010	RA-03C ✓
14	3.2.3.1.2.14.1	12-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC8	D/2,C'/2	Nos	1	MEIL/SRB/SCC/PC/-009	RA-03C ✓



B. Balaji  
EIL श्रीधर  
इंजीनियर  
आरआरएल

R. Sandhar  
Senior Manager  
EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



**Client : HPCL Rajasthan Refinery Limited. (HRRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**Measurement Sheet- SUBSTATION-24 BUILDING - 3.2.3.1.2.14**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
15	3.2.3.1.2.14.1	13-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/3	Nos	1	MEIL/SRB/SCC/PC/-011	RA-03C ✓
16	3.2.3.1.2.14.1	13-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B6	Nos	1	MEIL/SRB/SCC/PC/-011	RA-03C ✓
17	3.2.3.1.2.14.1	14-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B8	Nos	1	MEIL/SRB/SCC/PC/-013	RA-03C ✓
18	3.2.3.1.2.14.1	14-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D3	Nos	1	MEIL/SRB/SCC/PC/-012	RA-03C ✓
19	3.2.3.1.2.14.1	18-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/4	Nos	1	MEIL/SRB/SCC/PC/-015	RA-03C ✓
20	3.2.3.1.2.14.1	18-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC3	A/8	Nos	1	MEIL/SRB/SCC/PC/-015	RA-03C ✓
21	3.2.3.1.2.14.1	18-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D4	Nos	1	MEIL/SRB/SCC/PC/-014	RA-03C ✓
22	3.2.3.1.2.14.1	19-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC3	A/9	Nos	1	MEIL/SRB/SCC/PC/-016	RA-03C ✓
23	3.2.3.1.2.14.1	19-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/3	Nos	1	MEIL/SRB/SCC/PC/-016	RA-03C ✓
24	3.2.3.1.2.14.1	19-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D7	Nos	1	MEIL/SRB/SCC/PC/-016	RA-03C ✓
25	3.2.3.1.2.14.1	20-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B9	Nos	1	MEIL/SRB/SCC/PC/-017	RA-03C ✓
26	3.2.3.1.2.14.1	20-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC8	C/2,B/2	Nos	1	MEIL/SRB/SCC/PC/-017	RA-03C ✓
27	3.2.3.1.2.14.1	22-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D5	Nos	1	MEIL/SRB/SCC/PC/-018	RA-03C ✓
28	3.2.3.1.2.14.1	22-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D8	Nos	1	MEIL/SRB/SCC/PC/-018	RA-03C ✓



*Bokharia (EIL) पा. श्रीधर वरिष्ठ प्रबंधक इंजीनियरिंग कॉम्पनी लिमिटेड*



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



**Client : HPCL Rajasthan Refinery Limited. (HRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**Measurement Sheet- SUBSTATION-24 BUILDING - 3.2.3.1.2.14**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
29	3.2.3.1.2.14.1	25-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/2	Nos	1	MEIL/SRB/SCC/PC/-019	RA-03C ✓
30	3.2.3.1.2.14.1	25-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D6	Nos	1	MEIL/SRB/SCC/PC/-020	RA-03C ✓
31	3.2.3.1.2.14.1	25-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D9	Nos	1	MEIL/SRB/SCC/PC/-021	RA-03C ✓
32	3.2.3.1.2.14.1	26-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D12	Nos	1	MEIL/SRB/SCC/PC/-022	RA-03C ✓
33	3.2.3.1.2.14.1	26-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D13	Nos	1	MEIL/SRB/SCC/PC/-022	RA-03C ✓
34	3.2.3.1.2.14.1	27-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/5'	Nos	1	MEIL/SRB/SCC/PC/-023	RA-03C ✓
35	3.2.3.1.2.14.1	28-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/4	Nos	1	MEIL/SRB/SCC/PC/-024	RA-03C ✓
36	3.2.3.1.2.14.1	28-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/7	Nos	1	MEIL/SRB/SCC/PC/-024	RA-03C ✓
37	3.2.3.1.2.14.1	28-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/8	Nos	1	MEIL/SRB/SCC/PC/-025	RA-03C ✓
38	3.2.3.1.2.14.1	30-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/9	Nos	1	MEIL/SRB/SCC/PC/-026	RA-03C ✓
39	3.2.3.1.2.14.1	30-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	B12	Nos	1	MEIL/SRB/SCC/PC/-027	RA-03C ✓
40	3.2.3.1.2.14.1	30-04-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC7	D/10-11	Nos	1	MEIL/SRB/SCC/PC/-028	RA-03C ✓
41	3.2.3.1.2.14.1	02-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D14	Nos	1	MEIL/SRB/SCC/PC/-029	RA-03C ✓
42	3.2.3.1.2.14.1	05-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B14	Nos	1	MEIL/SRB/SCC/PC/-030	RA-03C ✓



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
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**Client : HPCL Rajasthan Refinery Limited. (HRRRL)**

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**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**Measurement Sheet- SUBSTATION-24 BUILDING - 3.2.3.1.2.14**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
43	3.2.3.1.2.14.1	06-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4A	E/10-11	Nos	1	MEIL/SRB/SCC/PC/-031	RA-03C ✓
44	3.2.3.1.2.14.1	09-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B15	Nos	1	MEIL/SRB/SCC/PC/-032	RA-03C ✓
45	3.2.3.1.2.14.1	12-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/14	Nos	1	MEIL/SRB/SCC/PC/-033	RA-03C ✓
46	3.2.3.1.2.14.1	13-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC7	B/10-11	Nos	1	MEIL/SRB/SCC/PC/-034	RA-03C ✓
47	3.2.3.1.2.14.1	14-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/15	Nos	1	MEIL/SRB/SCC/PC/-035	RA-03C ✓
48	3.2.3.1.2.14.1	20-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/13	Nos	1	MEIL/SRB/SCC/PC/-036	RA-03C ✓
49	3.2.3.1.2.14.1	25-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/12	Nos	1	MEIL/SRB/SCC/PC/-038	RA-03C ✓
50	3.2.3.1.2.14.1	25-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B13	Nos	1	MEIL/SRB/SCC/PC/-037	RA-03C ✓
51	3.2.3.1.2.14.1	26-05-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4A	A/10-11	Nos	1	MEIL/SRB/SCC/PC/-039	RA-03C ✓
52	3.2.3.1.2.14.1	22-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	A/17	Nos	1	MEIL/SRB/SCC/PC/-061	RA-03C ✓
53	3.2.3.1.2.14.1	22-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC2	A/16	Nos	1	MEIL/SRB/SCC/PC/-062	RA-03C ✓
54	3.2.3.1.2.14.1	23-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	A/18	Nos	1	MEIL/SRB/SCC/PC/-063	RA-03C ✓
55	3.2.3.1.2.14.1	25-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	B/18	Nos	1	MEIL/SRB/SCC/PC/-064	RA-03C ✓
56	3.2.3.1.2.14.1	25-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	C/18	Nos	1	MEIL/SRB/SCC/PC/-064	RA-03C ✓



*Bukhitar*  
Bukhitar  
संस्कृत प्रबन्धक  
इंसीनियरिंग

*P. Sridhar*  
P. Sridhar  
Senior Manager  
United



## **PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB) for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRRL)

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**Measurement Sheet- SUBSTATION-24 BUILDING - 3.2.3.1.2.14**

S No	BBU Item SI No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Pour Card No	Remarks
57	3.2.3.1.2.14.1	25-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	C'/18	Nos	1	MEIL/SRB/SCC/PC/-064	RA-03C
58	3.2.3.1.2.14.1	25-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	B16	Nos	1	MEIL/SRB/SCC/PC/-065	RA-03C
59	3.2.3.1.2.14.1	28-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC8	C/17,B/17	Nos	1	MEIL/SRB/SCC/PC/-066	RA-03C
60	3.2.3.1.2.14.1	29-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC1	D/18	Nos	1	MEIL/SRB/SCC/PC/-067	RA-03C
61	3.2.3.1.2.14.1	29-06-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC8	D/17,C'/17	Nos	1	MEIL/SRB/SCC/PC/-068	RA-03C
62	3.2.3.1.2.14.1	04-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D15	Nos	1	MEIL/SRB/SCC/PC/-071	RA-03C
63	3.2.3.1.2.14.1	04-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC6	D16	Nos	1	MEIL/SRB/SCC/PC/-071	RA-03C
64	3.2.3.1.2.14.1	06-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/16	Nos	1	MEIL/SRB/SCC/PC/-073	RA-03C
65	3.2.3.1.2.14.1	06-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC4	E/17	Nos	1	MEIL/SRB/SCC/PC/-073	RA-03C
66	3.2.3.1.2.14.1	18-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	E13	Nos	1	MEIL/SRB/SCC/PC/-079	RA-03C
67	3.2.3.1.2.14.1	18-07-2022	SS-24	B224-000-ECV-DLA-0206 B224-000-ECV-DLA-0209	1 1	PC5	E15	Nos	1	MEIL/SRB/SCC/PC/-079	RA-03C



MEIL

**P. Sridhar**  
Senior Manager  
Tata Consultancy Services India Limited  
Date: 10/08/2010  
Page 5 of 5  
आर. एस. आर.



PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

Measurement Sheet - Precast works - 3.2.3.1.2.13

S No	BBU Item Sl No	Location/ Structure	Drawing No	Rev No	Structure Type	Date of casting	Pour Card No	UoM	Qty	Remarks
1	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	01-06-2022	MEIL/SRB/SCC/PCB-001	Nos	1	RA-03C ✓
2	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	06-06-2022	MEIL/SRB/SCC/PCB-002	Nos	1	RA-03C ✓
3	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	06-06-2022	MEIL/SRB/SCC/PCB-002	Nos	1	RA-03C ✓
4	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	06-06-2022	MEIL/SRB/SCC/PCB-002	Nos	1	RA-03C ✓
5	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	08-06-2022	MEIL/SRB/SCC/PCB-004	Nos	1	RA-03C ✓
6	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	08-06-2022	MEIL/SRB/SCC/PCB-004	Nos	1	RA-03C ✓
7	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	22-06-2022	MEIL/SRB/SCC/PCB-005	Nos	1	RA-03C ✓
8	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	22-06-2022	MEIL/SRB/SCC/PCB-005	Nos	1	RA-03C ✓
9	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	22-06-2022	MEIL/SRB/SCC/PCB-005	Nos	1	RA-03C ✓
10	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	22-06-2022	MEIL/SRB/SCC/PCB-005	Nos	1	RA-03C ✓
11	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	27-06-2022	MEIL/SRB/SCC/PCB-007	Nos	1	RA-03C ✓
12	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	27-06-2022	MEIL/SRB/SCC/PCB-007	Nos	1	RA-03C ✓
13	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	27-06-2022	MEIL/SRB/SCC/PCB-007	Nos	1	RA-03C ✓
14	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	27-06-2022	MEIL/SRB/SCC/PCB-007	Nos	1	RA-03C ✓
15	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	29-06-2022	MEIL/SRB/SCC/PCB-008	Nos	1	RA-03C ✓
16	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	29-06-2022	MEIL/SRB/SCC/PCB-008	Nos	1	RA-03C ✓



B. M. Sato  
Project Manager  
H.M. Sato  
MEIL  
B. M. Sato  
Project Manager  
H.M. Sato  
MEIL



PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

Measurement Sheet - Precast works - 3.2.3.1.2.1.13

S No	BBU Item Sl No	Location/ Structure	Drawing No	Rev No	Structure Type	Date of casting	Pour Card No	UoM	Qty	Remarks
17	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	02-07-2022	MEIL/SRB/SCC/PCB-008A	Nos	1	RA-03C ✓
18	3.2.3.1.2.13.2	PR-01 B/ Beam	B224-000-ECV-DSE-0408,0409,0410	0	B02	02-07-2022	MEIL/SRB/SCC/PCB-008A	Nos	1	RA-03C ✓
19	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	08-07-2022	MEIL/SRB/SCC/PCB-009	Nos	1	RA-03C ✓
20	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	08-07-2022	MEIL/SRB/SCC/PCB-009	Nos	1	RA-03C ✓
21	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	08-07-2022	MEIL/SRB/SCC/PCB-009	Nos	1	RA-03C ✓
22	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	08-07-2022	MEIL/SRB/SCC/PCB-009	Nos	1	RA-03C ✓
23	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	11-07-2022	MEIL/SRB/SCC/PCB-010	Nos	1	RA-03C ✓
24	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	11-07-2022	MEIL/SRB/SCC/PCB-010	Nos	1	RA-03C ✓
25	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	14-07-2022	MEIL/SRB/SCC/PCB-011	Nos	1	RA-03C ✓
26	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	14-07-2022	MEIL/SRB/SCC/PCB-011	Nos	1	RA-03C ✓
27	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	15-07-2022	MEIL/SRB/SCC/PCB-012	Nos	1	RA-03C ✓
28	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	18-07-2022	MEIL/SRB/SCC/PCB-013	Nos	1	RA-03C ✓
29	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	18-07-2022	MEIL/SRB/SCC/PCB-013	Nos	1	RA-03C ✓
30	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	20-07-2022	MEIL/SRB/SCC/PCB-013A	Nos	1	RA-03C ✓
31	3.2.3.1.2.13.2	PR-01 A/ Beam	B224-000-ECV-DSE-0401,0402,0403	1	B02	21-07-2022	MEIL/SRB/SCC/PCB-014	Nos	1	RA-03C ✓
32	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	19-06-2022	MEIL/SRB/SCC/PCC-001	Nos	1	RA-03C ✓



B. Sridhar  
BEP. श्रीदर  
वरिष्ठ प्रबोधक  
इंजीनियर  
MEIL



PROJECT : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

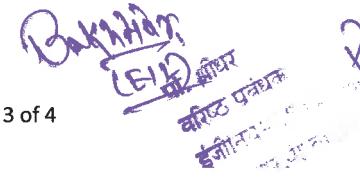
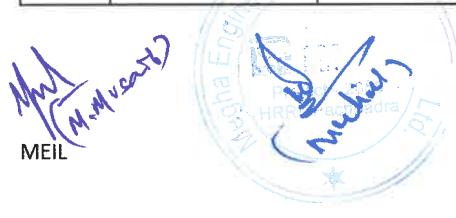
Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

Measurement Sheet - Precast works - 3.2.3.1.2.1.13

S No	BBU Item Sl No	Location/ Structure	Drawing No	Rev No	Structure Type	Date of casting	Pour Card No	UoM	Qty	Remarks
33	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	22-06-2022	MEIL/SRB/SCC/PCC-002	Nos	1	RA-03C ✓
34	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	24-06-2022	MEIL/SRB/SCC/PCC-003	Nos	1	RA-03C ✓
35	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	27-06-2022	MEIL/SRB/SCC/PCC-004	Nos	1	RA-03C ✓
36	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	29-06-2022	MEIL/SRB/SCC/PCC-005	Nos	1	RA-03C ✓
37	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	30-06-2022	MEIL/SRB/SCC/PCC-006	Nos	1	RA-03C ✓
38	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	02-07-2022	MEIL/SRB/SCC/PCC-007	Nos	1	RA-03C ✓
39	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	06-07-2022	MEIL/SRB/SCC/PCC-007A	Nos	1	RA-03C ✓
40	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	08-07-2022	MEIL/SRB/SCC/PCC-008	Nos	1	RA-03C ✓
41	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	11-07-2022	MEIL/SRB/SCC/PCC-009	Nos	1	RA-03C ✓
42	3.2.3.1.2.13.1	PR-01 B/ Column	B224-000-ECV-DSE-0408,0409,0410	0	C1	13-07-2022	MEIL/SRB/SCC/PCC-010	Nos	1	RA-03C ✓
43	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	14-07-2022	MEIL/SRB/SCC/PCC-011	Nos	1	RA-03C ✓
44	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	15-07-2022	MEIL/SRB/SCC/PCC-012	Nos	1	RA-03C ✓
45	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	16-07-2022	MEIL/SRB/SCC/PCC-012A	Nos	1	RA-03C ✓
46	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	18-07-2022	MEIL/SRB/SCC/PCC-012B	Nos	1	RA-03C ✓
47	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	20-07-2022	MEIL/SRB/SCC/PCC-012C	Nos	1	RA-03C ✓
48	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	21-07-2022	MEIL/SRB/SCC/PCC-013	Nos	1	RA-03C ✓





PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

Measurement Sheet - Precast works - 3.2.3.1.2.13

S No	BBU Item Sl No	Location/ Structure	Drawing No	Rev No	Structure Type	Date of casting	Pour Card No	UoM	Qty	Remarks
49	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	21-07-2022	MEIL/SRB/SCC/PCC-014	Nos	1	RA-03C ✓
50	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	22-07-2022	MEIL/SRB/SCC/PCC-015	Nos	1	RA-03C ✓
51	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	25-07-2022	MEIL/SRB/SCC/PCC-016	Nos	1	RA-03C ✓
52	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	25-07-2022	MEIL/SRB/SCC/PCC-017	Nos	1	RA-03C ✓
53	3.2.3.1.2.13.1	PR-01 A/ Column	B224-000-ECV-DSE-0401,0402,0403	1	C1	28-07-2022	MEIL/SRB/SCC/PCC-018	Nos	1	RA-03C ✓
54	3.2.3.1.2.13.1	PR-01 C/ Column	B224-000-ECV-DSE-0415,0416,0417	1	C1	28-07-2022	MEIL/SRB/SCC/PCC-019	Nos	1	RA-03C ✓



Bokhtiar (E.I.L.)  
Mr. Shrihar  
वरिष्ठ प्रबंधक  
इंजीनियर  
आर.एस.

Rajeshwar  
Senior Manager  
MEIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Piling Summary Sheet**



Client : HPCCL Rajasthan Refinery Limited (HRRRL)  
 PWC: Engineers India limited (EIL)  
 Contractor : Megha Engineer and Infrastructure limited (MEIL)  
 Ref. LOA No : HRRRL/LOA/2021/12 (Dc: 2)

RA BILL No. :2050/EPCC-6/CON/RAS

Area	UOM	This Billing Qty			Previous Billing Qty			Total Qty			Remarks		
		500	600	750	Total	500	600	750	Total	500	600		
SS-24	Nos				-	114	-	235	349	114	-	235	349
SRR-05	Nos				-	-	-	271	271	271	-	271	271
PR-01A	Nos				-	2	-	91	93	2	-	91	93
PR-01B	Nos				36	36	-	48	48	48	-	84	84
PR-01C	Nos				6	6	-	123	123	123	-	129	129
PR-01D	Nos				-	-	-	142	142	142	-	142	142
PR-01E	Nos				22	22	-	58	58	58	-	80	80
PR-01F	Nos				7	7	-	50	50	50	-	57	57
PR-01G	Nos				-	-	-	102	102	102	-	102	102
PR 2	Nos				-	-	-	75	75	75	-	75	75
PR 3	Nos				-	91	-	-	91	91	-	-	91
PR 04 & TS-01	Nos				-	-	-	111	48	159	-	111	48
PR 5	Nos				16	16	18	86	-	104	18	102	-
PR-06A	Nos				-	-	48	-	48	-	48	-	48
PR-06B	Nos				-	-	53	-	53	-	53	-	53
PR-06C	Nos				-	-	33	-	33	-	33	-	33
PR 7	Nos				-	-	54	-	54	-	54	-	54
PR 8,PR 9,TS 08,TS 09	Nos				-	-	144	-	144	-	144	-	144
PR 10	Nos	4			4	-	-	-	-	4	-	-	4
TS 02	Nos				-	-	-	100	100	-	-	100	100
TS 03	Nos				-	-	-	100	100	-	-	100	100
TS 04	Nos				25	-	25	-	17	-	17	-	42
TS 05	Nos				15	-	15	-	27	-	27	-	42
TS 06	Nos				-	-	36	-	36	-	36	-	36
TS 07	Nos	1			-	1	-	67	-	67	-	68	-
TS 10	Nos				-	-	16	-	16	-	16	-	16
TS 11	Nos				-	-	16	-	16	-	16	-	16
TS 12	Nos				-	-	49	-	49	-	49	-	49
EQ. 118-C-0001 & EQ.	Nos				14	14	-	-	-	-	14	-	14
EQ-121-C-1101, 121-C-1201	Nos				24	24	-	-	-	-	24	-	24
EQ-121-C-2101, 121-C-2201	Nos				17	17	-	-	-	-	17	-	17
SULPHUR YARD	Nos				-	40	-	396	436	40	-	396	436
Total	Nos	4	57	126	187	265	832	1,764	2,861	269	889	1,890	3,048





**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



**Client : HPCL Rajasthan Refinery Limited. (HRRL)**

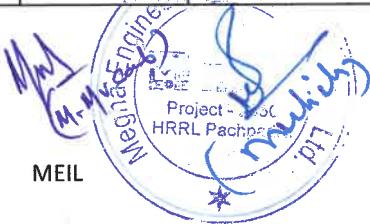
**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)**

**Measurement Period : 01-06-22 to 31-07-22**

SI No.	BBU Item SI No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
1	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2857	01-06-22	P-7932	600	Nos	1	RA-03C ✓
2	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2858	01-06-22	P-7916	600	Nos	1	RA-03C ✓
3	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2861	01-06-22	P-8142	600	Nos	1	RA-03C ✓
4	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2862	01-06-22	P-8138	600	Nos	1	RA-03C ✓
5	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2863	01-06-22	P-8110	600	Nos	1	RA-03C ✓
6	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2864	01-06-22	P-7938	600	Nos	1	RA-03C ✓
7	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2865	01-06-22	P-8104	600	Nos	1	RA-03C ✓
8	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2866	01-06-22	P-7931	600	Nos	1	RA-03C ✓
9	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2867	01-06-22	P-8118	600	Nos	1	RA-03C ✓
10	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2868	01-06-22	P-8103	600	Nos	1	RA-03C ✓
11	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2869	01-06-22	P-7930	600	Nos	1	RA-03C ✓
12	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2870	01-06-22	P-8111	600	Nos	1	RA-03C ✓
13	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2871	01-06-22	P-7923	600	Nos	1	RA-03C ✓
14	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2872	01-06-22	P-7901	600	Nos	1	RA-03C ✓
15	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2873	01-06-22	P-7907	600	Nos	1	RA-03C ✓
16	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2874	01-06-22	P-7918	600	Nos	1	RA-03C ✓
17	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2875	01-06-22	P-7903	600	Nos	1	RA-03C ✓
18	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2876	01-06-22	P-8119	600	Nos	1	RA-03C ✓
19	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2877	01-06-22	P-8102	600	Nos	1	RA-03C ✓
20	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2878	01-06-22	P-7917	600	Nos	1	RA-03C ✓
21	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2879	01-06-22	P-7922	600	Nos	1	RA-03C ✓
22	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2880	01-06-22	P-7906	600	Nos	1	RA-03C ✓
23	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2881	01-06-22	P-7909	600	Nos	1	RA-03C ✓
24	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2882	01-06-22	P-7912	600	Nos	1	RA-03C ✓
25	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2883	02-06-22	P-8108	600	Nos	1	RA-03C ✓
26	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2884	02-06-22	P-7908	600	Nos	1	RA-03C ✓



*Balkhar*  
*EIL*

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श्री श्रीयर  
 बर्गक प्रवंद्यम

*S. Sridhar*  
*Senior Manager*

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

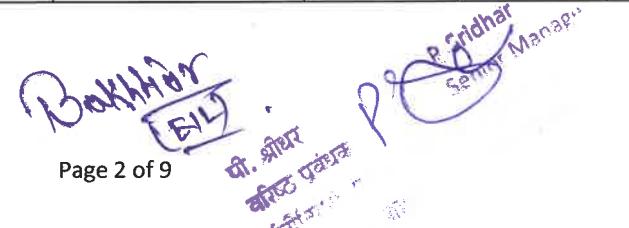
**Measurement Period : 01-06-22 to 31-07-22**

SI No.	BBU Item SI No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
27	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2885	02-06-22	P-8112	600	Nos	1	RA-03C ✓
28	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2886	02-06-22	P-7902	600	Nos	1	RA-03C ✓
29	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2887	02-06-22	P-8106	600	Nos	1	RA-03C ✓
30	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2888	02-06-22	P-7913	600	Nos	1	RA-03C ✓
31	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2889	02-06-22	P-7915	600	Nos	1	RA-03C ✓
32	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2890	02-06-22	P-8107	600	Nos	1	RA-03C ✓
33	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2891	02-06-22	P-8109	600	Nos	1	RA-03C ✓
34	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2892	02-06-22	P-7910	600	Nos	1	RA-03C ✓
35	3.2.3.1.1.1	TS-05	B224-121-ECV-DLA-0012	0	MEIL/SRB/PC/-2893	02-06-22	P-8105	600	Nos	1	RA-03C ✓
36	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2894	02-06-22	P-7919	600	Nos	1	RA-03C ✓
37	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	3	MEIL/SRB/PC/-2895	02-06-22	P-1149	750	Nos	1	RA-03C ✓
38	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	3	MEIL/SRB/PC/-2896	02-06-22	P-1155	750	Nos	1	RA-03C ✓
39	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2898	03-06-22	P-1161	750	Nos	1	RA-03C ✓
40	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2899	03-06-22	P-7911	600	Nos	1	RA-03C ✓
41	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2900	03-06-22	P-7905	600	Nos	1	RA-03C ✓
42	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2901	03-06-22	P-1167	750	Nos	1	RA-03C ✓
43	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2902	03-06-22	P-1173	750	Nos	1	RA-03C ✓
44	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2903	03-06-22	P-7914	600	Nos	1	RA-03C ✓
45	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2905	03-06-22	P-1164	750	Nos	1	RA-03C ✓
46	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2906	03-06-22	P-1150	750	Nos	1	RA-03C ✓
47	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2907	03-06-22	P-1170	750	Nos	1	RA-03C ✓
48	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2908	03-06-22	P-1165	750	Nos	1	RA-03C ✓
49	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2909	03-06-22	P-1168	750	Nos	1	RA-03C ✓
50	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2910	03-06-22	P-1153	750	Nos	1	RA-03C ✓
51	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2911	03-06-22	P-1152	750	Nos	1	RA-03C ✓
52	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2904	03-06-22	P-1158	750	Nos	1	RA-03C ✓



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**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

**Measurement Period : 01-06-22 to 31-07-22**

Sl No.	BBU Item Sl No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
53	3.2.3.1.1.1	TS-04	B224-121-ECV-DLA-0001	0	MEIL/SRB/PC/-2897	03-06-22	P-7904	600	Nos	1	RA-03C ✓
54	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2918	04-06-22	P-1159	750	Nos	1	RA-03C ✓
55	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2912	04-06-22	P-1162	750	Nos	1	RA-03C ✓
56	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2913	04-06-22	P-1151	750	Nos	1	RA-03C ✓
57	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2914	04-06-22	P-1171	750	Nos	1	RA-03C ✓
58	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2915	04-06-22	P-1156	750	Nos	1	RA-03C ✓
59	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2916	04-06-22	P-6068	750	Nos	1	RA-03C ✓
60	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2917	04-06-22	P-6067	750	Nos	1	RA-03C ✓
61	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2919	04-06-22	P-6087	750	Nos	1	RA-03C ✓
62	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2920	04-06-22	P-6072	750	Nos	1	RA-03C ✓
63	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2921	04-06-22	P-6071	750	Nos	1	RA-03C ✓
64	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2922	04-06-22	P-6055	750	Nos	1	RA-03C ✓
65	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2923	04-06-22	P-6059	750	Nos	1	RA-03C ✓
66	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2924	04-06-22	P-6063	750	Nos	1	RA-03C ✓
67	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2925	04-06-22	P-6080	750	Nos	-1	RA-03C ✓
68	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2926	06-06-22	P-6056	750	Nos	1	RA-03C ✓
69	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2927	06-06-22	P-6075	750	Nos	1	RA-03C ✓



Bukhtar  
EIL

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श्रीधर  
बाबू राजेश  
कुमार

Parichar  
Sencha Managi

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project  
Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

**Measurement Period : 01-06-22 to 31-07-22**

Sl No.	BBU Item Sl No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
70	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2928	06-06-22	P-6083	750	Nos	1	RA-03C ✓
71	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2929	06-06-22	P-6044	750	Nos	1	RA-03C ✓
72	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2931	06-06-22	P-6054	750	Nos	1	RA-03C ✓
73	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2932	06-06-22	P-6052	750	Nos	1	RA-03C ✓
74	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2933	06-06-22	P-6051	750	Nos	1	RA-03C ✓
75	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2934	06-06-22	P-6079	750	Nos	1	RA-03C ✓
76	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2935	06-06-22	P-6076	750	Nos	1	RA-03C ✓
77	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2936	06-06-22	P-6084	750	Nos	1	RA-03C ✓
78	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2937	06-06-22	P-6064	750	Nos	1	RA-03C ✓
79	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2930	06-06-22	P-6088	750	Nos	1	RA-03C ✓
80	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2938	07-06-22	P-6045	750	Nos	1	RA-03C ✓
81	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-2939	07-06-22	P-6069	750	Nos	1	RA-03C ✓
82	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2940	07-06-22	P-6043	750	Nos	1	RA-03C ✓
83	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2941	07-06-22	P-6047	750	Nos	1	RA-03C ✓
84	3.2.3.1.1.1	TS-07	B224-121-ECV-DLA-0034	0	MEIL/SRB/PC/-2942	07-06-22	P-8566	600	Nos	1	RA-03C ✓



*Bokhatar*  
Eng  
P. S. Sahoo  
Senior Manager  
P. S. Sahoo  
Shri. Shreedhar  
वरिष्ठ प्रबन्धक  
दंगोल



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

**Measurement Period : 01-06-22 to 31-07-22**

Sl No.	BBU Item Sl No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
85	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2943	07-06-22	P-6057	750	Nos	1	RA-03C ✓
86	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2944	07-06-22	P-1160	750	Nos	1	RA-03C ✓
87	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2945	07-06-22	P-1154	750	Nos	1	RA-03C ✓
88	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2946	07-06-22	P-1166	750	Nos	1	RA-03C ✓
89	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2947	07-06-22	P-1174	750	Nos	1	RA-03C ✓
90	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2948	07-06-22	P-6046	750	Nos	1	RA-03C ✓
91	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2949	07-06-22	P-1157	750	Nos	1	RA-03C ✓
92	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2950	07-06-22	P-6048	750	Nos	1	RA-03C ✓
93	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2951	07-06-22	P-1163	750	Nos	1	RA-03C ✓
94	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-2952	08-06-22	P-1169	750	Nos	1	RA-03C ✓
95	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2953	08-06-22	P-6050	750	Nos	1	RA-03C ✓
96	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2954	08-06-22	P-6060	750	Nos	1	RA-03C ✓
97	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2955	08-06-22	P-6058	750	Nos	1	RA-03C ✓
98	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2956	08-06-22	P-6066	750	Nos	1	RA-03C ✓
99	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2957	08-06-22	P-6053	750	Nos	1	RA-03C ✓
100	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2958	08-06-22	P-6049	750	Nos	1	RA-03C ✓
101	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2959	08-06-22	P-6065	750	Nos	1	RA-03C ✓
102	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2960	08-06-22	P-6061	750	Nos	1	RA-03C ✓



Bokhtiar  
(S/L)

Page 5 of 9

पं. श्रीराम  
वरिष्ठ प्रबन्धक

R. Singh  
Senior Manager

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



**Client : HPCL Rajasthan Refinery Limited. (HRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)**

**Measurement Period : 01-06-22 to 31-07-22**

Sl No.	BBU Item Sl No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
103	3.2.3.1.1.1	EQ-121-C-1101, 121-C-1201	B224-121-ECV-DLA-0350	0	MEIL/SRB/PC/-2961	08-06-22	P-6062	750	Nos	1	RA-03C ✓
104	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2962	08-06-22	P-2553	600	Nos	1	RA-03C ✓
105	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2963	08-06-22	P-2556	600	Nos	1	RA-03C ✓
106	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2964	09-06-22	P-2502	600	Nos	1	RA-03C ✓
107	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2965	09-06-22	P-2527	600	Nos	1	RA-03C ✓
108	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2966	09-06-22	P-2512	600	Nos	1	RA-03C ✓
109	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2967	09-06-22	P-2520	600	Nos	1	RA-03C ✓
110	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2968	09-06-22	P-2526	600	Nos	1	RA-03C ✓
111	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2969	09-06-22	P-2504	600	Nos	1	RA-03C ✓
112	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-2970	09-06-22	P-2537	600	Nos	1	RA-03C ✓
113	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2971	10-06-22	P-1299	750	Nos	1	RA-03C ✓
114	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2972	10-06-22	P-1279	750	Nos	1	RA-03C ✓
115	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2973	10-06-22	P-1294	750	Nos	1	RA-03C ✓
116	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2974	10-06-22	P-1284	750	Nos	1	RA-03C ✓
117	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2975	10-06-22	P-1289	750	Nos	1	RA-03C ✓
118	3.2.3.1.1.1	PR-01C	B224-000-ECV-DLA-0409	5	MEIL/SRB/PC/-2976	10-06-22	P-1329	750	Nos	1	RA-03C ✓
119	3.2.3.1.1.1	PR-10	B224-000-ECV-DLA-0477	1	MEIL/SRB/PC/-2977	15-06-22	P-4401	500	Nos	1	RA-03C ✓
120	3.2.3.1.1.1	PR-10	B224-000-ECV-DLA-0477	1	MEIL/SRB/PC/-2978	15-06-22	P-4402	500	Nos	1	RA-03C ✓
121	3.2.3.1.1.1	PR-10	B224-000-ECV-DLA-0477	1	MEIL/SRB/PC/-2979	15-06-22	P-4403	500	Nos	1	RA-03C ✓
122	3.2.3.1.1.1	PR-10	B224-000-ECV-DLA-0477	1	MEIL/SRB/PC/-2980	15-06-22	P-4404	500	Nos	1	RA-03C ✓
123	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2981	27-06-22	P-1683	750	Nos	1	RA-03C ✓
124	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2982	27-06-22	P-1673	750	Nos	1	RA-03C ✓
125	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2983	27-06-22	P-1663	750	Nos	1	RA-03C ✓
126	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2984	28-06-22	P-1678	750	Nos	1	RA-03C ✓
127	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2985	28-06-22	P-1668	750	Nos	1	RA-03C ✓

M.M.  
(M. Mucaid)  
MEIL



Balkhaar  
(B.I.L)  
पी. श्रीधर  
वरिष्ठ प्रबंधक  
दिल्ली

P. Sardar  
Senior Manager  
d  
P. Sardar  
Senior Manager



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

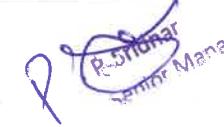
**Measurement Period : 01-06-22 to 31-07-22**

SI No.	BBU Item SI No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
128	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2986	28-06-22	P-1695	750	Nos	1	RA-03C ✓
129	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2987	28-06-22	P-1704	750	Nos	1	RA-03C ✓
130	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2988	28-06-22	P-1698	750	Nos	1	RA-03C ✓
131	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2989	29-06-22	P-1701	750	Nos	1	RA-03C ✓
132	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2990	29-06-22	P-1662	750	Nos	1	RA-03C ✓
133	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2991	29-06-22	P-1703	750	Nos	1	RA-03C ✓
134	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2992	29-06-22	P-1692	750	Nos	1	RA-03C ✓
135	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2993	29-06-22	P-1697	750	Nos	1	RA-03C ✓
136	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2994	29-06-22	P-1667	750	Nos	1	RA-03C ✓
137	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2995	29-06-22	P-1694	750	Nos	1	RA-03C ✓
138	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2999	30-06-22	P-1696	750	Nos	1	RA-03C ✓
139	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2996	30-06-22	P-1700	750	Nos	1	RA-03C ✓
140	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2997	30-06-22	P-1691	750	Nos	1	RA-03C ✓
141	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-3001	30-06-22	P-1699	750	Nos	1	RA-03C ✓
142	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-2998	30-06-22	P-1686	750	Nos	1	RA-03C ✓
143	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-3000	30-06-22	P-1702	750	Nos	1	RA-03C ✓
144	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3005	01-07-22	P-1825	750	Nos	1	RA-03C ✓
145	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3007	01-07-22	P-1845	750	Nos	1	RA-03C ✓
146	3.2.3.1.1.1	PR-01E	B224-000-ECV-DLA-0417	5	MEIL/SRB/PC/-3002	01-07-22	P-1689	750	Nos	1	RA-03C ✓
147	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3003	01-07-22	P-1850	750	Nos	1	RA-03C ✓
148	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3004	01-07-22	P-1840	750	Nos	1	RA-03C ✓
149	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3006	01-07-22	P-1835	750	Nos	1	RA-03C ✓
150	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3008	01-07-22	P-1830	750	Nos	1	RA-03C ✓
151	3.2.3.1.1.1	PR-01F	B224-000-ECV-DLA-0421	5	MEIL/SRB/PC/-3009	02-07-22	P-1849	750	Nos	1	RA-03C ✓
152	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/SRB/PC/-3010	15-07-22	P-2511	600	Nos	1	RA-03C ✓
153	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-3011	25-07-22	P-1178	750	Nos	1	RA-03C ✓



*Balkhatar*  
*EIL*

पी. श्रीराम  
विश्व एंजिनियरिंग



EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



**Client : HPCL Rajasthan Refinery Limited. (HRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)**

**Measurement Period : 01-06-22 to 31-07-22**

Sl No.	BBU Item Sl No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
154	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3018	25-07-22	P-1182	750	Nos	1	RA-03C ✓
155	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3015	25-07-22	P-1184	750	Nos	1	RA-03C ✓
156	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3014	25-07-22	P-2501	600	Nos	1	RA-03C ✓
157	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3013	25-07-22	P-2509	600	Nos	1	RA-03C ✓
158	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3012	25-07-22	P-2519	600	Nos	1	RA-03C ✓
159	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3016	25-07-22	P-2533	600	Nos	1	RA-03C ✓
160	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3017	25-07-22	P-2534	600	Nos	1	RA-03C ✓
161	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3020	27-07-22	P-1179	750	Nos	1	RA-03C ✓
162	3.2.3.1.1.1	PR 5	B224-000-ECV-DLA-0441	0	MEIL/ SRB/PC/-3019	27-07-22	P-2503	600	Nos	1	RA-03C ✓
163	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3027	28-07-22	P-1176	750	Nos	1	RA-03C ✓
164	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3023	28-07-22	P-1181	750	Nos	1	RA-03C ✓
165	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/ SRB/PC/-3025	28-07-22	P-6081	750	Nos	1	RA-03C ✓
166	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3021	28-07-22	P-6017	750	Nos	1	RA-03C ✓
167	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3024	28-07-22	P-6019	750	Nos	1	RA-03C ✓
168	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3022	28-07-22	P-6031	750	Nos	1	RA-03C ✓
169	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3026	28-07-22	P-6037	750	Nos	1	RA-03C ✓
170	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3028	28-07-22	P-6040	750	Nos	1	RA-03C ✓
171	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3035	29-07-22	P-1172	750	Nos	1	RA-03C ✓
172	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3032	29-07-22	P-1177	750	Nos	1	RA-03C ✓
173	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/ SRB/PC/-3030	29-07-22	P-1183	750	Nos	1	RA-03C ✓
174	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/ SRB/PC/-3033	29-07-22	P-6016	750	Nos	1	RA-03C ✓



*(Signature)*  
*M. Meenabhi*  
*Project Manager*  
*HRRL Project*  
*MEIL*



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**  
**Measurement Sheet For Piling Works**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

**Measurement Period : 01-06-22 to 31-07-22**

SI No.	BBU Item SI No	Location	Drawing No	Rev	Pour Card Report No	Date Of Casting	Pile No	Pile Dia (mm)	UoM	Quantity	Remarks
175	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3031	29-07-22	P-6018	750	Nos	1	RA-03C
176	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3036	29-07-22	P-6020	750	Nos	1	RA-03C
177	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3029	29-07-22	P-6021	750	Nos	1	RA-03C
178	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3034	29-07-22	P-6042	750	Nos	1	RA-03C
179	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-3042	30-07-22	P-1175	750	Nos	1	RA-03C
180	3.2.3.1.1.1	PR-01B	B224-000-ECV-DLA-0405	5	MEIL/SRB/PC/-3038	30-07-22	P-1180	750	Nos	1	RA-03C
181	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-3041	30-07-22	P-6082	750	Nos	1	RA-03C
182	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3039	30-07-22	P-6015	750	Nos	1	RA-03C
183	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3040	30-07-22	P-6036	750	Nos	1	RA-03C
184	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-3046	31-07-22	P-6073	750	Nos	1	RA-03C
185	3.2.3.1.1.1	EQ-121-C-2101, 121-C-2201	B224-121-ECV-DLA-0351	0	MEIL/SRB/PC/-3043	31-07-22	P-6089	750	Nos	1	RA-03C
186	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3045	31-07-22	P-6024	750	Nos	1	RA-03C
187	3.2.3.1.1.1	EQ. 118-C-0001 & EQ. 119-C-0001	B224-118-ECV-DLA-0008	0	MEIL/SRB/PC/-3044	31-07-22	P-6038	750	Nos	1	RA-03C
<b>Total</b>										<b>187</b>	



MEIL

*Bokhara (E112), श्रीधर  
विश्वास पवार  
इंजीनीयर  
आर..*

*R. Sridhar  
Senior Manager*

*एन.जे. बरुआ<sup>ted</sup>  
सहायक महाप्रबंधक  
इंजीनियर सूचिटे लिमिटेड  
आर.आर.पी. बाइमोर  
RRP-Barmer EIL*

*N.J. Baruah  
Asst. General Manager  
Engineers India Limited*



PROJECT : EPCC-06 Package - Sulphur Recovery Block(SRB) for Rajasthan Refinery Project  
Load Test Summary Sheet



Client : HPCL Rajasthan Refinery Limited (HRRRL)  
PMC : Engineers India Limited (EIL)  
Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/71 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22 ~

RA Bill No. : 2050/EPCC-6/CON/RA3

Area	UOM	This Billing Qty	Previous Billing Qty	Cumulative Billing Qty	Scope Of Load Test	Achived Qty	Remarks
SS-24	Nos	349	349	349	5	5	
SRR-05	Nos	271	271	271	4	4	
PR-01A	Nos	93	93	93	2	2	
PR-01B	Nos	36	48	84	3	3	
PR-01C	Nos	6	123	129	3	3	
PR-01D	Nos	142	142	142	2	2	
PR-01E	Nos	22	58	80	1	1	
PR-01F	Nos	7	50	57	1	1	
PR-01G	Nos	102	102	102	2	2	
PR 2	Nos	75	75	75	1	1	
PR 3	Nos	91	91	91	1	1	
PR 04 & TS-01	Nos	159	159	159	3	1	
PR 5	Nos	16	104	120	2	1	
PR-06A	Nos	48	48	48	2	2	
PR-06B	Nos	53	53	53	1	1	
PR-06C	Nos	33	33	33	1	1	
PR 7	Nos	54	54	54	1	1	
PR 8,PR 9,TS 08,TS 09	Nos	144	144	144	3	2	
PR 10	Nos	4	-	4	-	-	
TS 02	Nos	100	100	100	2	1	
TS 03	Nos	100	100	100	2	1	
TS 04	Nos	25	17	42	1	1	
TS 05	Nos	15	27	42	1	1	
TS 06	Nos	36	36	36	1	1	
TS 07	Nos	1	67	68	1	-	
TS 10	Nos	16	16	16	1	1	
TS 11	Nos	16	16	16	1	1	
TS 12	Nos	49	49	49	1	-	
EQ. 118-C-0001 & EQ. 119-C-0001	Nos	14	14	14	-	-	
EQ-121-C-1101, 121-C-1201	Nos	24	24	24	1	-	
EQ-121-C-2101, 121-C-2201	Nos	17	17	17	1	-	
SULPHUR YARD	Nos	436	436	436	7	7	
Total	Nos	187	2,861	3,048	58	48	-



Dr. Amit Srivastava  
Project Manager  
HRRRL Participant  
MEIL

R. Srividhar  
Senior Manager  
Engineers India Limited



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**



**Client : HPCL Rajasthan Refinery Limited. (HRRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**Measurement Sheet - UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Casting - 3.2.3.1.2.13.41**

S No	BBU Item Sl No	Structure	Drawing No	Rev No	Date of casting	Pour Card No	UoM	Qty	Remarks
1	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	01-07-2022	MEIL/SRB/SCC/CB-001	Nos	2	RA-03C
2	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	07-07-2022	MEIL/SRB/SCC/CB-001A	Nos	5	RA-03C
3	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	08-07-2022	MEIL/SRB/SCC/CB-002	Nos	5	RA-03C
4	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	09-07-2022	MEIL/SRB/SCC/CB-002A	Nos	5	RA-03C
5	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	11-07-2022	MEIL/SRB/SCC/CB-003	Nos	5	RA-03C
6	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	13-07-2022	MEIL/SRB/SCC/CB-004	Nos	5	RA-03C
7	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	14-07-2022	MEIL/SRB/SCC/CB-005	Nos	5	RA-03C
8	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	14-07-2022	MEIL/SRB/SCC/CB-006	Nos	5	RA-03C
9	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	15-07-2022	MEIL/SRB/SCC/CB-007	Nos	5	RA-03C
10	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	13-07-2022	MEIL/SRB/SCC/CB-008	Nos	5	RA-03C
11	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	19-07-2022	MEIL/SRB/SCC/CB-009	Nos	6	RA-03C
12	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	20-07-2022	MEIL/SRB/SCC/CB-009A	Nos	5	RA-03C
13	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	22-07-2022	MEIL/SRB/SCC/CB-010	Nos	5	RA-03C
14	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	23-07-2022	MEIL/SRB/SCC/CB-011	Nos	5	RA-03C
15	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	27-07-2022	MEIL/SRB/SCC/CB-012	Nos	5	RA-03C
16	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	28-07-2022	MEIL/SRB/SCC/CB-013	Nos	5	RA-03C
17	3.2.3.1.2.13.41	Catch Basin	B224-000-ECV-DST-0102	0	29-07-2022	MEIL/SRB/SCC/CB-014	Nos	5	RA-03C
Total Quantity in Numbers								83	

(M.M.Saini)  
 Megha Engineering & Infra  
 Project No. 2050  
 HRRRL Refinery  
 (EIL)

(M.M.Saini)  
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 HRRRL Refinery  
 (EIL)

Buldhana बुलढाना  
 Buldhana बुलढाना  
 (EIL) (EIL)

R.D. Soehar  
 Project Manager  
 India Limited



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



**Client : HPCL Rajasthan Refinery Limited. (HRRL)**

**PMC : Engineers india limited. (EIL)**

**Contractor : Megha Engineer and Infrastructure Limited (MEIL)**

**Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. : 2050/EPCC-6/CON/RA3**

**PIPE RACK - Measurement Sheet - 3.2.3.1.2.9.b.2**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Report Number	Remarks
1	3.2.3.1.2.9.b.2	22-06-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC1	K/32	Nos	1	MEIL/SRB/SCC/S/PC/-001	RA-03C
2	3.2.3.1.2.9.b.2	22-06-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC3	K/30	Nos	1	MEIL/SRB/SCC/S/PC/-002	RA-03C
3	3.2.3.1.2.9.b.4	23-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	M3/02	Nos	1	MEIL/SRB/SCC/S/PC/-003	RA-03C
4	3.2.3.1.2.9.b.4	23-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	M3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-003	RA-03C
5	3.2.3.1.2.9.b.4	23-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	R3/02	Nos	1	MEIL/SRB/SCC/S/PC/-003	RA-03C
6	3.2.3.1.2.9.b.4	23-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	R3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-003	RA-03C
7	3.2.3.1.2.9.b.2	27-06-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC4	K/34	Nos	1	MEIL/SRB/SCC/S/PC/-005	RA-03C
8	3.2.3.1.2.9.b.2	27-06-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC3	K/33	Nos	1	MEIL/SRB/SCC/S/PC/-006	RA-03C
9	3.2.3.1.2.9.b.4	28-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	N3/02	Nos	1	MEIL/SRB/SCC/S/PC/-007	RA-03C
10	3.2.3.1.2.9.b.4	28-06-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	N3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-007	RA-03C
11	3.2.3.1.2.9.b.2	30-06-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC3	J/33	Nos	1	MEIL/SRB/SCC/S/PC/-009	RA-03C
12	3.2.3.1.2.9.b.2	30-06-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC1	J/31	Nos	1	MEIL/SRB/SCC/S/PC/-010	RA-03C
13	3.2.3.1.2.9.b.4	05-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	Q3/02	Nos	1	MEIL/SRB/SCC/S/PC/-011	RA-03C
14	3.2.3.1.2.9.b.4	05-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	Q3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-011	RA-03C
15	3.2.3.1.2.9.b.4	05-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC2	O3/02	Nos	1	MEIL/SRB/SCC/S/PC/-011	RA-03C
16	3.2.3.1.2.9.b.4	05-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC2	O3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-011	RA-03C
17	3.2.3.1.2.9.b.2	07-07-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC1	K/31	Nos	1	MEIL/SRB/SCC/S/PC/-012	RA-03C
18	3.2.3.1.2.9.b.2	07-07-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC3	K/29	Nos	1	MEIL/SRB/SCC/S/PC/-012	RA-03C
19	3.2.3.1.2.9.b.2	11-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC1	J/32	Nos	1	MEIL/SRB/SCC/S/PC/-013	RA-03C
20	3.2.3.1.2.9.b.4	11-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	P3/02	Nos	1	MEIL/SRB/SCC/S/PC/-014	RA-03C
21	3.2.3.1.2.9.b.4	11-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC1	P3/02a	Nos	1	MEIL/SRB/SCC/S/PC/-014	RA-03C
22	3.2.3.1.2.9.b.4	11-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC2	P/02	Nos	1	MEIL/SRB/SCC/S/PC/-014	RA-03C
23	3.2.3.1.2.9.b.4	11-07-2022	PR-02	B224-000-EAR-DLA-0618	0	PC2	P/02a	Nos	1	MEIL/SRB/SCC/S/PC/-014	RA-03C
24	3.2.3.1.2.9.b.2	18-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC3	J/34	Nos	1	MEIL/SRB/SCC/S/PC/-015	RA-03C



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineer and Infrastructure Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**PIPE RACK - Measurement Sheet - 3.2.3.1.2.9.b.2**

S No	BBU Item Sl No	Date of casting	Location	Drawing Number	Rev No	Pile cap No	Grid	UoM	Qty	Report Number	Remarks
25	3.2.3.1.2.9.b.2	21-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC1	K/37	Nos	1	MEIL/SRB/SCC/S/PC/-016	RA-03C
26	3.2.3.1.2.9.b.2	21-07-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC3A	K/27	Nos	1	MEIL/SRB/SCC/S/PC/-017	RA-03C
27	3.2.3.1.2.9.b.2	23-07-2022	PR-01B	B224-000-EAR-DLA-0617	0	PC3A	K/28	Nos	1	MEIL/SRB/SCC/S/PC/-019	RA-03C
28	3.2.3.1.2.9.b.2	23-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC2	K/36	Nos	1	MEIL/SRB/SCC/S/PC/-020	RA-03C
29	3.2.3.1.2.9.b.2	27-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC1	J/35	Nos	1	MEIL/SRB/SCC/S/PC/-022	RA-03C
30	3.2.3.1.2.9.b.2	29-07-2022	PR-01A	B224-000-EAR-DLA-0617	0	PC1	K/35	Nos	1	MEIL/SRB/SCC/S/PC/-024	RA-03C



पं. श्रीधर  
वरिष्ठ प्रबन्धक  
कंजाम  
आर.

M. Srivastava  
Senior Manager  
Megha Engineering & Infra  
Project Manager  
HRRL, India



**PROJECT: EPCC-06 Package - Sulphur Recovery Block(SRB)**

**for Rajasthan Refinery Project**



**Client : HPCl Rajasthan Refinery Limited. (HRRRL)**

**PMC : Engineers India Limited. (EIL)**

**Contractor : Megha Engineering and Infrastructures Limited (MEIL)**

**Ref. IOA No : HRRRL/IOA/2021/21 (Dt: 23-08-2021)**

**RA Bill No. :2050/EPCC-6/CON/RAS**

**IMIR Status-Rebar**

SL.No	IMIR No	IMIR Date	UOM	8 MM	10 MM	12 MM	16 MM	20 MM	25 MM	32 MM	40 MM	Grand Total
1	MEIL/EPCC-06/SRB//IMIR/C/SN-001	08-Nov-21	MT	6.17	15.82	20.09						42.080
2	- MEIL/EPCC-06/SRB//IMIR/C/SN-004	09-Dec-21	MT									41.530
3	MEIL/EPCC-06/SRB//IMIR/C/SN-005	07-Dec-21	MT	42.12								42.120
4	MEIL/EPCC-06/SRB//IMIR/C/SN-006	08-Dec-21	MT				41.44					41.440
5	MEIL/EPCC-06/SRB//IMIR/C/SN-007	10-Dec-21	MT				19.04	14.92	8.66			42.620
6	MEIL/EPCC-06/SRB//IMIR/C/SN-008	13-Dec-21	MT									41.260
7	MEIL/EPCC-06/SRB//IMIR/C/SN-025	29-Dec-21	MT		15.085			27.05				42.135
8	MEIL/EPCC-06/SRB//IMIR/C/SN-026	29-Dec-21	MT		41.88			42.1				83.980
9	MEIL/EPCC-06/SRB//IMIR/C/SN-027	30-Dec-21	MT	15.36			68.42					83.780
10	MEIL/EPCC-06/SRB//IMIR/C/SN-029	03-Jan-22	MT				42.05					42.050
11	MEIL/EPCC-06/SRB//IMIR/C/SN-035	10-Jan-22	MT				165.79					165.785
12	MEIL/EPCC-06/SRB//IMIR/C/SN-036	10-Jan-22	MT		32.37			51.54				83.910
13	MEIL/EPCC-06/SRB//IMIR/C/SN-037	17-Jan-22	MT				83.915					83.915
14	MEIL/EPCC-06/SRB//IMIR/C/SN-062	08-Feb-22	MT		79.24							79.240
15	MEIL/EPCC-06/SRB//IMIR/C/SN-076	08-Feb-22	MT				35.464					35.464
16	MEIL/EPCC-06/SRB//IMIR/C/SN-091	24-Feb-22	MT				88.513					88.513
17	MEIL/EPCC-06/SRB//IMIR/C/SN-092	24-Feb-22	MT				99.19					99.190
18	MEIL/EPCC-06/SRB//IMIR/C/SN-093	24-Feb-22	MT				95.33					95.330
19	MEIL/EPCC-06/SRB//IMIR/C/SN-094	24-Feb-22	MT				38.996					38.996
20	MEIL/EPCC-06/SRB//IMIR/C/SN-107	15-Mar-22	MT					77.015				77.015
21	MEIL/EPCC-06/SRB//IMIR/C/SN-108	15-Mar-22	MT				23.677					23.677
22	MEIL/EPCC-06/SRB//IMIR/C/SN-109	17-Mar-22	MT				126.26					126.255
23	MEIL/EPCC-06/SRB//IMIR/C/SN-113	21-Mar-22	MT	48.93								48.930
24	MEIL/EPCC-06/SRB//IMIR/C/SN-115	22-Mar-22	MT		41.945			42.08				84.025
25	MEIL/EPCC-06/SRB//IMIR/C/SN-119	25-Mar-22	MT				41.11					41.110
26	MEIL/EPCC-06/SRB//IMIR/C/SN-128	29-Mar-22	MT	8.815		20.78	21.08	32.41	42.07			125.155
27	MEIL/EPCC-06/SRB//IMIR/C/SN-133	29-Mar-22	MT		40.671							40.671
28	MEIL/EPCC-06/SRB//IMIR/C/SN-138	31-Mar-22	MT				41.34					41.340
29	MEIL/EPCC-06/SRB//IMIR/C/SN-139	31-Mar-22	MT		41.98							41.980
30	MEIL/EPCC-06/SRB//IMIR/C/SN-144	01-Apr-22	MT				41.36					41.360
31	MEIL/EPCC-06/SRB//IMIR/C/SN-145	02-Apr-22	MT				20.5	20.93				41.430
32	MEIL/EPCC-06/SRB//IMIR/C/SN-151	06-Apr-22	MT		40.72							40.720
33	MEIL/EPCC-06/SRB//IMIR/C/SN-161	13-Apr-22	MT									13.910
34	MEIL/EPCC-06/SRB//IMIR/C/SN-165	16-Apr-22	MT				82.89	40.88				123.770
35	MEIL/EPCC-06/SRB//IMIR/C/SN-168	18-Apr-22	MT				76.66					76.660
36	MEIL/EPCC-06/SRB//IMIR/C/SN-174	26-Apr-22	MT				42.36					42.360
37	MEIL/EPCC-06/SRB//IMIR/C/SN-175	27-Apr-22	MT				17.21	66.75				83.960
38	MEIL/EPCC-06/SRB//IMIR/C/SN-177	29-Apr-22	MT				84.02					84.020
39	MEIL/EPCC-06/SRB//IMIR/C/SN-179	04-May-22	MT				35.21					35.210
40	MEIL/EPCC-06/SRB//IMIR/C/SN-181	02-May-22	MT					41.77				41.770
41	MEIL/EPCC-06/SRB//IMIR/C/SN-183	04-May-22	MT		4.87			22.53	9.07			36.470
42	MEIL/EPCC-06/SRB//IMIR/C/SN-184	04-May-22	MT	8.64		57.09						65.730
43	MEIL/EPCC-06/SRB//IMIR/C/SN-185	04-May-22	MT	8.65	6							22.690
44	MEIL/EPCC-06/SRB//IMIR/C/SN-186	04-May-22	MT		41.77		41.505					83.275
45	MEIL/EPCC-06/SRB//IMIR/C/SN-188	05-May-22	MT				41.17	83.98				125.150
46	MEIL/EPCC-06/SRB//IMIR/C/SN-190	05-May-22	MT									78.081
47	MEIL/EPCC-06/SRB//IMIR/C/SN-191	05-May-22	MT					1.96	71.54			73.500
48	MEIL/EPCC-06/SRB//IMIR/C/SN-192	05-May-22	MT					16.26	21.28			37.540
49	MEIL/EPCC-06/SRB//IMIR/C/SN-193	05-May-22	MT						37.03	29.37		66.400
50	MEIL/EPCC-06/SRB//IMIR/C/SN-194	06-May-22	MT	8.07		10.39	4.67					23.130
51	MEIL/EPCC-06/SRB//IMIR/C/SN-195	06-May-22	MT	40.15	1.9							42.050

Project : 2030

HRRRL Pachpadra

Rajasthan

India

MEIL

Engineering

Infrastructure

Services

Ltd.

Megha

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Ltd.

Project : 2030

HRRRL Pachpadra

Rajasthan

India

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Project : 2030

HRRRL Pachpadra

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**PROJECT: EPCC-06 Package - Sulphur Recovery Block(SRB)**  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRRL)

PWC: Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No.: 2050/EPCC-6/CON/RA3

SL. No	IMIR No	IMIR Date	UOM	IMIR Status-Rebar								Grand Total
				8 MM	10 MM	12 MM	16 MM	20 MM	25 MM	32 MM	40 MM	
52	MEIL/EPCC-06/SRB/IMIR/C/JSN-197	06-May-22	MT								41.44	41,440
53	MEIL/EPCC-06/SRB/IMIR/C/JSN-198	07-May-22	MT				42.12					42,120
54	MEIL/EPCC-06/SRB/IMIR/C/JSN-201	08-May-22	MT				24.31	4.15				41,930
55	MEIL/EPCC-06/SRB/IMIR/C/JSN-205	11-May-22	MT				8.18		42.12	32.06		82,360
56	MEIL/EPCC-06/SRB/IMIR/C/JSN-207	14-May-22	MT							50.3		50,300
57	MEIL/EPCC-06/SRB/IMIR/C/JSN-209	16-May-22	MT						50.57			50,570
58	MEIL/EPCC-06/SRB/IMIR/C/JSN-210	16-May-22	MT				83.81					83,810
59	MEIL/EPCC-06/SRB/IMIR/C/JSN-213	17-May-22	MT					51.19				51,190
60	MEIL/EPCC-06/SRB/IMIR/C/JSN-216	18-May-22	MT						105.52			105,520
61	MEIL/EPCC-06/SRB/IMIR/C/JSN-224	25-May-22	MT						14	30.3		44,300
62	MEIL/EPCC-06/SRB/IMIR/C/JSN-225	25-May-22	MT					39.89	8.09			47,980
63	MEIL/EPCC-06/SRB/IMIR/C/JSN-226	25-May-22	MT	41.91								41,910
64	MEIL/EPCC-06/SRB/IMIR/C/JSN-227	25-May-22	MT	10.03	30.02							40,050
65	MEIL/EPCC-06/SRB/IMIR/C/JSN-231	27-May-22	MT							40.08		40,080
66	MEIL/EPCC-06/SRB/IMIR/C/JSN-232	27-May-22	MT		41.46							41,460
67	MEIL/EPCC-06/SRB/IMIR/C/JSN-235	28-May-22	MT						29.95			29,950
<b>Total</b>				<b>MT</b>	<b>93</b>	<b>582</b>	<b>52</b>	<b>1117</b>	<b>1328</b>	<b>487</b>	<b>302</b>	<b>78</b>
<b>4038</b>												

Dr. Sridhar  
Project Manager





## PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB) for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22

RA Bill No. :2050/EPCC-6/CON/RA3

## Rebar Reconciliation Summary

Description of Items	Size	Received Qty	Consumption upto Previous Bill	This Bill Consumption	Balance in Stock	Remarks
Rebar	08 mm	93			93	
	10 mm	582	309	71	202	
	12 mm	52		22	30	
	16 mm	1117	750	163	203	
	20 mm	1328	822	163	343	
	25 mm	487		172	315	
	32 mm	302		141	160	
	40 mm	78		28	50	
Total Qty (MT)		4038	1881	760	1396	



MEIL

EIL



**PROJECT: EPCC-06 Package - Sulphur Recovery Block(SRB)**  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited (HRRRL)

PMC : Engineers India Limited (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No.:2050/EPCC-6/CON/RA3

**IMR Status for MS Liner Plate**

SL.No	Size	IMR NO	IMR Date	UOM	Received QTY	Remarks
1	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-002	15-Nov-21	MT	14.75	
2	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-003	02-Dec-21	MT	27.36	
3	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-018	16-Dec-21	MT	30.42	
4	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-021	24-Dec-21	MT	41.84	
5	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-022	25-Dec-21	MT	84.92	
6	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-028	03-Jan-22	MT	64.80	
7	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-040	13-Jan-22	MT	40.80	
8	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-042	17-Jan-22	MT	53.66	
9	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-046	21-Jan-22	MT	24.57	
10	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-049	29-Jan-22	MT	32.14	
11	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-050	29-Jan-22	MT	32.87	
12	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-052	02-Feb-22	MT	20.97	
13	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-053	02-Feb-22	MT	33.89	
14	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-054	02-Feb-22	MT	46.47	
15	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-055	02-Feb-22	MT	40.06	
16	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-059	07-Feb-22	MT	38.38	
17	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-071	02-Nov-22	MT	60.07	
18	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-075	15-Feb-22	MT	41.32	
19	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-081	21-Feb-22	MT	39.38	
20	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-082	21-Feb-22	MT	40.03	
21	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-083	21-Feb-22	MT	41.11	
22	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-084	21-Feb-22	MT	39.36	
23	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-086	22-Feb-22	MT	32.96	
24	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-088	23-Feb-22	MT	68.55	
25	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-089	21-Feb-22	MT	20.04	
26	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-090	24-Feb-22	MT	20.13	
27	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-097	25-Feb-22	MT	40.82	
28	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-099	26-Feb-22	MT	33.70	
29	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-114	21-Mar-22	MT	7.89	
30	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-116	23-Mar-22	MT	88.79	
31	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-120	26-Mar-22	MT	75.23	
32	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-121	26-Mar-22	MT	81.03	
33	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-122	26-Mar-22	MT	22.44	
34	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-125	28-Mar-22	MT	30.73	
35	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-126	28-Mar-22	MT	21.87	
36	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-130	28-Mar-22	MT	6.55	
37	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-131	29-Mar-22	MT	97.67	
38	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-132	29-Mar-22	MT	92.78	
39	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-142	01-Apr-22	MT	11.53	
40	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-143	01-Apr-22	MT	65.66	
41	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-146	02-Apr-22	MT	29.84	
42	6MM	MEIL/EPCC-06/SRB/IMR/C/SN-149	06-Apr-22	MT	28.82	





**PROJECT : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRRL)

PMC : Engineers India Limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No.:2050/EPCC-6/CON/RA3

**IMIR Status for MS Liner Plate**

SL No	Size	IMIR No	IMIR Date	UOM	Received QTY	Remarks
43	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-202	08-May-22	MT	29.15	
44	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-212	16-May-22	MT	57.54	
45	16MM	MEIL/EPCC-06/SRB/IMIR/C/SN-217	18-May-22	MT	20.85	
46	10MM	MEIL/EPCC-06/SRB/IMIR/C/SN-217	18-May-22	MT	44.38	
47	12MM	MEIL/EPCC-06/SRB/IMIR/C/SN-217	18-May-22	MT	43.31	
48	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-228	26-May-22	MT	40.82	
49	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-229	26-May-22	MT	41.97	
50	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-230	27-May-22	MT	40.57	
51	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-236	28-May-22	MT	40.72	
52	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-238	30-May-22	MT	34.30	
53	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-239	31-May-22	MT	58.22	
54	20MM	MEIL/EPCC-06/SRB/IMIR/C/SN-242	31-May-22	MT	5.01	
55	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-246	01-Jun-22	MT	40.49	
56	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-253	02-Jun-22	MT	48.60	
57	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-258	27-Jun-22	MT	41.16	
58	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-293	12-Jul-22	MT	41.76	
59	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-295	14-Jul-22	MT	84.44	
60	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-298	16-Jul-22	MT	70.02	
61	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-304	26-Jul-22	MT	41.63	
62	6MM	MEIL/EPCC-06/SRB/IMIR/C/SN-305	28-Jul-22	MT	41.67	
<b>This Bill Qty (B)</b>				MT	<b>2632.76</b>	



MEIL



EIL



## PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB) for Rajasthan Refinery Project



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

Measurement Period : 01-06-22 to 31-07-22

RA Bill No .:2050/EPCC-6/CON/RA3

Description of Items	Size	Received Qty	Consumption upto Previous Bill	This Bill Consumption	Balance in Stock	Remarks
MS Plate	06 mm	2519.21	1746.44	116.38	656.40	
	10 mm	44.38		3.81	40.57	
	12 mm	43.31		7.23	36.08	
	16 mm	20.85		3.06	17.79	
	20 mm	5.01		1.28	3.73	
	Total	2633	1746	132	755	



MEIL

EIL



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
for Rajasthan Refinery Project

Client: HPCL Rajasthan Refinery Limited. (HRRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. :2050/EPCC-6/CON/RA3

**IMIR Status for Cement**

SL.No	IMIR NO	IMIR Date	UOM	Received Qty.	Remarks
1	MEIL/EPCC-06/SRB/IMIR/C/SN-010	14-Dec-21	MT	29.76	
2	MEIL/EPCC-06/SRB/IMIR/C/SN-011	14-Dec-21	MT	34.35	
3	MEIL/EPCC-06/SRB/IMIR/C/SN-012	14-Dec-21	MT	40.13	
4	MEIL/EPCC-06/SRB/IMIR/C/SN-013	14-Dec-21	MT	34.3	
5	MEIL/EPCC-06/SRB/IMIR/C/SN-014	14-Dec-21	MT	29.27	
6	MEIL/EPCC-06/SRB/IMIR/C/SN-015	14-Dec-21	MT	40.46	
7	MEIL/EPCC-06/SRB/IMIR/C/SN-016	14-Dec-21	MT	39.91	
8	MEIL/EPCC-06/SRB/IMIR/C/SN-017	14-Dec-21	MT	30.94	
9	MEIL/EPCC-06/SRB/IMIR/C/SN-019	22-Dec-21	MT	189.47	
10	MEIL/EPCC-06/SRB/IMIR/C/SN-020	22-Dec-21	MT	181.89	
11	MEIL/EPCC-06/SRB/IMIR/C/SN-023	29-Dec-21	MT	243.66	
12	MEIL/EPCC-06/SRB/IMIR/C/SN-023A	29-Dec-21	MT	151.75	
13	MEIL/EPCC-06/SRB/IMIR/C/SN-030	04-Jan-22	MT	110.15	
14	MEIL/EPCC-06/SRB/IMIR/C/SN-031	04-Jan-22	MT	34.06	
15	MEIL/EPCC-06/SRB/IMIR/C/SN-033	05-Jan-22	MT	80.8	
16	MEIL/EPCC-06/SRB/IMIR/C/SN-034	10-Jan-22	MT	82.05	
17	MEIL/EPCC-06/SRB/IMIR/C/SN-038	11-Jan-22	MT	189.31	
18	MEIL/EPCC-06/SRB/IMIR/C/SN-039	11-Jan-22	MT	81.77	
19	MEIL/EPCC-06/SRB/IMIR/C/SN-044	21-Jan-22	MT	135.56	
20	MEIL/EPCC-06/SRB/IMIR/C/SN-047	24-Jan-22	MT	143.53	
21	MEIL/EPCC-06/SRB/IMIR/C/SN-048	27-Jan-22	MT	204.23	
22	MEIL/EPCC-06/SRB/IMIR/C/SN-056	02-Jan-22	MT	40.77	
23	MEIL/EPCC-06/SRB/IMIR/C/SN-057	02-Mar-22	MT	70.45	
24	MEIL/EPCC-06/SRB/IMIR/C/SN-058	02-Mar-22	MT	81.1	
25	MEIL/EPCC-06/SRB/IMIR/C/SN-060	08-Feb-22	MT	41.65	
26	MEIL/EPCC-06/SRB/IMIR/C/SN-062	11-Feb-22	MT	116.89	
27	MEIL/EPCC-06/SRB/IMIR/C/SN-063	08-Feb-22	MT	41.34	
28	MEIL/EPCC-06/SRB/IMIR/C/SN-064	08-Feb-22	MT	218.86	
29	MEIL/EPCC-06/SRB/IMIR/C/SN-070	10-Feb-22	MT	111.63	
30	MEIL/EPCC-06/SRB/IMIR/C/SN-072	13-Feb-22	MT	121.81	
31	MEIL/EPCC-06/SRB/IMIR/C/SN-073	14-Feb-22	MT	63.34	
32	MEIL/EPCC-06/SRB/IMIR/C/SN-074	14-Feb-22	MT	40.94	
33	MEIL/EPCC-06/SRB/IMIR/C/SN-077	17-Feb-22	MT	83.42	
34	MEIL/EPCC-06/SRB/IMIR/C/SN-078	17-Feb-22	MT	103.54	
35	MEIL/EPCC-06/SRB/IMIR/C/SN-079	19-Feb-22	MT	102.78	
36	MEIL/EPCC-06/SRB/IMIR/C/SN-085	21-Feb-22	MT	81.19	
37	MEIL/EPCC-06/SRB/IMIR/C/SN-085A	21-Feb-22	MT	123.9	
38	MEIL/EPCC-06/SRB/IMIR/C/SN-088	22-Feb-22	MT	131.52	
39	MEIL/EPCC-06/SRB/IMIR/C/SN-095	25-Feb-22	MT	29.17	
40	MEIL/EPCC-06/SRB/IMIR/C/SN-096	25-Feb-22	MT	155.51	
41	MEIL/EPCC-06/SRB/IMIR/C/SN-098	26-Feb-22	MT	140.29	
42	MEIL/EPCC-06/SRB/IMIR/C/SN-100	26-Feb-22	MT	109.84	
43	MEIL/EPCC-06/SRB/IMIR/C/SN-102	02-Feb-22	MT	55.1	
44	MEIL/EPCC-06/SRB/IMIR/C/SN-103	06-Mar-22	MT	249.47	
45	MEIL/EPCC-06/SRB/IMIR/C/SN-103A	09-Mar-22	MT	51.59	
46	MEIL/EPCC-06/SRB/IMIR/C/SN-104	10-Mar-22	MT	50.73	
47	MEIL/EPCC-06/SRB/IMIR/C/SN-105	12-Mar-22	MT	203.71	
48	MEIL/EPCC-06/SRB/IMIR/C/SN-106	15-Mar-22	MT	151.96	
49	MEIL/EPCC-06/SRB/IMIR/C/SN-110	17-Mar-22	MT	75.55	
50	MEIL/EPCC-06/SRB/IMIR/C/SN-112	19-Mar-22	MT	111.16	





**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**

Client: HPCL Rajasthan Refinery Limited. (HRRRL)

PMC : Engineers India limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. :2050/EPCC-6/CON/RA3

**IMIR Status for Cement**

SL.No	IMIR NO	IMIR Date	UOM	Received Qty.	Remarks
51	MEIL/EPCC-06/SRB/IMIR/C/SN-117	23-Mar-22	MT	46.2	
52	MEIL/EPCC-06/SRB/IMIR/C/SN-118	24-Mar-22	MT	114.74	
53	MEIL/EPCC-06/SRB/IMIR/C/SN-124	26-Mar-22	MT	81.82	
54	MEIL/EPCC-06/SRB/IMIR/C/SN-127	28-Mar-22	MT	157.43	
55	MEIL/EPCC-06/SRB/IMIR/C/SN-129	29-Mar-22	MT	71.69	
56	MEIL/EPCC-06/SRB/IMIR/C/SN-135	30-Mar-22	MT	162.95	
57	MEIL/EPCC-06/SRB/IMIR/C/SN-136	30-Mar-22	MT	110.35	
58	MEIL/EPCC-06/SRB/IMIR/C/SN-141	31-Mar-22	MT	150.95	
59	MEIL/EPCC-06/SRB/IMIR/C/SN-147	02-Apr-22	MT	81.03	
60	MEIL/EPCC-06/SRB/IMIR/C/SN-148	05-Apr-22	MT	103.94	
61	MEIL/EPCC-06/SRB/IMIR/C/SN-150	06-Apr-22	MT	146.74	
62	MEIL/EPCC-06/SRB/IMIR/C/SN-152	07-Apr-22	MT	146.67	
63	MEIL/EPCC-06/SRB/IMIR/C/SN-154	08-Apr-22	MT	40.76	
64	MEIL/EPCC-06/SRB/IMIR/C/SN-155	09-Apr-22	MT	70.99	
65	MEIL/EPCC-06/SRB/IMIR/C/SN-157	09-Apr-22	MT	29.76	
66	MEIL/EPCC-06/SRB/IMIR/C/SN-160	12-Apr-22	MT	47.9	
67	MEIL/EPCC-06/SRB/IMIR/C/SN-162	12-Apr-22	MT	81.06	
68	MEIL/EPCC-06/SRB/IMIR/C/SN-166	16-Apr-22	MT	169.92	
69	MEIL/EPCC-06/SRB/IMIR/C/SN-167	16-Apr-22	MT	48.06	
70	MEIL/EPCC-06/SRB/IMIR/C/SN-169	19-Apr-22	MT	150.58	
71	MEIL/EPCC-06/SRB/IMIR/C/SN-170	21-Apr-22	MT	239.22	
72	MEIL/EPCC-06/SRB/IMIR/C/SN-172	25-Apr-22	MT	100.83	
73	MEIL/EPCC-06/SRB/IMIR/C/SN-174	27-Apr-22	MT	102.12	
74	MEIL/EPCC-06/SRB/IMIR/C/SN-178	30-Apr-22	MT	121.39	
75	MEIL/EPCC-06/SRB/IMIR/C/SN-180	02-May-22	MT	144.48	
76	MEIL/EPCC-06/SRB/IMIR/C/SN-180A	02-May-22	MT	50.94	
77	MEIL/EPCC-06/SRB/IMIR/C/SN-182	02-May-22	MT	80.95	
78	MEIL/EPCC-06/SRB/IMIR/C/SN-188A	04-May-22	MT	49.44	
79	MEIL/EPCC-06/SRB/IMIR/C/SN-189	05-May-22	MT	248.97	
80	MEIL/EPCC-06/SRB/IMIR/C/SN-196	06-May-22	MT	154.69	
81	MEIL/EPCC-06/SRB/IMIR/C/SN-199	07-May-22	MT	156.26	
82	MEIL/EPCC-06/SRB/IMIR/C/SN-211	16-May-22	MT	40.87	
83	MEIL/EPCC-06/SRB/IMIR/C/SN-214	17-May-22	MT	81.45	
84	MEIL/EPCC-06/SRB/IMIR/C/SN-215	18-May-22	MT	82.41	
85	MEIL/EPCC-06/SRB/IMIR/C/SN-218	23-May-22	MT	34.66	
86	MEIL/EPCC-06/SRB/IMIR/C/SN-223	24-May-22	MT	82.13	
87	MEIL/EPCC-06/SRB/IMIR/C/SN-233	27-May-22	MT	99.6	
88	MEIL/EPCC-06/SRB/IMIR/C/SN-234	28-May-22	MT	40.19	
89	MEIL/EPCC-06/SRB/IMIR/C/SN-237	28-May-22	MT	158.57	
90	MEIL/EPCC-06/SRB/IMIR/C/SN-240	31-May-22	MT	86.11	
92	MEIL/EPCC-06/SRB/IMIR/C/SN-241	31-May-22	MT	80.23	
93	MEIL/EPCC-06/SRB/IMIR/C/SN-245	01-Jun-22	MT	52.13	
94	MEIL/EPCC-06/SRB/IMIR/C/SN-247	01-Jun-22	MT	50.78	
95	MEIL/EPCC-06/SRB/IMIR/C/SN-251	01-Jun-22	MT	50.15	
97	MEIL/EPCC-06/SRB/IMIR/C/SN-263	13-Jun-22	MT	80.58	
98	MEIL/EPCC-06/SRB/IMIR/C/SN-264	13-Jun-22	MT	81.03	
100	MEIL/EPCC-06/SRB/IMIR/C/SN-270	16-Jun-22	MT	41.06	
101	MEIL/EPCC-06/SRB/IMIR/C/SN-271	17-Jun-22	MT	76.09	
104	MEIL/EPCC-06/SRB/IMIR/C/SN-274	20-Jun-22	MT	45.86	
106	MEIL/EPCC-06/SRB/IMIR/C/SN-276	21-Jun-22	MT	40.7	

M.M. Mehta  
Project Manager  
HRRRL Project Manager  
Megha Engineering and Infrastructures Limited  
M.E.I.L



**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)**  
**for Rajasthan Refinery Project**

Ref. LOA No : HRRRL/LOA/2021/21 (Dt: 23-08-2021)

Client : HPCL Rajasthan Refinery Limited. (HRRRL)  
 PMC : Engineers India limited (EIL)  
 Contractor : Megha Engineering and Infrastructures Limited (MEIL)

RA Bill No. :2050/EPCC-6/CON/RA3

IMIR Status for Cement					RA Bill No. :2050/EPCC-6/CON/RA3
SL No	IMIR NO	IMIR Date	UOM	Received Qty.	Remarks
107	MEIL/EPCC-06/SRB/IMIR/C/SN-277	25-Jun-22	MT	30.23	
108	MEIL/EPCC-06/SRB/IMIR/C/SN-301	23-Jul-22	MT	41.33	
<b>Total Qty (PSC)</b>					<b>9905.55</b>
1	MEIL/EPCC-06/SRB/IMIR/C/SN-159	11-Apr-22	MT	81.15	
2	MEIL/EPCC-06/SRB/IMIR/C/SN-164	16-Apr-22	MT	69.47	
3	MEIL/EPCC-06/SRB/IMIR/C/SN-171	25-Apr-22	MT	41.07	
4	MEIL/EPCC-06/SRB/IMIR/C/SN-176	28-Apr-22	MT	40.52	
5	MEIL/EPCC-06/SRB/IMIR/C/SN-200	07-May-22	MT	37.99	
6	MEIL/EPCC-06/SRB/IMIR/C/SN-203	10-May-22	MT	33.75	
7	MEIL/EPCC-06/SRB/IMIR/C/SN-255	06-Jun-22	MT	45.06	
8	MEIL/EPCC-06/SRB/IMIR/C/SN-256	06-Jun-22	MT	139.92	
9	MEIL/EPCC-06/SRB/IMIR/C/SN-257	07-Jun-22	MT	45.56	
10	MEIL/EPCC-06/SRB/IMIR/C/SN-259	08-Jun-22	MT	86.82	
11	MEIL/EPCC-06/SRB/IMIR/C/SN-260	09-Jun-22	MT	104.7	
12	MEIL/EPCC-06/SRB/IMIR/C/SN-261	09-Jun-22	MT	41.05	
13	MEIL/EPCC-06/SRB/IMIR/C/SN-262	11-Jun-22	MT	45.6	
14	MEIL/EPCC-06/SRB/IMIR/C/SN-279	26-Jun-22	MT	70.67	
15	MEIL/EPCC-06/SRB/IMIR/C/SN-281	30-Jun-22	MT	29.63	
16	MEIL/EPCC-06/SRB/IMIR/C/SN-285	02-Jul-22	MT	40.76	
17	MEIL/EPCC-06/SRB/IMIR/C/SN-286	05-Jul-22	MT	29.76	
18	MEIL/EPCC-06/SRB/IMIR/C/SN-289	07-Jul-22	MT	81.38	
19	MEIL/EPCC-06/SRB/IMIR/C/SN-290	07-Jul-22	MT	45.58	
20	MEIL/EPCC-06/SRB/IMIR/C/SN-294	13-Jul-22	MT	40.12	
21	MEIL/EPCC-06/SRB/IMIR/C/SN-296	15-Jul-22	MT	40.04	
22	MEIL/EPCC-06/SRB/IMIR/C/SN-299	19-Jul-22	MT	40.03	
23	MEIL/EPCC-06/SRB/IMIR/C/SN-300	23-Jul-22	MT	150.08	
24	MEIL/EPCC-06/SRB/IMIR/C/SN-302	25-Jul-22	MT	79.19	
25	MEIL/EPCC-06/SRB/IMIR/C/SN-303	25-Jul-22	MT	114.26	
26	MEIL/EPCC-06/SRB/IMIR/C/SN-306	30-Jul-22	MT	39.54	
<b>Total Qty - OSC</b>					<b>1613.7</b>





**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. :2050/EPCC-6/CON/RA3

**Cement Reconciliation Details**

S.NO	Types of Cement	Received MT {A}	Consumption MT {B}	2% Wastage MT {C}	Balance In Stock D=A-(B+C)	Remarks
1	Total Qty - PSC	9905.55	9388.80	198.11	318.64	
2	Total Qty - OPC	1613.70	1546.82	32.27	34.60	





**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**RAW MATERIAL RECONCILIATION**

S.NO	Material Description	UoM	Received Quantity	Consumption upto previous Bill	Consumption in this Bill	1% Wastage	Balance Qty	Remarks
1	Sand Jalore/Kannana	MT	42447.23	16891.32	5061.59	424.47	20069.85	
2	Agre20 (Girli Kitpal)	MT	233927.07	14160.27	2040.06	2339.27	215387.47	
3	Agre10 (Girli Kitpal)	MT	18342.95	9369.11	3643.87	183.43	5146.54	
4	Admixture - Piling	MT	148.67	65.39	4.48	1.49	77.31	
5	Admixture - SCC	MT	37.35		18.86	0.37	18.12	
6	Bipolar (Shaliplast CI)	MT	134.40	86.21	5.91	1.34	40.94	
7	GGBS	MT	318.01		315.61	1.59	0.81	
8	Buildfine	MT	177.76		122.04	1.78	53.94	





**PROJECT: : EPCC-06 Package - Sulphur Recovery Block(SRB)  
for Rajasthan Refinery Project**



Client : HPCL Rajasthan Refinery Limited. (HRRL)

PMC : Engineers india limited. (EIL)

Contractor : Megha Engineering and Infrastructures Limited (MEIL)

Ref. LOA No : HRRL/LOA/2021/21 (Dt: 23-08-2021)

RA Bill No. : 2050/EPCC-6/CON/RA3

**PROTECTIVE COATING - RECONCILIATION**

S.NO	Material Description	UoM	Received Quantity	Consumption upto previous Bill	Consumption in this Bill	15% Wastage	Balance Qty	Remarks
1	HDPE	SQM	9000.00	-	3307.48	496.12	5196.40	
2	SBS	SQM	12000.00	-	3328.04	499.21	8172.75	
3	DIMPLE BOARD	SQM	4968.00	-	3398.04	509.71	1060.25	



# Megha Engineering & Infrastructures Ltd.

An ISO 9001-2015 Company

S-2, Technocrat Indl. Estate, Balanagar, Hyderabad-500037, TS, INDIA

Tel: +91-40-44336700 Fax: +91-40-44336600

E-mail: info@meil.in Visit us: www.meil.in U45202TG2006PLC050271

Letter No: EPCC-06/2050/CS-ES/B224/L/635

Date: 28-06-2022

To,  
The Resident Construction Manager  
M/s Engineers India Limited,  
HRRRL, Pachpadra, Barmer,  
Barmer

Kind attention: Mr. Sisir Kumar Mishra, RCM

Ref: EPCC 06 Package – Sulphur Recovery Block for Rajasthan Refinery project (RRP) of HPCL Rajasthan Refinery Limited (HRRRL) at Barmer, Rajasthan, India.  
LOA No: HRRRL/LOA/2021/21 Date: 23-08-2021

**Sub:** Submission of HR Compliance Documents for the month of May-22

Dear Sir,

With reference to above cited subject, we are hereby submitting the Monthly HR Compliance Documents for the month of May-22 as mentioned below

1. Form A - Workmen Register
2. Form B - Wages Register
3. Form C - Advance & Recovery Register
4. Form D - Attendance Register
5. EPF-ECR Challan & EPF Paid Receipt
6. Bank Statement

Thanking you and assuring the best of our services at all the times

RECEIVED  
प्राप्त किया । २:००

28 JUN 2022

HPCL Rajasthan Refinery Limited  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड

Yours faithfully,  
For Megha Engineering & Infrastructures Ltd.,

  
**Engineering & Infrastructure Services Ltd.**  
PROJECT: 2050  
HRRRL  
PACHPADRA  
BARMER  
(Authorized Signatory)

28 JUN 2022

11:05 AM

CC: HRRRL

# Megha Engineering & Infrastructures Ltd.

An ISO 9001-2015 Company

S-2, Technocrat Indl. Estate, Balanagar, Hyderabad-500037, TS, INDIA  
Tel: +91-40-44336700 Fax: +91-40-44336800  
E-mail: Info@meil.in Visit us: www.meil.in U45202TG2006PLC050271

Letter No: EPCC-06/2050/CS-ES/B224/L/ 712

Date: 27-07-2022

To,

**The Resident Construction Manager**  
M/s. Engineers India Limited,  
HRRRL, Pachpadra, Barmer,  
Barmer

Kind attention: Mr. Sisir Kumar Mishra, RCM

Ref: EPCC 06 Package - Sulphur Recovery Block for Rajasthan Refinery project (RRP) of Hpcl Rajasthan Refinery Limited (HRRRL) at Barmer, Rajasthan, India.  
LOA No: HRRRL/LOA/2021/21 Date: 23-08-2021

**Sub: Submission of HR Compliance Documents for the month of June-22**

Dear Sir,

With reference to above cited subject, we are hereby submitting the Monthly HR Compliance Documents for the month of June-22 as mentioned below

1. Form A - Workmen Register
2. Form B - Wages Register
3. Form C - Advance & Recovery Register
4. Form D - Attendance Register
5. EPF-ECR Challan & EPF Paid Receipt
6. Bank Statement

Thanking you and assuring the best of our services at all the times.

Yours faithfully,

For Megha Engineering & Infrastructures Ltd.,

(Authorized Signatory)



MEGHA ENGINEERING & INFRASTRUCTURES LTD.  
राजस्थान रिफार्मींग लिमिटेड

RECEIVED

27 JUL 2022

RECEIVED  
प्राप्त किया । १६.७.०

CC: HRRRL



**HPCL RAJASTHAN REFINERY PROJECT**  
Site Office: Village- SajiyaliRoopjiKanthwada and Smbhra, Tehsil-Pachpadra,  
District-Barmer-344032, Tel-02988-228130, Email-eihrrlsite.pmc@eil.co.in  
CIN No.L74899DL1965GOI004352

Ref. No.:EPCC-06/SRB/ES-CS/B224/L/ 13798

Date: **30<sup>th</sup>** March,2022

**M/s. Megha Engineering & Infrastructure Ltd,**  
C/o- HPCL Rajasthan Refinery Ltd,  
Rajasthan Refinery Project Site, Pachpadra  
Barmer, Rajasthan, PIN-344032.

**ध्यानाकर्षण/Kind Attn.: Mr. Biksh Kumar Das, RCM, MEIL**

**विषय/Sub:** Sulphur Recovery Block (EPCC-06 Package) for Rajasthan Refinery Project (RRP) of HPCL Rajasthan Refinery Limited (HRRL) at Rajasthan, India—Approval of Piling BBU - Reg.

**संदर्भ/ Ref :i) LOA No. : HRRL/LOA/2021/21 Dated: 23.08.2021  
ii) MEIL Letter No. - EPCC-06/2050/CS-ES/B224/L/0368 dated. 29.03.2022.**

प्रियमहोदय / Dear Sir,

This has reference to your letter under reference **Letter No. - EPCC-06/2050/CS-ES/B224/L/0368 dated. 29.03.2022** pertaining to submission of request for Approval of Piling Billing Break Up.

Please find the attached Approved copy of Piling BBU for further needful.

Your requested to submit the RA bill for further needful.

This is for your kind information& necessary action please.

भवदीय/ Very Truly Yours,



**(एसकेमिश्रा / S K Mishra)**

**आवासीयनिर्माणप्रबन्धक/ Resident Construction Manager**

**Encl:-A/a**

Cc: Shri PK Saha, CGM(P) / Shri DVRS Rama Rao, DGM (P), HRRL Site, Pachpadra  
: Shri FC Behera, GM(C), EIL, HRRL Site  
: NJB/PS, EIL, HRRL Site  
: RCM / MF.



“उत्कृष्टता के आधार हमारे कर्मी” “Delivering Excellence through People”

पंजीकृत कार्यालय:ई.आई.भवन,1,भीकाईजी कामा प्लेस, नई दिल्ली-110066

REGD OFFICE : EI BHAWAN, 1, BhikajiCama Place, New Delhi-110 066

दूरभाष/Phone : 011-26762121,फैक्स/Fax : 26192693



इंजीनियर्स  
ईंडिया लिमिटेड  
(A Govt. of India Undertaking)

Construction Billing Schedule  
(For Piling)  
Annexure-1 : CIVIL



Project:	EPCC-06 PACKAGE SULPHUR RECOVERY BLOCK											
LOA No:	HRRI/LOA/2021/21 Dated 23-08-2021											
PO No.												
SL No	Description of Activity	UOM	Anticipated Piling Qty	Rate/Pile	As per SP-3	Weightage						Amount
						INR	L1	Approved WBS	L2	As per SCC	L3	
C	Lumpsum prices for construction/Installation	LS			454280000	100%						
C.I	Civil (Inclusive of piling, civil & Site readiness)				953988000		21%		100%			
C.I.a	On completion of piling works on Pro-rata basis	Nos	4000	23,849.70	95398800					10%		
C.I.b	On completion of individual items of work on Pro-rata basis.				763190400					80%		
C.II	On issue of mechanical completion certificate	LS	1		47699400					5%		
C.III	On issue of commissioning certificates	LS	1		28619640					3%		
C.IV	On issue of performance test certificates	LS	1		9539880					1%		
C.V	On completion of all jobs	LS	1		9539880					1%		
NOTES:	<p>1. This billing break up is for piling portion only. Further break up of other line items will be done after approval of L-4 schedule.</p> <p>2. This billing break up is for releasing of payment for piling only.</p> <p>3. Any arithmetic error found in billing break up shall be corrected in due course, so as to match the contractual bottom line figure.</p> <p>4. Taxes &amp; Duty shall be payable as per tender conditions. It is contractors responsibility to submit all the back up documents required for processing of the invoices.</p> <p>5. The billing break up is for releasing payment for piling only and price allocated against the individual item shall not be considered for any additional deletion/ change order finalization in course of execution of the project.</p> <p>6. In case of delay in achieving the intermediate major milestones for EPCC-06, applicable PRS shall be deducted as per contract.</p>											



R  
श्रीधर प्रबंधक/SI Manager  
वरिष्ठ प्रबंधक/SI Manager  
इंजीनियर्स ईंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

July  
23/08/2021  
एन.जे. बर्मा  
सहायक महाप्रबंधक  
इंजीनियर्स ईंडिया लिमिटेड  
RRP-Barmer

23/08/2021  
Sisir Kumar Mishra  
Resident Construction Manager  
इंजीनियर्स ईंडिया लिमिटेड  
RRP-Barmer

July  
23/08/2021  
Asst. General Manager  
RRP-Barmer

**HPCL RAJASTHAN REFINERY PROJECT**  
 Site Office: Village- Sajiyali Roopji Kanthwada and Smbhra, Tehsil-Pachpadra,  
 District-Barmer-344032, Tel-02988-228130, [Email-eihrrlsite.pmc@eil.co.in](mailto:Email-eihrrlsite.pmc@eil.co.in)  
 CIN No.L74899DL1965GOI004352

Ref. No.: EPCC-06/SRB/ES-CS/B224/L/ 16266

Date: 22<sup>nd</sup> Aug, 2022

**M/s. Megha Engineering & Infrastructure Ltd,**  
 C/o- HPCL Rajasthan Refinery Ltd (HRRL),  
 Rajasthan Refinery Project Site, Pachpadra  
 Barmer, Rajasthan, PIN-344032

**ध्यानाकरण/Kind Attn.: Mr. M Muthiah, RCM**

**विषय/Sub: Sulphur Recovery Block (EPCC-06 Package) for Rajasthan Refinery Project (RRP) of HPCL Rajasthan Refinery Limited (HRRL) at Rajasthan, India- Approval of Construction BBU - reg.**

**संदर्भ/ Ref : (i) LOA No. : HRRL/LOA/2021/21 Dated: 23.08.2021**

प्रियमहोदय / Dear Sir,

This has the reference to M/s MEIL letter no EPCC-06/2050/CS-ES/B224/L/0726 dt. 02.08.2022 pertaining to the approval of Construction Billing Breakup for EPCC-06 (SRB).

The construction BBU has been reviewed by EIL and concurred by HRRL vide Letter no. HRRS-ES/EPCC-06/SRB/BBU Construction/22-307 dt.20.08.2022 subjected to the fulfillment of the following conditions:-

1. At any point of time, the cumulative percent payment made shall not exceed cumulative percent of actual physical progress of plant.
2. Taxes and Duties shall be payable as per Tender condition. It is the contractor's responsibility to submit all the backup documents required for the processing of the invoices.
3. MEIL to ensure that documents necessary for processing are enclosed along with the bill and soft copy of the bill submitted through electronic media as per Clause 95.0 of SCC.
4. MEIL to ensure Statutory Compliance are complied before submitting RA bills to EIL/HRRL.
5. MEIL to ensure STP permit along with challans and Local Content Certificate (PPLC) documents are enclosed along with bill.
6. The Billing Breakup is for releasing payment only and price allotted against the individual items, shall not be considered for any addition, deletion or change order finalization in course of execution of project.

This is for your kind information and necessary action.

**भवदीय/ Very Truly Yours,**



**(एसकेमिश्रा / S K Mishra)**

**आवासीयनिर्माणप्रबन्धक/ Resident Construction Manager**

Encl: As above



# Megha Engineering & Infrastructures Ltd.

An ISO 9001-2015 Company



S-2, Technocrat Indl. Estate, Balanagar, Hyderabad-500037, Telangana, INDIA

Tel: +91-40-44336700 Fax: +91-40-44336800

E-mail: info@meil.in Visit us: www.meil.in U45202TG2006PLC050271

Letter No: EPCC-06/2050/CS-ES/B224/L/0726

Date: 02<sup>nd</sup> August 2022

To,  
The Resident Construction Manager,  
M/s Engineers India Limited,  
HRRL, Pachpadra, Barmer.

Kind Attn: Mr. Sisir Kumar Mishra, RCM

*N.D.  
M.M.S  
S.R./DP/MMS  
Mr. S. K. Mishra  
02/08/2022*

Ref No.: EPCC - 06 Package - Sulphur Recovery Block for Rajasthan Refinery Project (RRP) of HPCL  
Rajasthan Refinery Limited (HRRL) at Pachpadra, Barmer, Rajasthan.

(LOA No.: HRRL/LOA/2021/21) Date: -23/08/2021

**Sub:** Submission of Updated Billing Breakup(Rev-4) for Construction of Sulphur Recovery Block for approval with Proposed Break Up.-Reg

Dear Sir,

With reference to the above subject, please find enclosed herewith updated Construction Billing Breakup (Rev-4) for SRB works at HRRL Project site approval with following proposed break up. This further billing break up has been initiated with an intention of better cash flow during the execution of project which will further support the project to achieve the targets and finance our sub-contractors.

Sr. No.	Work Description	% Break Up as per SCC	Further % Break Up Proposed By MEIL
1	Billing Break up: Construction Annex-II: Structural Work	On Erection, Alignment, Grouting & Painting etc. on Pro-rata basis – 30%	a) 18% on Erection incl. Bolt fixing on Pro-rata basis. b) 12% On Alignment including torquing, painting and grouting on Pro-rata basis.
2	Billing Break up: Construction Annex-III: Piping Work A/G Piping	On Completion of Erection and welding on Pro-rata basis – 40%	a) 10% Erection, preliminary Alignment with Fit up. b) 14% On completion of In-situ welding (Incl. radiography test), Supporting structure (saddles, corrosion pads)



			c) 16% on completion of final alignment including guide, cross guide all NDT PWHT of joint and supports, reshoots, repair, radiography after PWHT joints, MC of loops/lines including erection of valve except control valve, etc.
3	Billing Break up: Construction Annex-III: Piping Work U/G Piping	On Completion of Erection and welding on Pro-rata basis – 40%	a) 28% -excavation, laying and Field Welding. b) 12%- coating at field joints, holiday testing, painting & perlite insulation (wherever applicable) and backfilling.

In view of the above, we request you to consider above proposed break up and request you to accord approval.

Thanking you and assuring the best of our services at all time.

**Megha Engineering & Infrastructures Ltd.**



**Bikash Kumar Das**  
**Resident Construction Manager**  
**(Authorized Signatory)**

**Encl: as above**

**Copy to- Shri HRRL**



 <b>इंजीनियर्स इंडिया लिमिटेड</b> <b>ENGINEERS INDIA LIMITED</b>	<b>BILLING SCHEDULE FOR CONSTRUCTION</b>		 <b>Megha Engineering and Infrastructures Ltd.</b>	
	<b>CLIENT HPCL RAJASTHAN REFINERY LTD.</b>			Doc No. <b>MEIL/HRRL/EPCC-06- SRB/JP/C/0033</b>
EPCC 06 JOB NO B224	<b>PMC ENGINEERS INDIA LTD.</b>		Page 1 of 2	REV : 4
	<b>PROJECT SULPHUR RECOVERY BLOCK</b>			

## HPCL RAJASTHAN REFINERY LIMITED



इंजीनियर्स  
इंडिया लिमिटेड  
ENGINEERS  
INDIA LIMITED  
(A Govt. of India Undertaking)



### RAJASTHAN REFINERY PROJECT

### BARMER, RAJASTHAN

### JOB NO: B224

### PACKAGE NO: EPCC-06

Document Category	Document Review Status (by Owner/PMC)
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Review <input type="checkbox"/> Information	<input type="checkbox"/> 1. No Comments/Const. as per document <input type="checkbox"/> 2. Reviewed with comments <input type="checkbox"/> 3. Rejected 1- Resubmit <input type="checkbox"/> R Retained for Records <input type="checkbox"/> V Void
	Date: _____ Name: _____ <small>This approval does not absolve the contractual obligations of delivering a complete safe and efficiently operating units/facilities meetings of the contract.</small>

REV	DATE	PURPOSE	PREPARED BY	CHECKED/ REVIEWED BY	APPROVED BY
4	02-08-22	Issued For Review	MM	AVSK	RBR
3	21-07-22	Issued For Review	MM	AVSK	PNR
2	06-07-22	Issued For Review	MM	AVSK	PNR
1	30-03-22	Issued For Review	VK	AVSK	PNR
0	29-03-22	Issued For Review	VK	AVSK	PNR



1/10

## SUMMARY AS PER SP 03 FORM



JOB NO :	B224	CONTRACT REF NO :	LOA NO : HRRRI/LOA/2021/21
PROJECT TITLE :	RAJASTHAN REFINERY PROJECT (RRP)	CONTRACT DATE :	23-Aug-21
OWNER :	HPCL RAJASTHAN REFINERY LTD (HRRRI)	CONTRACT NAME :	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK
PMC :	ENGINEERS INDIA LTD (EIL)	BILLING SCHEDULE	
		REFERENCE NO :	

FORM-SP-3

**BREAK UP OF LUMPSUM PRICE**  
**Schedule of Lump-sum Price for Construction/Installation**

S. No.	DESCRIPTION	UNIT	SOLE BIDDER OR PRIME MEMBER (LEADER) OF CONSORTIUM		CONSORTIUM MEMBER (OTHER THAN LEADER)
			FOREIGN CURRENCY COMPONENT (IN USD/EURO)	INDIAN CURRENCY COMPONENT (IN INR)	
1	Construction, installation, Hook up & tie-ins, pre-commissioning, etc. and completion of work in all respects for LSTK Package including Transportation and site handling of material/equipments, supply of consumables, tools and tackles, field engineering services, Receipt, storage, conservation, preservation of FIM and contractor supplied items. Fabrication, construction, assembly, erection at site for all piping, civil, structural, architectural, mechanical, electrical and instrumentation works within battery limit, refractory, insulation, coating, painting, testing, etc. providing all temporary works/structures and equipment for completion, obtaining statutory approvals, final hook-up with owner facilities, pre-commissioning, commissioning, performance testing, guarantee runs, completing all the work in all respects to make system smooth, operable and handing over as per Bidding Document requirements and instructions of the Engineer In Charge.	L.S.	0	4,54,28,00,000	NOT APPLICABLE
2	Assistance services during plant Operation for a period of 6 Months after Commissioning of the unit as per the provisions of the bidding document (For details refer Note no.1, 2 & 3 below).	L.S.	0	6,84,00,000	NOT APPLICABLE
<b>Total Price for SP-3 {Sl. No. 1 + Sl. No. 2}</b>			0	4,61,12,00,000	NOT APPLICABLE





**इंजीनियर्स  
हरियाणा लिमिटेड**  
(एक राजसरकारी संस्था)  
Haryana Refinery & Petrochemicals Limited



**M&E**  
**meil**

JOB NO :	B224	CONTRACT REF NO :	LOA NO : HRRRL/LOA/2021/21
PROJECT TITLE :	RAJASTHAN REFINERY PROJECT (RRP)	CONTRACT DATE :	23-Aug-21
OWNER :	HPCL RAJASTHAN REFINERY LTD (HRRRL)	CONTRACT NAME :	EPC - 06 PACKAGE - SULPHUR RECOVERY BLOCK
PMC :	ENGINEERS INDIA LTD (EIL)	BILLING SCHEDULE	REFERENCE NO :

CLAUSE NO	DESCRIPTION	UNIT	Amount in INR	WEIGHTAGE	Remarks
3.2.3	Lumpsum price for Construction / Installation	LS	4,54,28,00,000.00	100.00%	
<b>Further Breakup of Construction / Installation</b>					
3.2.3.1	Civil Works	LS	95,39,88,000.00	21.00%	Refer Annexure - I for details
3.2.3.2	Structural Works	LS	40,88,52,000.00	9.00%	Refer Annexure - II for details
3.2.3.3.A	Piping	LS	1,36,28,40,000.00	30.00%	Refer Annexure - III for details
3.2.3.3.B	Insulation, Fire Proofing and Refractory	LS	9,08,56,000.00	2.00%	Refer Annexure - IV for details
3.2.3.3.C	Painting	LS	4,54,28,000.00	1.00%	Refer Annexure - V for details
3.2.3.3.D	Equipment	LS	81,77,04,000.00	18.00%	Refer Annexure - VI for details
3.2.3.3.E	Tanks	LS	27,25,68,000.00	6.00%	Refer Annexure - VII for details
3.2.3.4	Electrical & Plant Communication	LS	22,71,40,000.00	5.00%	Refer Annexure - VIII for details
3.2.3.5	Instrumentation	LS	27,25,68,000.00	6.00%	Refer Annexure - IX for details
3.2.3.6	Mechanical Completion & Pre-Commissioning	LS	4,54,28,000.00	1.00%	Refer Annexure - X for details
3.2.3.7	Commissioning, Start-Up & PGTR	LS	4,54,28,000.00	1.00%	Refer Annexure - XI for details
<b>TOTAL</b>			<b>4,54,28,00,000.00</b>	<b>100.00%</b>	

NOTES : Annexure - X and XI will be submitted later.



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**SRB BILLING SCHEDULE OF CONSTRUCTION**



**इंजीनियर्स  
इंडिया लिमिटेड**  
**ENGINEERS INDIA LIMITED**  
(A Govt of India Undertaking)



<b>JOB NO :</b>	<b>B224</b>	<b>CONTRACT REF NO :</b>	<b>LOA NO : HRRL/LOA/2021/21</b>
<b>PROJECT TITLE :</b>	<b>RAJASTHAN REFINERY PROJECT (RRP)</b>	<b>CONTRACT DATE :</b>	<b>23-Aug-21</b>
<b>OWNER :</b>	<b>HPCL RAJASTHAN REFINERY LTD (HRRL)</b>	<b>CONTRACT NAME :</b>	<b>EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK</b>
<b>PMC :</b>	<b>ENGINEERS INDIA LTD (EIL)</b>	<b>BILLING SCHEDULE REFERENCE NO :</b>	

**COMMENT RESOLUTION SHEET (CRS)**

<b>Sr.No</b>	<b>COMMENTS GIVEN BY EIL/HRRL</b>	<b>Action taken</b>	<b>Remarks</b>
1	Piling from all different areas merged into single heading	Incorporated	
2	Breakup for foundation of tagged equipments has not been covered in the BBU.	Incorporated	
3	Structural works (procurement, fabrication, erection) should be covered in the BBU.	Incorporated	Refer Annex-II
4	Excavation, PCC, Backfilling(Soil/Sand) should be covered in RCC line item.	Incorporated	
5	RCC foundations and equipment foundations should be quantified in numbers.	Incorporated	
6	Precast works should be quantified in numbers (Substructure and Superstructure)	Incorporated	
7	Pipe rack in-situ foundation work with socket and protective coating works to be quantified in numbers.	Incorporated	
8	Precast erection should be quantified in numbers.	Incorporated	
9	CRWS/OWS sump pits etc. to be quantified in numbers.	Incorporated	
10	Pre-casting & erection of catch basin, manholes, fire water trench etc. should be covered in line items and quantified in number.	Incorporated	
11	Fireproofing works should be covered in separate line item.	Incorporated	Refer Annex-IV
12	RCC Paving to be separated area wise in numbers.	Not Incorporated	
13	RCC, Structural works and Roof sheeting of Sulphur yard to be covered in separate line item.	Incorporated	
14	Building & Civil works.(SS-24& SRR-5)		
a)	• Excavation, PCC, Backfilling(Soil/Sand) should be covered in RCC line item.	Incorporated	
b)	• All line items should be quantified in numbers.	Incorporated	
c)	• Procurement & Installation of doors and windows to be covered in one line items.	Incorporated	
d)	• Transformer foundation with gates to be covered in one line items.	Incorporated	
e)	• Plinth protection with drain to be covered in one line item.	Incorporated	
f)	• SS-24 ground floor flooring to be covered in line item.	Incorporated	
g)	• SS-24 1st floor heavy duty flooring/battery room/insulation floor painting/ Tile flooring/stairs.	Incorporated	
h)	• Plumbing and sanitary works for SS-24 & SRR-5 to be covered in line items.	Incorporated	
i)	• Roof treatment works for SS-24 & SRR-5 to be covered in line items.	Incorporated	
j)	• False flooring and False ceiling should be covered in line items.	Incorporated	
15	Breakup for AG & UG piping (L2 weightage) would be 90% & 10% respectively.	Incorporated	



JOB NO :	B224	CONTRACT REF NO :	LOA NO : HRRL/LOA/2021/21
PROJECT TITLE :	RAJASTHAN REFINERY PROJECT (RRP)	CONTRACT DATE :	23-Aug-21
OWNER :	HPCL RAJASTHAN REFINERY LTD (HRRL)	CONTRACT NAME :	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK
PMC :	ENGINEERS INDIA LTD (EIL)	BILLING SCHEDULE REFERENCE NO :	

## COMMENT RESOLUTION SHEET (CRS)

Sr.No	COMMENTS GIVEN BY EIL/HRRL	Action taken	Remarks
16	Details for filter Tag no 120-G-0001A/B, as per equipment list, is missing in the BBU, whereas filter tag 120-G-1003 B & 120-G-2003 B mentioned in the BBU is not present in the equipment list. Please check & update accordingly.	Incorporated	
17	In case of AG piping.		
a)	Scope of AG piping shall be divided into a) CS/LTCS b)AS/SS c)IBR.	Not Incorporated	Further breakup will be submitted later.
b)	Payment term " on completion of erection and welding, on pro-rata basis" which is 40% of the AG piping can be further divided into <input checked="" type="checkbox"/> 10% against erection, preliminary alignment with fit-up <input checked="" type="checkbox"/> 14% on completion of in-situ welding (incl radiography test), supporting structure(saddles, corrosion pads). <input checked="" type="checkbox"/> 16% on completion of final alignment including guides, cross guides, all NDT, PWHT of joints and supports, reshoot, repair, radiography after PWHT joints, MC of loops/lines including erection of valves except valves, etc.	incorporated	
c)	Other Payment terms cannot be further divided without prior approval.	Noted	
18	In case of UG piping.		
a)	Payment term " on completion of erection and welding, on pro-rata basis" which is 40% of the UG piping can be further divided into <input checked="" type="checkbox"/> 28% against excavation, laying and field welding. <input checked="" type="checkbox"/> 12% against coating at field joints, holiday testing and backfilling.	Incorporated	
b)	Other Payment terms cannot be further divided without prior approval.	Noted	
19	In case of structural works.		
a)	Payment term " on erection alignment, grouting and painting etc." which is 30% of the structure work can be further divided into <input checked="" type="checkbox"/> 18% against erection <input checked="" type="checkbox"/> 12% against alignment, grouting & painting	Incorporated	
b)	Other Payment terms cannot be further divided without prior approval.	Noted	
20	Further breakup of insulation works shall be provided. Insulation of equipment shall be mentioned in nos. & insulation of AG/UG piping shall be mentioned in IM (Inch-meter).	Incorporated	
21	Scope of Painting for AG/UG pipes shall be mentioned in IM (inch-meter). It shall be further divided into Primer + intermediate & final coat.	Not Incorporated	Details will be submitted later.

## SRB BILLING SCHEDULE OF CONSTRUCTION



इंजीनियर्स  
इंडिया लिमिटेड  
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JOB NO :	B224	CONTRACT REF NO :	LOA NO : HRRL/LOA/2021/21
PROJECT TITLE :	RAJASTHAN REFINERY PROJECT (RRP)	CONTRACT DATE :	23-Aug-21
OWNER :	HPCL RAJASTHAN REFINERY LTD (HRRL)	CONTRACT NAME :	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK
PMC :	ENGINEERS INDIA LTD (EIL)	BILLING SCHEDULE REFERENCE NO :	

## COMMENT RESOLUTION SHEET (CRS)

Sr.No	COMMENTS GIVEN BY EIL/HRRL	Action taken	Remarks
22	Scope of painting of structure shall be included in the fabrication of structure.	Incorporated	
23	The scope of refractory material, if any, shall be included in the BBU.	Incorporated	
24	Detailed break up to be provided for each electrical item.	Not Incorporated	Details will be submitted later.
25	Electrical systems such as NIFPS, UPS, Battery charger, RTCC, CRP, ECS, Fire alarm, CP etc. needs to be included as a part of BBU in line with the contract documents.	Not Incorporated	Details will be submitted later.
26	Material quantity to be derived from approved drawings for BBU.	Not Incorporated	Quantities are taken from approved L4 schedule

**PROJECT NAME: EPCC-06 PACKAGE (SULPHUR RECOVERY BLOCK) AT PACHPADRA, BARMER DISTT., RAJASTHAN  
BARMER, RAJASTHAN, INDIA**



इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED  
(A Govt. of India Undertaking)

**CONSTRUCTION / INSTALLATION - BILLING BREAKUP**



**Doc No: MEIL/HRRL/EPCC-06-SRB/JP/C/0033**

<b>1</b>	The values and weightages mentioned in the Billing Schedule are tentative, purely to facilitate progress payments and shall not be reckoned for any other purpose whatsoever.
<b>2</b>	If required, Billing Schedule shall be revised two times only, one after achieving 50% overall Project progress and second time after achieving 90% Overall Project progress. Items/quantities mentioned in UoM "Ls" shall be converted to Nos/CUM/RM etc. based upon actual drawing quantities at the time of Billing Breakup revision. Till then Payment will be kept on hold.
<b>3</b>	Taxes & Duties shall be payable as per PO conditions. It is the Contractor's responsibility to submit all the backup documents required for processing of the invoices. "Payments will be made by the OWNER against Running Account (R.A.) Bills certified by the OWNER's Engineer-in-Charge/Site-in-Charge within 30 days from the date of receipt of complete and correct R.A. Bill from the CONTRACTOR by Engineer-in-Charge".
<b>4</b>	Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure.
<b>5</b>	The billing break-up is for releasing payment only and price allocated against the individual documents shall not be considered for any additional deletion/change order finalization in course of execution of the project.
<b>6</b>	The Billing Schedule is only for the purpose of billing. Any item if not specifically mentioned, however required to be supplied by Contractor to complete the Project, the same shall be supplied without any cost & time implication to the Client.
<b>7</b>	If any item in part/full quantity is not required to be executed, the same shall be claimed as "Unbilled Quantity" on completion of last item under that category(e.g. Civil/Structure in Construction Billing Breakup. It is binding on Contractor to complete 100% Construction to complete the work irrespective of quantity mentioned in the Billing Schedule.
<b>8</b>	In case of delay in achieving the intermediate major milestone of EPCC-06, applicable PRS shall be deducted as per the contract.
<b>9</b>	In case activities corresponding to Terms of Payment at Clause 3.2.3.2 (ii) , 3.2.3.3 A.(i) and 3.2.3.3 C. (i) & (ii) are being performed outside the refinery premises at Contractor's fabrication yard as per provisions of clause 1.8.2 of Annexure-XXVI of SCC, the respective payments shall be made against Bank Guarantee of equivalent amount valid till receipt and acceptance of such works at site plus 3 months claim period.
<b>10</b>	For claiming payment against works being performed at Contractor's fabrication yard as per provisions of clause 1.8.2 of Annexure-XXVI of SCC, Contractor has option to maintain with Owner a rolling BG of equivalent amount with validity upto mechanical completion.
<b>11</b>	For items indicated with UOM as Lot/LS, pro-rata payment is not allowed.
<b>12</b>	Whenever there is Positive Change in Scope(Qty), The payment shall be made on pro-rata basis.
<b>12i</b>	Whenever there is Positive Change in Scope(Qty), The payment shall be made on pro-rata basis. (e.g. If the Original Qty as per BBU is 100 Unit and Billing is done for 60 Units. Thereafter it is understood that total no. of Scope is modified to 150 Units, No payment will be released till 90 Units have been received/completed, balance will be released with assuming modified scope(150 units) as base in BBU. However any change/modification in BBU will be done as per contract(i.e. at 50% and 90% Overall Progress) ,pro-rata payment will be done as detailed given above and same to be followed till the Qty is not further modified.
<b>13</b>	If there is any negative Change in scope(Qty), The balance payment will be done in the last RA Bill of Construction. E.g. Any Item has Original Scope Taken as 100 Unit and actual only 70 Unit has been used, the payment will be done only for 70 Units, for balance 30 units the payment will be done in last RA bill of construction.



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इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

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Madhu Madhu Singh  
Sr. Manager  
EL

Dinesh Kumar  
Dinesh Kumar  
Engineer  
RRP-Barmer

Priyadarshi Dinesh Singh N  
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RRP-Barmer

D. Nitish Patel  
18/8/22  
DR. SAMRAJU 18/8/22  
राजस्थान रिफाइनरी लिमिटेड  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

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**CONSTRUCTION : CIVIL**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU	
						INR	L1	L2	L3	L4	L5	L6	
3.2.3.1	Civil (Including Site Readiness,Piling, Civil and its supply materials)					95,39,88,000.00	21%						95,39,88,000.00
3.2.3.1.1	On completion of Piling Works on Pro-rata basis		4000			9,53,98,800.00		10%					9,53,98,800.00
3.2.3.1.1.1	Piling		4000						100.00%				9,53,98,800.00
3.2.3.1.2	On Completion of individual Item of work on pro-rata basis					76,31,90,400.00		80%					76,31,90,400.00
3.2.3.1.2.1	RCC- Sub Structure / Fdns / Other Works with protective coating (wherever applicable)												
3.2.3.1.2.1.1	COLUMNS												
3.2.3.1.2.1.1.1	1 St Stage Sour Water Stripper -Raft Completion	Nos	1	118-C-0001						2.45%			1,86,98,164.80
3.2.3.1.2.1.1.2	1 St Stage Sour Water Stripper -Pedestal Completion	Nos	1	118-C-0001							5.00%		9,34,908.24
3.2.3.1.2.1.1.3	Sour Water Stripper-II-Raft Completion	Nos	1	119-C-0001							3.33%		6,23,272.16
3.2.3.1.2.1.1.4	Sour Water Stripper-II-Pedestal Completion	Nos	1	119-C-0001							5.00%		9,34,908.24
3.2.3.1.2.1.1.5	2 Nd Stage Sour Water Stripper -Raft Completion	Nos	1	118-C-0002							3.33%		6,23,272.16
3.2.3.1.2.1.1.6	2 Nd Stage Sour Water Stripper -Pedestal Completion	Nos	1	118-C-0002							5.00%		9,34,908.24
3.2.3.1.2.1.1.7	Mdea Regenerator-Raft Completion	Nos	1	121-C-0201							3.33%		6,23,272.16
3.2.3.1.2.1.1.8	Mdea Regenerator-Pedestal Completion	Nos	1	121-C-0201							5.00%		9,34,908.24
3.2.3.1.2.1.1.9	Amine Regenerator (Train-2)-Raft Completion	Nos	1	120-C-2002							3.33%		6,23,272.16
3.2.3.1.2.1.1.10	Amine Regenerator (Train-2)-Pedestal Completion	Nos	1	120-C-2002							5.00%		9,34,908.24
3.2.3.1.2.1.1.11	Quench Tower (Train-2)-Raft Completion	Nos	1	120-C-2002							3.33%		9,34,908.24
3.2.3.1.2.1.1.12	Quench Tower (Train-2)-Pedestal Completion	Nos	1	121-C-2101							3.33%		6,23,272.16
3.2.3.1.2.1.1.13	MDEA Absorber (Train-2)-Raft Completion	Nos	1	121-C-2101							5.00%		9,34,908.24
3.2.3.1.2.1.1.14	MDEA Absorber (Train-2)-Pedestal Completion	Nos	1	121-C-2201							3.33%		6,23,272.16
3.2.3.1.2.1.1.15	Quench Tower (Train-1)-Raft Completion	Nos	1	121-C-2201							5.00%		9,34,908.24
3.2.3.1.2.1.1.16	Quench Tower (Train-1)-Pedestal Completion	Nos	1	121-C-1101							3.33%		6,23,272.16
3.2.3.1.2.1.1.17	MDEA Absorber (Train-1)-Raft Completion	Nos	1	121-C-1101							5.00%		9,34,908.24
3.2.3.1.2.1.1.18	MDEA Absorber (Train-1)-Pedestal Completion	Nos	1	121-C-1201							3.33%		6,23,272.16
3.2.3.1.2.1.1.19	Amine Regenerator (Train-1)-Raft Completion	Nos	1	121-C-1201							5.00%		9,34,908.24
3.2.3.1.2.1.1.20	Amine Regenerator (Train-1)-Pedestal Completion	Nos	1	120-C-1002							3.33%		6,23,272.16
3.2.3.1.2.1.1.21	Flash Gas Absorber (Train-1)-Raft Completion	Nos	1	120-C-1002							5.00%		9,34,908.24
3.2.3.1.2.1.1.22	Flash Gas Absorber (Train-1)-Pedestal Completion	Nos	1	120-C-1001							3.33%		6,23,272.16
3.2.3.1.2.1.1.23	Flash Gas Absorber (Train-2)-Raft Completion	Nos	1	120-C-1001							5.00%		9,34,908.24
3.2.3.1.2.1.1.24	Flash Gas Absorber (Train-2)-Pedestal Completion	Nos	1	120-C-2001							5.00%		6,23,272.16
3.2.3.1.2.2	EXCHANGERS										3.33%		6,23,272.16
3.2.3.1.2.2.1	First Sulphur Condenser (Train 1 & 2)-Raft Completion									2.28%			
3.2.3.1.2.2.2	First Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-1001							2.86%		1,74,00,741.12
3.2.3.1.2.2.3	Second Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1	121-E-1001							1.90%		4,97,164.03
3.2.3.1.2.2.4	Second Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-1003							2.86%		3,31,442.69
3.2.3.1.2.2.5	Final Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1	121-E-1003							1.90%		4,97,164.03
3.2.3.1.2.2.6	Final Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-1005							2.86%		3,31,442.69
3.2.3.1.2.2.7	First Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1	121-E-1005							1.90%		4,97,164.03
3.2.3.1.2.2.8	First Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-2001							2.86%		3,31,442.69
3.2.3.1.2.2.9	Second Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1	121-E-2001							1.90%		4,97,164.03
3.2.3.1.2.2.10	Second Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-2003							2.86%		3,31,442.69
3.2.3.1.2.2.11	Final Sulphur Condenser (Train 1 & 2)-Raft Completion	Nos	1	121-E-2003							1.90%		4,97,164.03
3.2.3.1.2.2.12	Final Sulphur Condenser (Train 1 & 2)-Pedestal Completion	Nos	1	121-E-2005							2.86%		3,31,442.69
3.2.3.1.2.2.13	Lean Amine Trim Cooler (Train-1)-Raft Completion	Nos	1	121-E-2005							1.90%		4,97,164.03
3.2.3.1.2.2.14	Lean Amine Trim Cooler (Train-1)-Pedestal Completion	Nos	1	120-E-1003 A							2.86%		3,31,442.69
3.2.3.1.2.2.15	Lean Amine Trim Cooler (Train-1)-Raft Completion	Nos	1	120-E-1003 A							1.90%		4,97,164.03
3.2.3.1.2.2.16	Lean Amine Trim Cooler (Train-1)-Pedestal Completion	Nos	1	120-E-1003 B							2.86%		3,31,442.69
3.2.3.1.2.2.17	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1	120-E-1003 B							1.90%		4,97,164.03
											2.86%		3,31,442.69
													4,97,164.03

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 HPCL Rajasthan Refinery Limited

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU	
						INR	L1	L2	L3	L4	L5	L6	
3.2.3.1.2.3.26	Regenerator Reflux Pumps	Nos	2	121-P-0204A/B									9,24,403.65
3.2.3.1.2.3.27	MDEA Sump pumps	Nos	2	121-P-0205A/B									9,24,403.65
3.2.3.1.2.3.28	HP BFW Pumps	Nos	3	121-P-0301A/B/C									13,86,605.48
3.2.3.1.2.3.29	LP BFW Pumps	Nos	3	121-P-0302A/B/C									13,86,605.48
3.2.3.1.2.3.30	Acid Water Pumps	Nos	2	121-P-1001A/B									9,24,403.65
3.2.3.1.2.3.31	Acid Water Pumps	Nos	2	121-P-1002A/B									9,24,403.65
3.2.3.1.2.3.32	Acid Water Pumps	Nos	2	121-P-1003A/B									9,24,403.65
3.2.3.1.2.3.33	Sulphur transfer pumps	Nos	2	121-P-1004A/B									9,24,403.65
3.2.3.1.2.3.34	Incinerator Air Preheater Condensate pump	Nos	2	121-P-2004A/B									9,24,403.65
3.2.3.1.2.3.35	Quench Water Pumps	Nos	2	121-P-2005A/B									9,24,403.65
3.2.3.1.2.3.36	Rich MDEA Transfer Pumps	Nos	2	121-P-2101A/B									9,24,403.65
3.2.3.1.2.3.37	Acid Water Pumps	Nos	2	121-P-2201A/B									9,24,403.65
3.2.3.1.2.3.38	Acid Water Pumps	Nos	2	121-P-2001A/B									9,24,403.65
3.2.3.1.2.3.39	Acid Water Pumps	Nos	2	121-P-2002A/B									9,24,403.65
3.2.3.1.2.3.40	Sulphur transfer pumps	Nos	2	121-P-2003A/B									9,24,403.65
3.2.3.1.2.3.41	Incinerator Air Preheater Condensate pump	Nos	2	121-P-2004A/B									9,24,403.65
3.2.3.1.2.3.42	Quench Water Pumps	Nos	2	121-P-2005A/B									9,24,403.65
3.2.3.1.2.3.43	Rich MDEA Transfer Pumps	Nos	2	121-P-2101A/B									9,24,403.65
<b>3.2.3.1.2.4</b>	<b>VESSELS</b>												9,24,403.65
3.2.3.1.2.4.1	Acid Flare Knockout Drum-Raft Completion												1.94%
3.2.3.1.2.4.2	Acid Flare Knockout Drum-Pedestal Completion	Nos	1	120-V-0004									1,48,05,893.76
3.2.3.1.2.4.3	Amine Sump Drum-Raft Completion	Nos	1	120-V-0004									5,92,235.75
3.2.3.1.2.4.4	Amine Sump Drum-Pedestal Completion	Nos	1	120-V-0003									3,94,823.83
3.2.3.1.2.4.5	Instrument Air Ko Drum-Raft Completion	Nos	1	120-V-0003									5,92,235.75
3.2.3.1.2.4.6	Instrument Air Ko Drum-Pedestal Completion	Nos	1	121-V-0002									3,94,823.83
3.2.3.1.2.4.7	Amine Regenerator Reflux Drum (Train-1)-Raft Completion	Nos	1	121-V-0002									5,92,235.75
3.2.3.1.2.4.8	Amine Regenerator Reflux Drum (Train-1)-Pedestal Completion	Nos	1	120-V-1003									3,94,823.83
3.2.3.1.2.4.9	Close Blow Down-Raft Completion	Nos	1	120-V-1003									5,92,235.75
3.2.3.1.2.4.10	Close Blow Down-Pedestal Completion	Nos	1	118-V-0005									3,94,823.83
3.2.3.1.2.4.11	Sour Water Blow Down Drum-Raft Completion	Nos	1	118-V-0005									5,92,235.75
3.2.3.1.2.4.12	Sour Water Blow Down Drum-Pedestal Completion	Nos	1	119-V-0003									3,94,823.83
3.2.3.1.2.4.13	Aru Acid Gas Ko Drum (Train-2)-Raft Completion	Nos	1	119-V-0003									5,92,235.75
3.2.3.1.2.4.14	Aru Acid Gas Ko Drum (Train-2)-Pedestal Completion	Nos	1	121-V-2001									3,94,823.83
3.2.3.1.2.4.15	H2S Rich Sour Gas Ko Drum (Train-2)-Raft Completion	Nos	1	121-V-2001									5,92,235.75
3.2.3.1.2.4.16	H2S Rich Sour Gas Ko Drum (Train-2)-Pedestal Completion	Nos	1	121-V-2002									3,94,823.83
3.2.3.1.2.4.17	HP Condensate Drum-Raft Completion	Nos	1	121-V-2002									5,92,235.75
3.2.3.1.2.4.18	HP Condensate Drum-Pedestal Completion	Nos	1	121-V-0301									3,94,823.83
3.2.3.1.2.4.19	HP Blowdown Collector (Train-2)-Raft Completion	Nos	1	121-V-0301									5,92,235.75
3.2.3.1.2.4.20	HP Blowdown Collector (Train-2)-Pedestal Completion	Nos	1	121-V-2301									3,94,823.83
3.2.3.1.2.4.21	ATM Blow Down Collector (Train-2)-Raft Completion	Nos	1	121-V-2301									5,92,235.75
3.2.3.1.2.4.22	ATM Blow Down Collector (Train-2)-Pedestal Completion	Nos	1	121-V-2302									3,94,823.83
3.2.3.1.2.4.23	HP Blowdown Collector (Train-1)-Raft Completion	Nos	1	121-V-2302									5,92,235.75
3.2.3.1.2.4.24	HP Blowdown Collector (Train-1)-Pedestal Completion	Nos	1	121-V-1301									3,94,823.83
3.2.3.1.2.4.25	ATM Blowdown Collector (Train-1)-Raft Completion	Nos	1	121-V-1301									5,92,235.75
3.2.3.1.2.4.26	ATM Blowdown Collector (Train-1)-Pedestal Completion	Nos	1	121-V-1302									3,94,823.83
3.2.3.1.2.4.27	Skimmed Oil Drums -Raft Completion	Nos	1	121-V-1302									5,92,235.75
3.2.3.1.2.4.28	Skimmed Oil Drums -Pedestal Completion	Nos	1	118-V-0004A									3,94,823.83
3.2.3.1.2.4.29	Skimmed Oil Drums -Raft Completion	Nos	1	118-V-0004A									5,92,235.75
3.2.3.1.2.4.30	Skimmed Oil Drums -Pedestal Completion	Nos	1	118-V-0004B									3,94,823.83
<b>3.2.3.1.2.5</b>	<b>BLOWERS</b>												5,92,235.75
													3,94,823.83
													45,02,823.36

*(M/S)*

पी. श्रीधर  
विशेष प्रबंधक  
इंजीनियरिंग एंड इन्फ्रास्ट्रक्चर्च लिमिटेड  
आर.पी.एस.पी. बार्मर  
आर.पी.एस.पी. बार्मर

*(R.S.)*

R.S.  
Senior Manager

*(R.S.)*

इंजीनियरिंग एंड इन्फ्रास्ट्रक्चर्च लिमिटेड  
आर.पी.एस.पी. बार्मर

FO: GENERAL  
Project Manager (Construction)  
H.P.C.L. Barmer  
इंजीनियरिंग एंड इन्फ्रास्ट्रक्चर्च लिमिटेड  
आर.पी.एस.पी. बार्मर

D. Nitish Reddy

DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी सिपिइड  
HPCL Rajasthan Refinery Limited

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

## CONSTRUCTION : CIVIL

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU	
						INR	L1	L2	L3	L4	L5	L6	
3.2.3.1.2.2.18	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1	120-E-1001A									
3.2.3.1.2.2.19	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1	120-E-1001B									1.90%
3.2.3.1.2.2.20	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1	120-E-1001B									2.86%
3.2.3.1.2.2.21	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1	120-E-1001C									1.90%
3.2.3.1.2.2.22	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1	120-E-1001C									2.86%
3.2.3.1.2.2.23	Rich/Lean Amine Exchangers (Train-1)-Raft Completion	Nos	1	120-E-1001D									1.90%
3.2.3.1.2.2.24	Rich/Lean Amine Exchangers (Train-1)-Pedestal Completion	Nos	1	120-E-1001D									2.86%
3.2.3.1.2.2.25	Hydrogenation Cooler ( Train-1 & 2 )-Raft Completion	Nos	1	120-E-1001D									1.90%
3.2.3.1.2.2.26	Hydrogenation Cooler ( Train-1 & 2 )-Pedestal Completion	Nos	1	121-E-2102									2.86%
3.2.3.1.2.2.27	Blow Down Cooler ( Train-1 & 2 )-Raft Completion	Nos	1	121-E-2102									1.90%
3.2.3.1.2.2.28	Blow Down Cooler ( Train-1 & 2 )-Pedestal Completion	Nos	1	121-E-2301									2.86%
3.2.3.1.2.2.29	Hydrogenation Cooler ( Train-1 & 2 )-Raft Completion	Nos	1	121-E-2301									1.90%
3.2.3.1.2.2.30	Hydrogenation Cooler ( Train-1 & 2 )-Pedestal Completion	Nos	1	121-E-1102									2.86%
3.2.3.1.2.2.31	Blow Down Cooler ( Train-1 & 2 )-Raft Completion	Nos	1	121-E-1102									1.90%
3.2.3.1.2.2.32	Blow Down Cooler ( Train-1 & 2 )-Pedestal Completion	Nos	1	121-E-1301									2.86%
3.2.3.1.2.2.33	Rich/Lean Mdea Exchangers-Raft Completion	Nos	1	121-E-1301									1.90%
3.2.3.1.2.2.34	Rich/Lean Mdea Exchangers-Pedestal Completion	Nos	1	119-E-0001 A/B									2.86%
3.2.3.1.2.2.35	Stripped Water Cooler-Raft Completion	Nos	1	119-E-0001 A/B									1.90%
3.2.3.1.2.2.36	Stripped Water Cooler-Pedestal Completion	Nos	1	119-E-0003 A/B									2.86%
3.2.3.1.2.2.37	1 St Stage Feed 2 Nd Stage Bottom Exchanger-Raft Completion	Nos	1	119-E-0003 A/B									1.90%
3.2.3.1.2.2.38	1 St Stage Feed 2 Nd Stage Bottom Exchanger-Pedestal Completion	Nos	1	118-E-0005 A/B									2.86%
3.2.3.1.2.2.39	1 St Stage Feed / 1st Stage Bottom Exchanger-Raft Completion	Nos	1	118-E-0005 A/B									1.90%
3.2.3.1.2.2.40	1 St Stage Feed / 1st Stage Bottom Exchanger-Pedestal Completion	Nos	1	118-E-0001 A/B									2.86%
3.2.3.1.2.2.41	Stripper Water Cooler-Raft Completion	Nos	1	118-E-0001 A/B									1.90%
3.2.3.1.2.2.42	Stripper Water Cooler-Pedestal Completion	Nos	1	118-E-0004									2.86%
<b>3.2.3.1.2.3</b>	<b>PUMPS</b>												1.90%
3.2.3.1.2.3.1	Sour water transfer pumps												5.39%
3.2.3.1.2.3.2	Stripper feed pumps	Nos	2	118-P-0001A/B									2.25%
3.2.3.1.2.3.3	Stripper water pumps	Nos	2	118-P-0002A/B									2.25%
3.2.3.1.2.3.4	1st Stage pump around pumps	Nos	2	118-P-0003A/B									2.25%
3.2.3.1.2.3.5	2nd Stage pump around pumps	Nos	2	118-P-0004A/B									2.25%
3.2.3.1.2.3.6	Closed Blow Down pumps	Nos	2	118-P-0006A/B									2.25%
3.2.3.1.2.3.7	Sour water transfer pumps	Nos	2	118-P-0007A/B									2.25%
3.2.3.1.2.3.8	Stripper feed pumps	Nos	2	119-P-0001A/B									2.25%
3.2.3.1.2.3.9	Stripper water pumps	Nos	2	119-P-0002A/B									2.25%
3.2.3.1.2.3.10	pump around pumps	Nos	2	119-P-0003A/B									2.25%
3.2.3.1.2.3.11	Sour water blow down pumps	Nos	2	119-P-0004A/B									2.25%
3.2.3.1.2.3.12	Lean Amine export- I pumps	Nos	2	119-P-0005A/B									2.25%
3.2.3.1.2.3.13	Lean Amine export- II pumps	Nos	2	120-P-0001A/B									2.25%
3.2.3.1.2.3.14	Amine sump pumps	Nos	2	120-P-0002A/B									2.25%
3.2.3.1.2.3.15	Acid flare KOD pumps	Nos	2	120-P-0003A/B									2.25%
3.2.3.1.2.3.16	Rich Amine pumps	Nos	2	120-P-0004A/B									2.25%
3.2.3.1.2.3.17	Amine Regenerator Reflux pumps	Nos	2	120-P-1001A/B									2.25%
3.2.3.1.2.3.18	Lean Amine transfer pumps	Nos	2	120-P-1002A/B									2.25%
3.2.3.1.2.3.19	Rich Amine pumps	Nos	2	120-P-1003A/B									2.25%
3.2.3.1.2.3.20	Amine Regenerator Reflux pumps	Nos	2	120-P-2001A/B									2.25%
3.2.3.1.2.3.21	Lean Amine transfer pumps	Nos	2	120-P-2002A/B									2.25%
3.2.3.1.2.3.22	Sulphur storage pumps	Nos	2	120-P-2003A/B									2.25%
3.2.3.1.2.3.23	Rich MDEA Circulation Pumps	Nos	2	121-P-0001A/B									2.25%
3.2.3.1.2.3.24	Lean MDEA Circulation Pumps	Nos	2	121-P-0201A/B									2.25%
3.2.3.1.2.3.25	Lean MDEA Feed Pumps	Nos	3	121-P-0202A/B/C									2.25%
													3.37%
													13,86,605.48

(MM) 2020  
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PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU
						L1	L2	L3	L4	L5	L6	
3.2.3.1.2.5.1	Main Blowers - Train 1				INR							
3.2.3.1.2.5.2	Incinerator Blowers - Train 1	Nos	2	121-K-1001A/B								
3.2.3.1.2.5.3	Main Blowers - Train 2	Nos	2	121-K-1002A/B						25.00%		
3.2.3.1.2.5.4	Incinerator Blowers - Train 2	Nos	2	121-K-2001A/B						25.00%		
3.2.3.1.2.5.5		Nos	2	121-K-2002A/B						25.00%		
<b>3.2.3.1.2.6</b>	<b>FILTERS</b>											
3.2.3.1.2.6.1	Lean Amine Cartridge Filter-Raft Completion	Nos	2	120-G-1002A/B						0.10%		
3.2.3.1.2.6.2	Lean Amine Cartridge Filter-Pedestal Completion	Nos	2	120-G-1002A/B						4.80%		
3.2.3.1.2.6.3	Carbon Bed Filter-Raft Completion	Nos	2	120-G-1003A/B						3.20%		
3.2.3.1.2.6.4	Carbon Bed Filter-Pedestal Completion	Nos	2	120-G-1003A/B						4.80%		
3.2.3.1.2.6.5	Polishing Filters-Raft Completion	Nos	2	120-G-1004A/B						3.20%		
3.2.3.1.2.6.6	Polishing Filters-Pedestal Completion	Nos	2	120-G-1004A/B						4.80%		
3.2.3.1.2.6.7	Lean Amine Cartridge Filter-Raft Completion	Nos	2	120-G-2002A/B						3.20%		
3.2.3.1.2.6.8	Lean Amine Cartridge Filter-Pedestal Completion	Nos	2	120-G-2002A/B						4.80%		
3.2.3.1.2.6.9	Carbon Bed Filter-Raft Completion	Nos	2	120-G-2002A/B						4.80%		
3.2.3.1.2.6.10	Carbon Bed Filter-Pedestal Completion	Nos	2	120-G-2003A/B						3.20%		
3.2.3.1.2.6.11	Polishing Filters-Raft Completion	Nos	2	120-G-2003A/B						4.80%		
3.2.3.1.2.6.12	Polishing Filters-Pedestal Completion	Nos	2	120-G-2004A/B						3.20%		
3.2.3.1.2.6.13	Quench Water Filters-Raft Completion	Nos	2	120-G-2004A/B						4.80%		
3.2.3.1.2.6.14	Quench Water Filters-Pedestal Completion	Nos	2	121-G-2101A/B						3.20%		
3.2.3.1.2.6.15	Rich MDEA Filters-Raft Completion	Nos	2	121-G-2101A/B						4.80%		
3.2.3.1.2.6.16	Rich MDEA Filters-Pedestal Completion	Nos	2	121-G-2201A/B						3.20%		
3.2.3.1.2.6.17	Quench Water Filters-Raft Completion	Nos	2	121-G-2201A/B						4.80%		
3.2.3.1.2.6.18	Quench Water Filters-Pedestal Completion	Nos	2	121-G-1101A/B						3.20%		
3.2.3.1.2.6.19	Rich MDEA Filters-Raft Completion	Nos	2	121-G-1101A/B						4.80%		
3.2.3.1.2.6.20	Rich MDEA Filters-Pedestal Completion	Nos	2	121-G-1201A/B						3.20%		
3.2.3.1.2.6.21	Lean MDEA Polishing Filters-Raft Completion	Nos	2	121-G-1201A/B						4.80%		
3.2.3.1.2.6.22	Lean MDEA Polishing Filters-Pedestal Completion	Nos	2	121-G-0203A/B						3.20%		
3.2.3.1.2.6.23	Lean MDEA Carbon Filters-Raft Completion	Nos	2	121-G-0203A/B						4.80%		
3.2.3.1.2.6.24	Lean MDEA Carbon Filters-Pedestal Completion	Nos	1	121-G-0202						3.20%		
3.2.3.1.2.6.25	Lean MDEA Particle Filters-Raft Completion	Nos	1	121-G-0202						2.40%		
3.2.3.1.2.6.26	Lean MDEA Particle Filters-Pedestal Completion	Nos	2	121-G-0201A/B						1.60%		
<b>3.2.3.1.2.7</b>	<b>TANKS</b>	<b>Nos.</b>										
3.2.3.1.2.7.1	Stripper Feed Tanks (Fixed Dome Roof) - Raft Completion	Nos.								3.20%		
3.2.3.1.2.7.2	Stripper Feed Tanks (Fixed Dome Roof) - Pedestal Completion	Nos	1	118-T-0001A								
3.2.3.1.2.7.3	Stripper Feed Tanks (Fixed Dome Roof) - Raft Completion	Nos	1	118-T-0001A						12.79%		
3.2.3.1.2.7.4	Stripper Feed Tanks (Fixed Dome Roof) - Pedestal Completion	Nos	1	118-T-0001B						8.53%		
3.2.3.1.2.7.5	Stripper Feed Tanks- Raft Completion	Nos	1	118-T-0001B						12.79%		
3.2.3.1.2.7.6	Stripper Feed Tanks - Pedestal Completion	Nos	1	119-T-0001						8.53%		
3.2.3.1.2.7.7	Amine Storage Tanks (Conical Fixed Roof)- Raft Completion	Nos	1	119-T-0001						10.20%		
3.2.3.1.2.7.8	Amine Storage Tanks (Conical Fixed Roof)- Pedestal Completion	Nos	1	120-T-0001A						6.80%		
3.2.3.1.2.7.9	Amine Storage Tanks (Conical Fixed Roof) - Raft Completion	Nos	1	120-T-0001A						7.80%		
3.2.3.1.2.7.10	Amine Storage Tanks (Conical Fixed Roof)- Pedestal Completion	Nos	1	120-T-0001B						5.20%		
3.2.3.1.2.7.11	Sulphur Storage Tank- Raft Completion	Nos	1	120-T-0001B						7.80%		
3.2.3.1.2.7.12	Sulphur Storage Tank - Pedestal Completion	Nos	1	121-T-0001						5.20%		
3.2.3.1.2.7.13	MDEA Storage Tank - Raft Completion	Nos	1	121-T-0001						4.86%		
3.2.3.1.2.7.14	MDEA Storage Tank - Pedestal Completion	Nos	1	121-T-0201						3.24%		
<b>3.2.3.1.2.8</b>	<b>PACKAGES</b>											
3.2.3.1.2.8.1	Incinerator Package - Stack	Nos	1	121-LS-1001						6.30%		
3.2.3.1.2.8.2	Incinerator Package - Stack	Nos	1	121-LS-2001						50.00%		
										50.00%		

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 Deputy General Manager - Projects  
 एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
 HPCL Rajasthan Refinery Limited

D. Nitish Patel  
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 HPCL Rajasthan Refinery Limited

**CONSTRUCTION : CIVIL**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	INR	L1	L2	L3	L4	Weightage	Amount as BBU
												INR
3.2.3.1.2.9	<b>TS &amp; PIPE RACK</b>											
3.2.3.1.2.9.a	TS	Nos.	220								5.50%	
3.2.3.1.2.9.a.1	TS-01 - Raft Completion	Nos	11								3.73%	
3.2.3.1.2.9.a.2	TS-01 - Pedestal Completion	Nos	11								2.48%	
3.2.3.1.2.9.a.3	TS-02 - Raft Completion	Nos	11								5.69%	
3.2.3.1.2.9.a.4	TS-02 - Pedestal Completion	Nos	11								3.79%	
3.2.3.1.2.9.a.5	TS-03 - Raft Completion	Nos	11								5.69%	
3.2.3.1.2.9.a.6	TS-03 - Pedestal Completion	Nos	11								23,88,656.56	
3.2.3.1.2.9.a.7	TS-04 - Raft Completion	Nos	27								3.79%	
3.2.3.1.2.9.a.8	TS-04 - Pedestal Completion	Nos	27								8.95%	
3.2.3.1.2.9.a.9	TS-05 - Raft Completion	Nos	27								5.96%	
3.2.3.1.2.9.a.10	TS-05 - Pedestal Completion	Nos	27								8.95%	
3.2.3.1.2.9.a.11	TS-06 - Raft Completion	Nos	6								5.96%	
3.2.3.1.2.9.a.12	TS-06 - Pedestal Completion	Nos	6								2.91%	
3.2.3.1.2.9.a.13	TS-07 - Raft Completion	Nos	8								1.94%	
3.2.3.1.2.9.a.14	TS-07 - Pedestal Completion	Nos	8								6.16%	
3.2.3.1.2.9.a.15	TS-08 - Raft Completion	Nos	2								4.11%	
3.2.3.1.2.9.a.16	TS-08 - Pedestal Completion	Nos	2								1.40%	
3.2.3.1.2.9.a.17	TS-09 - Raft Completion	Nos	2								0.93%	
3.2.3.1.2.9.a.18	TS-09 - Pedestal Completion	Nos	2								2.33%	
3.2.3.1.2.9.a.19	TS-10 - Raft Completion	Nos	2								1.55%	
3.2.3.1.2.9.a.20	TS-10 - Pedestal Completion	Nos	2								3.16%	
3.2.3.1.2.9.a.21	TS-11 - Raft Completion	Nos	2								2.11%	
3.2.3.1.2.9.a.22	TS-11 - Pedestal Completion	Nos	2								3.16%	
3.2.3.1.2.9.a.23	TS-12 - Raft Completion	Nos	1								2.11%	
3.2.3.1.2.9.a.24	TS-12 - Pedestal Completion	Nos	1								7.90%	
3.2.3.1.2.9.b	<b>PIPE RACK</b>	Nos.	280								8.50%	
3.2.3.1.2.9.b.1	PR-01 - Raft Completion	Nos	56								22.16%	
3.2.3.1.2.9.b.2	PR-01 - Pedestal Completion	Nos	56								14.78%	
3.2.3.1.2.9.b.3	PR-02 - Raft Completion	Nos	6								6.52%	
3.2.3.1.2.9.b.4	PR-02 - Pedestal Completion	Nos	6								4.34%	
3.2.3.1.2.9.b.5	PR-03 - Raft Completion	Nos	5								3.55%	
3.2.3.1.2.9.b.6	PR-03 - Pedestal Completion	Nos	5								2.37%	
3.2.3.1.2.9.b.7	PR-04 - Raft Completion	Nos	12								4.74%	
3.2.3.1.2.9.b.8	PR-04 - Pedestal Completion	Nos	12								3.16%	
3.2.3.1.2.9.b.9	PR-05 - Raft Completion	Nos	13								3.16%	
3.2.3.1.2.9.b.10	PR-05 - Pedestal Completion	Nos	13								3.58%	
3.2.3.1.2.9.b.11	PR-06 - Raft Completion	Nos	22								2.39%	
3.2.3.1.2.9.b.12	PR-06 - Pedestal Completion	Nos	22								8.59%	
3.2.3.1.2.9.b.13	PR-07 - Raft Completion	Nos	8								5.73%	
3.2.3.1.2.9.b.14	PR-07 - Pedestal Completion	Nos	8								3.58%	
3.2.3.1.2.9.b.15	PR-08 - Raft Completion	Nos	2								2.39%	
3.2.3.1.2.9.b.16	PR-08 - Pedestal Completion	Nos	2								1.18%	
3.2.3.1.2.9.b.17	PR-09 - Raft Completion	Nos	10								0.79%	
3.2.3.1.2.9.b.18	PR-09 - Pedestal Completion	Nos	10								3.95%	
3.2.3.1.2.9.b.19	PR-10 - Raft Completion	Nos	6								2.63%	
3.2.3.1.2.9.b.20	PR-10 - Pedestal Completion	Nos	6								2.15%	
3.2.3.1.2.10	<b>UG PIT RCC WORKS</b>										1.43%	
3.2.3.1.2.10.1	Valve Pits	Nos.	12								6.00%	
											3.00%	
											4,57,91,424.00	
											13,73,742.72	

Y/2022  
28/08/2022  
FC BEERA  
Civil Manager (Contractor)  
HRRL Barmer  
Engineers India Limited

D. Natesh Reddy

DRONAMRAJU RAMARAO VRS  
Deputy General Manager - Projects  
एचरीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

(M.M.SANT)  
Bhushan Kumar  
BINAY KUNAR  
विनय कुमार  
इंजीनियर  
इंजीनियरिंग एंड इन्फ्रास्ट्रक्चर्च लिमिटेड  
पृष्ठा १० से ११  
Project - 2050  
HRRL Pachpadra

Binay  
BINAY KUNAR  
इंजीनियर  
इंजीनियरिंग एंड इन्फ्रास्ट्रक्चर्च लिमिटेड  
पृष्ठा १० से ११  
Project - 2050  
HRRL Pachpadra

## CONSTRUCTION : CIVIL

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU
						INR	L1	L2	L3	L4	L5	L6
3.2.3.1.2.10.2	Neutralizaton Pits	Nos.	10								2.00%	
3.2.3.1.2.10.3	Rainwater Harvesting Pits	Nos.	2								0.40%	
3.2.3.1.2.10.4	Sand Traps	Nos.	3								0.60%	
3.2.3.1.2.10.5	Cable Trench	RM	500								7.00%	
3.2.3.1.2.10.6	Fire Water Trench with cover and Sand filling	RM	525								32,05,399.68	
3.2.3.1.2.10.7	Liquid Sulphur Yard Loading Bays	Nos.	4								10.00%	
3.2.3.1.2.10.8	Sulphur Yard	Nos.	9								5.00%	
3.2.3.1.2.10.9	CRWS and OWS Sump pit	Nos.	8								44.00%	
3.2.3.1.2.11	<b>PAVEMENT WORKS</b>										28.00%	
3.2.3.1.2.11.1	Pavement Works	Cum	5234.32								8.50%	
											100.00%	
3.2.3.1.2.12	<b>SUPER STRUCTURE</b>										6.15%	
3.2.3.1.2.12.1	RCC Superstructure ANALYSERS SHELTER-1	Nos.	4								2.00%	
3.2.3.1.2.12.2	RCC Superstructure ANALYSERS SHELTER-2	Nos.	4								2.00%	
3.2.3.1.2.12.3	In-Situ RCC Works PR-01	Nos.	141								21.00%	
3.2.3.1.2.12.4	In-Situ RCC Works PR-02	Nos.	8								3.00%	
3.2.3.1.2.12.5	In-Situ RCC Works PR-03	Nos.	7								2.00%	
3.2.3.1.2.12.6	In-Situ RCC Works PR-04	Nos.	8								2.00%	
3.2.3.1.2.12.7	In-Situ RCC Works PR-05	Nos.	15								2.00%	
3.2.3.1.2.12.9	In-Situ RCC Works PR-06	Nos.	24								2.70%	
3.2.3.1.2.12.12	In-Situ RCC Works PR-07	Nos.	7								3.30%	
3.2.3.1.2.12.13	In-Situ RCC Works PR-08	Nos.	5								1.40%	
3.2.3.1.2.12.14	In-Situ RCC Works PR-09	Nos.	10								1.10%	
3.2.3.1.2.12.16	In-Situ RCC Works PR-10	Nos.	3								1.50%	
3.2.3.1.2.12.17	RCC Superstructure Liquid Sulphur Yard Loading Bays	Nos.	1								1.60%	
3.2.3.1.2.12.18	RCC Superstructure Pipe Bridge	Nos.	1								6.00%	
3.2.3.1.2.12.19	RCC Superstructure/Substructure Miscellaneous Foundations	Nos.	14								8.00%	
3.2.3.1.2.12.20	RCC Superstructure Sulphur Yard	Nos.	1								7.60%	
3.2.3.1.2.12.21	Deck Slab	Nos.	1								9.00%	
3.2.3.1.2.12.22	Painting of RCC Precast Structures										8.80%	
3.2.3.1.2.12.22.a	Column	Nos.	242								17.00%	
3.2.3.1.2.12.22.b	Beam	Nos.	274								65.00%	
											35.00%	
3.2.3.1.2.13	<b>PRECAST WORKS</b>										11.70%	
3.2.3.1.2.13.1	Pre Casting PR-01 - Column - Casting	Nos.	82								17.56%	
3.2.3.1.2.13.2	Pre Casting PR-01 - Beam - Casting	Nos.	150								5.92%	
3.2.3.1.2.13.3	Pre Casting PR-01 - Column - Erection	Nos.	82								17.56%	
3.2.3.1.2.13.4	Pre Casting PR-01 - Beam - Erection	Nos.	150								17.56%	
3.2.3.1.2.13.5	Pre Casting PR-02 - Column - Casting	Nos.	16								5.92%	
3.2.3.1.2.13.6	Pre Casting PR-02 - Beam - Casting	Nos.	12								1.86%	
3.2.3.1.2.13.7	Pre Casting PR-02 - Column - Erection	Nos.	16								0.34%	
3.2.3.1.2.13.8	Pre Casting PR-02 - Beam - Erection	Nos.	12								1.86%	
3.2.3.1.2.13.9	Pre Casting PR-03 - Column - Casting	Nos.	12								0.34%	
3.2.3.1.2.13.10	Pre Casting PR-03 - Beam - Casting	Nos.	8								1.66%	
3.2.3.1.2.13.11	Pre Casting PR-03 - Column - Erection	Nos.	12								0.32%	
3.2.3.1.2.13.12	Pre Casting PR-03 - Beam - Erection	Nos.	8								1.66%	
3.2.3.1.2.13.13	Pre Casting PR-04 - Column - Casting	Nos.	12								0.32%	
3.2.3.1.2.13.14	Pre Casting PR-04 - Beam - Casting	Nos.	8								1.46%	
3.2.3.1.2.13.15	Pre Casting PR-04 - Column - Casting	Nos.	12								0.32%	
3.2.3.1.2.13.16	Pre Casting PR-04 - Beam - Casting	Nos.	8								1.46%	
3.2.3.1.2.13.17	Pre Casting PR-05 - Column - Casting	Nos.	32								0.32%	
											3.13%	

(N.W.2020)  
  
 Megha Engineering & Infrastructures Ltd.  
 Project No. 2020  
 Pachpadra

प्रौद्योगिकी विभाग  
 महाराष्ट्र इंजीनियर्स इंडिया लिमिटेड  
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D. Nitish Reddy

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 Deputy General Manager - Projects  
 एचपीसीएल राजस्थान रिफार्मिंग लिमिटेड  
 HPCL Rajasthan Refinery Limited

**CONSTRUCTION : CIVIL**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPLC RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU	
						INR	L1	L2	L3	L4	L5	L6	
3.2.3.1.2.13.18	Pre Casting PR-05 - Beam - Casting	Nos	24										INR
3.2.3.1.2.13.19	Pre Casting PR-05 - Column - Erection	Nos	32										6,64,253.99
3.2.3.1.2.13.20	Pre Casting PR-05 - Beam - Erection	Nos	24										27,95,042.75
3.2.3.1.2.13.21	Pre Casting PR-06 - Column - Casting	Nos	46										6,64,253.99
3.2.3.1.2.13.22	Pre Casting PR-06 - Beam - Casting	Nos	42										47,85,662.42
3.2.3.1.2.13.23	Pre Casting PR-06 - Column - Erection	Nos	46										10,56,767.71
3.2.3.1.2.13.24	Pre Casting PR-06 - Beam - Erection	Nos	42										47,85,662.42
3.2.3.1.2.13.25	Pre Casting PR-07 - Column - Casting	Nos	14										10,56,767.71
3.2.3.1.2.13.26	Pre Casting PR-07 - Beam - Casting	Nos	10										17,28,268.10
3.2.3.1.2.13.27	Pre Casting PR-07 - Column - Erection	Nos	14										2,51,611.36
3.2.3.1.2.13.28	Pre Casting PR-07 - Beam - Erection	Nos	10										17,28,268.10
3.2.3.1.2.13.29	Pre Casting PR-08 - Column - Casting	Nos	20										2,51,611.36
3.2.3.1.2.13.30	Pre Casting PR-08 - Beam - Casting	Nos	16										21,77,804.14
3.2.3.1.2.13.31	Pre Casting PR-08 - Column - Erection	Nos	20										5,63,609.44
3.2.3.1.2.13.32	Pre Casting PR-08 - Beam - Erection	Nos	16										21,77,804.14
3.2.3.1.2.13.33	Pre Casting PR-09 - Column - Casting	Nos	2										5,63,609.44
3.2.3.1.2.13.34	Pre Casting PR-09 - Beam - Casting	Nos	2										2,17,780.41
3.2.3.1.2.13.35	Pre Casting PR-09 - Column - Erection	Nos	2										70,451.18
3.2.3.1.2.13.36	Pre Casting PR-09 - Beam - Erection	Nos	2										2,17,780.41
3.2.3.1.2.13.37	Pre Casting PR-10 - Column - Casting	Nos	6										70,451.18
3.2.3.1.2.13.38	Pre Casting PR-10 - Beam - Casting	Nos	2										3,06,462.64
3.2.3.1.2.13.39	Pre Casting PR-10 - Column - Erection	Nos	6										77,640.08
3.2.3.1.2.13.40	Pre Casting PR-10 - Beam - Erection	Nos	2										3,06,462.64
3.2.3.1.2.13.41	UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Casting	Nos	357										77,640.08
3.2.3.1.2.13.42	UG Pits-Single & Double Manhole, Catch Basins, Clean Out Etc - Erection with cover slab	Nos	357										36,75,035.51
<b>3.2.3.1.2.14</b>	<b>SUBSTATION-24 BUILDING</b>												36,75,035.51
3.2.3.1.2.14.1	RCC: Foundation & Column upto HPP level	Nos	68										9,61,61,990.40
3.2.3.1.2.14.2	RCC: Grade slab ground floor	Nos	1										1,73,09,158.27
3.2.3.1.2.14.3	RCC- Columns Ground floor	Nos	76										86,54,579.14
3.2.3.1.2.14.4	RCC: Slab First floor	Nos	1										28,84,859.71
3.2.3.1.2.14.5	Transformer Bay Foundation with gates	Nos	11										96,16,199.04
3.2.3.1.2.14.6	RCC: Columns First floor	Nos	76										19,23,239.81
3.2.3.1.2.14.7	RCC: Terrace	LS	1										38,46,479.62
3.2.3.1.2.14.8	Brick Masonry work for each floor	LS	2										86,54,579.14
3.2.3.1.2.14.9	Plastering work for each floor	LS	2										1,15,39,438.85
3.2.3.1.2.14.10	All types of doors/gates/shutters & windows/ventilations/partitions	LS	1										57,69,719.42
3.2.3.1.2.14.11	Plumbing and Sanitary work	LS	1										28,84,859.71
3.2.3.1.2.14.12	Painting work for each floor	LS	2										48,08,099.52
3.2.3.1.2.14.13	Floor Finishing Works for each floor	LS	2										28,84,859.71
3.2.3.1.2.14.14	False Flooring	LS	1										36,06,074.64
3.2.3.1.2.14.15	False Ceiling	LS	1										19,23,239.81
3.2.3.1.2.14.16	Cable Trenches	LS	1										19,23,239.81
3.2.3.1.2.14.17	Cable Trench Cover	LS	1										48,08,099.52
3.2.3.1.2.14.18	Plinth Protection , Surrounding Drain, Transformer Gravel Etc.	LS	1										9,61,619.90
3.2.3.1.2.14.19	Roof water proofing works as per specification, Transformer gravel filling Etc.	LS	1										9,61,619.90
3.2.3.1.2.14.20	Other Misc. items. i.e, E&I, Furniture etc.	LS	1										2,40,404.98
<b>3.2.3.1.2.15</b>	<b>SRR-05 BUILDING</b>												6,48,71,184.00
3.2.3.1.2.15.1	RCC: Foundation & Column upto HPP level	Nos	21										2,33,53,626.24

D. Nitin Reddy

पी. शिंदे  
परिषद् पूर्वानुदायक  
इंजीनियर मुख्य नियोजन इंजीनियर  
इंस्पेक्टर वार्ड  
P. Shinde  
Senior Manager  
HPLC Project - 2020  
HRRL Pachpadra

ज्ञानी कृष्ण  
मध्यपश्चिम (नियोजन) इंजीनियर (Construction)  
इंस्पेक्टर वार्ड  
HPLC Project - 2020  
HRRL Barmer

द्रोनमराजु रामाराव वी.आर.प्रस  
उप महान्वयनकर्ता – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफार्किनी लिमिटेड  
HPCL Rajasthan Refinery Limited

**CONSTRUCTION : CIVIL**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEGA ENGINEERING AND INFRASTRUCTURES LIMITED
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UoM	QTY	TAG NO	As per SP-03	Weightage						Amount as BBU
						INR	L1	L2	L3	L4	L5	L6
3.2.3.1.2.15.2	RCC: Super Structure (Grade slab and Walls upto Roof slab)	Nos	1								14.00%	
3.2.3.1.2.15.3	RCC: Roof slab	LS	1								8.00%	
3.2.3.1.2.15.4	Plastering work - Inside and Outside	LS	2								9.00%	
3.2.3.1.2.15.5	All types of doors/gates/shutters & windows/ventilations/partitions	LS	1								3.00%	
3.2.3.1.2.15.6	Plumbing and Sanitary work	LS	1								5.00%	
3.2.3.1.2.15.7	Painting work	LS	1								3.00%	
3.2.3.1.2.15.8	Floor Finishing Works	LS	1								3.00%	
3.2.3.1.2.15.9	False Flooring	LS	1								3.00%	
3.2.3.1.2.15.10	False Ceiling	LS	1								3.00%	
3.2.3.1.2.15.11	Cable Trenches	LS	1								3.00%	
3.2.3.1.2.15.12	Cable Trench Cover	LS	1								3.00%	
3.2.3.1.2.15.13	Plinth Protection , Surrounding Drain, Transformer Gravel filling Etc.	LS	1								5.00%	
3.2.3.1.2.15.14	Roof water proofing works as per specification	LS	1								1.00%	
3.2.3.1.2.15.15	Other Misc. items. i.e, E&I, Furniture etc.	LS	1								3.00%	
3.2.3.1.2.16	<b>FIRE PROOFING OF STEEL STRUCTURE &amp; EQUIPMENTS</b>										1.00%	
3.2.3.1.2.16.1	Pipe Rack	LS	1								9.80%	
3.2.3.1.2.16.2	Tech Structure	LS	1								35.05%	
3.2.3.1.2.16.3	Equipment	LS	1								46.39%	
3.2.3.1.2.17	Miscellaneous (Foundation for Operating Plateform & Peripheral Draining )	LS	1								18.56%	
3.2.3.1.3	On issue of Mechanical completion certificate	LS	1								0.50%	
3.2.3.1.4	On issue of Commissioning Certificate	LS	1			4,76,99,400.00						
3.2.3.1.5	On issue of Performance Test Certificate	LS	1			2,86,19,640.00						
3.2.3.1.5	On completion of all jobs	LS	1			95,39,880.00						
						95,39,880.00						
												38,15,952.00
												4,76,99,400.00
												2,86,19,640.00
												95,39,880.00
												95,39,880.00
<b>NOTES:</b>		<ol style="list-style-type: none"> <li>1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>2. This Billing Break up is for construction portion only.</li> <li>3. This billing break up is for releasing of payment only.</li> <li>4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure</li> <li>5. Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices</li> <li>6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>										

पी. श्रीधर  
वारिष्ठ प्रबन्धक  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बारमेर - RRP-Barmer



Bikash Kumar Das

एफ सी वेदोर  
महाप्रबन्धक (निमारी)  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बारमेर

Sisir Kumar Mishra  
Resident Construction Manager  
आपातीय निमारी प्रबन्धक  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बारमेर

D. Nitish Reddy  
18/8/22

द्रांनमराजु रामाराय पी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबन्धक – परियोजनाएँ  
Deputy General Manager - Projects  
एचरीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : STRUCTURE

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION	UOM	BBU QTY	TAG NO	Amount As per SP Form	Weightage					Amount as per BBU	
					INR	L1	L2	L3	L4	L5	L6	INR
3.2.3	CONSTRUCTION / SITE WORK (as per FORM SP-3)				4,54,28,00,000.00							
3.2.3.2	Structural Works				40,88,52,000.00	9%						40,88,52,000.00
3.2.3.2.1	On Finalisation of Qty, Plan & Submission of Fabrication Drgs	MT	9496		2,04,42,600.00			5%				2,04,42,600.00
3.2.3.2.1.1	Technological Structures (TS)	MT	3367									34.50% 70,52,697.00
3.2.3.2.1.2	Pipe Rack (All PR Including Common & Branch PR)	MT	2895									29.90% 61,12,337.40
3.2.3.2.1.3	Sulphur Yard including Loading Bays	MT	2377									24.50% 50,08,437.00
3.2.3.2.1.4	Miscellaneous (Pipe Supports & Equipment Platform etc.)	MT	150									3.40% 6,95,048.40
3.2.3.2.1.5	Ladders	MT	55									0.56% 1,14,478.56
3.2.3.2.1.6	Handrails	MT	158									1.62% 3,31,170.12
3.2.3.2.1.7	Gratings	MT	470									4.78% 9,77,156.28
3.2.3.2.1.8	Chequered Plate	MT	23									0.24% 49,062.24
3.2.3.2.1.9	Sheeting Installation	SQM	7550									0.50% 1,02,213.00
3.2.3.2.2	Fabrication of Materials on Pro-rata basis				22,48,68,600.00		55%					22,48,68,600.00
3.2.3.2.2	On Fabrication and Painting	MT	9496						100%			22,48,68,600.00
3.2.3.2.2.1	Technological Structures (TS)	MT	3367									34.50% 7,75,79,667.00
3.2.3.2.2.2	Pipe Rack (All PR Including Common & Branch PR)	MT	2895									29.90% 6,72,35,711.40
3.2.3.2.2.3	Sulphur Yard including Loading Bays	MT	2377									24.50% 5,50,92,807.00
3.2.3.2.2.4	Miscellaneous (Pipe Supports & Equipment Platform etc.)	MT	150									3.40% 76,45,532.40
3.2.3.2.2.5	Ladders	MT	55									0.56% 12,59,264.16
3.2.3.2.2.6	Handrails	MT	158									1.62% 36,42,871.32
3.2.3.2.2.7	Gratings	MT	470									4.78% 1,07,48,719.08
3.2.3.2.2.8	Chequered Plate	MT	23									0.24% 5,39,684.64
3.2.3.2.2.9	Sheeting Installation	SQM	7550									0.50% 11,24,343.00
3.2.3.2.3	On Erection, Alignment & Grouting etc on Pro-rata basis				12,26,55,600.00		30%					12,26,55,600.00
3.2.3.2.3.a	18% against Erection	MT	9496						60%			7,35,93,360.00
3.2.3.2.3.a.1	Technological Structures (TS)	MT	3367									34.50% 2,53,89,709.20
3.2.3.2.3.a.2	Pipe Rack (All PR Including Common & Branch PR)	MT	2895									29.90% 2,20,04,414.64
3.2.3.2.3.a.3	Sulphur Yard including Loading Bays	MT	2377									24.50% 1,80,30,373.20
3.2.3.2.3.a.4	Miscellaneous (Pipe Supports & Equipment Platform etc.)	MT	150									3.40% 25,02,174.24
3.2.3.2.3.a.5	Ladders	MT	55									0.56% 4,12,122.82
3.2.3.2.3.a.6	Handrails	MT	158									1.62% 11,92,212.43
3.2.3.2.3.a.7	Gratings	MT	470									4.78% 35,17,762.61
3.2.3.2.3.a.8	Chequered Plate	MT	23									0.24% 1,76,624.06
3.2.3.2.3.a.9	Sheeting Installation	SQM	7550									0.50% 3,67,966.80
3.2.3.2.3.b	12% against Alignment & Grouting	MT	9496						40%			4,90,62,240.00
3.2.3.2.3.b.1	Technological Structures (TS)	MT	3367									34.50% 1,69,26,472.80
3.2.3.2.3.b.2	Pipe Rack (All PR Including Common & Branch PR)	MT	2895									29.90% 1,46,69,609.76
3.2.3.2.3.b.3	Sulphur Yard including Loading Bays	MT	2377									24.50% 1,20,20,248.80
3.2.3.2.3.b.4	Miscellaneous (Pipe Supports & Equipment Platform etc.)	MT	150									3.40% 16,68,116.16
3.2.3.2.3.b.5	Ladders	MT	55									0.56% 2,74,748.54
3.2.3.2.3.b.6	Handrails	MT	158									1.62% 7,94,808.29
3.2.3.2.3.b.7	Gratings	MT	470									4.78% 23,45,175.07
3.2.3.2.3.b.8	Chequered Plate	MT	23									0.24% 1,17,749.38
3.2.3.2.3.b.9	Sheeting Installation	SQM	7550									0.50% 2,45,311.20



पौष्टि प्रवान्धक / Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एफ सी शेरा  
महाप्रबंधक (नियार्थी)  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी.वाइ.सी.एस.  
RRP-Barmer

D. Nitish Reddy

द्रोनभराजु रामराजू की आरएस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : STRUCTURE

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEGHA ENGINEERING AND INFRASTRUCTURES LIMITED											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
					INR							INR
3.2.3.2.4	On Issue of Mechanical completion certificate	LS	1		2,04,42,600.00			5%				2,04,42,600.00
3.2.3.2.5	On Issue of Commissioning Certificate	LS	1		81,77,040.00			2%				81,77,040.00
3.2.3.2.6	On issue of Performance Test Certificate	LS	1		81,77,040.00			2%				81,77,040.00
3.2.3.2.7	On completion of all jobs	LS	1		40,88,520.00			1%				40,88,520.00
NOTES :	<ol style="list-style-type: none"> <li>All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>This Billing Break up is for construction portion only.</li> <li>This billing break up is for releasing of payment only.</li> <li>Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure.</li> <li>Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices.</li> <li>The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>											



B. hashikumarreddy

प्रौद्योगिकी विभाग  
इंजीनियरिंग और संसाधनों के नियंत्रण  
इंजीनियरिंग इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी बैंडग  
महाप्रबंधक (नियामन)  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.पी. बार्मर  
RRP-Barmer

21/8/2022  
F.G.BEMERA  
General Manager (Construction)

FACT  
49/2  
शिशिर कुमार मिश्र  
Resident Construction Manager  
आवासीय नियामन इंजीनियरिंग  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.पी. बार्मर  
RRP-Barmer

D. Nitish Reddy

द्रोनमराजु रामाराव ची.आर.एस  
DROJAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीआईएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : PIPING WORKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN												
NAME OF CONTRACTOR	M/s MEIL												
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED												
NAME OF PMC	ENGINEERS INDIA LIMITED												
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021												
SR. NO	DESCRIPTION	UOM	BBU QTY	TAG NO	Amount As per SP Form	INR	L1	L2	L3	L4	L5	L6	Amount as per BBU
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)					4,54,28,00,000.00							INR
3.2.3.3.A	PIPING WORKS					1,36,28,40,000.00	30.00%						1,36,28,40,000.00
3.2.3.3.A.1	Above Piping(A/G) PIPING works along with all valves, fittings, flanges, fasteners, etc.					1,22,65,56,000.00	90.00%						1,22,65,56,000.00
3.2.3.3.A.1.1	On completion of pre-fabrication Including NDT (On pro-rata Basis)	ID	165093					35.00%					42,92,94,600.00
3.2.3.3.A.1.1.1	On completion of pre-fabrication on pro-rata Basis	ID	165093						100.00%				42,92,94,600.00
3.2.3.3.A.1.1.1.a	CS - Non-IBR	ID	111802						67.72%				29,07,20,252.11
3.2.3.3.A.1.1.1.b	SS/AS	ID	32445						19.65%				8,43,67,172.14
3.2.3.3.A.1.1.1.c	IBR	ID	20846						12.63%				5,42,07,175.75
3.2.3.3.A.1.2	On completion of erection and welding including NDT (On pro-rata Basis)	IM	560719					40.00%					49,06,22,400.00
3.2.3.3.A.1.2.1	10% against erection, preliminary alignment with fit-up	IM	560719						25.00%				12,26,55,600.00
3.2.3.3.A.1.2.1.a	CS - Non-IBR	IM	418865						74.70%				9,16,25,462.83
3.2.3.3.A.1.2.1.b	SS/AS	IM	77325						13.79%				1,69,14,611.90
3.2.3.3.A.1.2.1.c	IBR	IM	64529						11.51%				1,41,15,525.27
3.2.3.3.A.1.2.2	14% on completion of in-situ welding (Incl Radiography test), supporting structure (saddles, corrosion pads)	IM	560719					35.00%					17,17,17,840.00
3.2.3.3.A.1.2.2.a	CS - Non-IBR	IM	418865						74.70%				12,82,75,647.97
3.2.3.3.A.1.2.2.b	SS/AS	IM	77325						13.79%				2,36,80,456.66
3.2.3.3.A.1.2.2.c	IBR	IM	64529						11.51%				1,97,61,735.37
3.2.3.3.A.1.2.3	16% on completion of final alignment including guides, cross guides, all NDT, PWHT of joints and supports, reshoot, repair, radiography after PWHT joints, MC of loops/lines including erection of valves except control valves	ID	111396					40.00%					19,62,48,960.00
3.2.3.3.A.1.2.3.a	CS - Non-IBR	ID	74868						67.21%				13,18,97,194.66
3.2.3.3.A.1.2.3.b	SS/AS	ID	22630						20.31%				3,98,67,947.79
3.2.3.3.A.1.2.3.c	IBR	ID	13898						12.48%				2,44,83,817.55
3.2.3.3.A.1.3	On completion of hydro-testing (On pro-rata Basis)	IM	560719					15.00%					18,39,83,400.00
3.2.3.3.A.1.4	On issue of Mechanical Completion certificate	LS	1					5.00%					6,13,27,800.00
3.2.3.3.A.1.5	On successful Commissioning of the Plant/Works	LS	1					3.00%					3,67,96,680.00
3.2.3.3.A.1.6	On issue of Commissioning and Performance Test Certificate	LS	1					1.00%					1,22,65,560.00
3.2.3.3.A.1.7	On Completion of all Jobs	LS	1					1.00%					1,22,65,560.00
3.2.3.3.A.2	UNDER GROUND(U/G) PIPING works along with all valves, fittings, flanges, fasteners, etc.					13,62,84,000.00	10.00%						13,62,84,000.00
3.2.3.3.A.2.1	On completion of pre-fabrication including NDT (On pro-rata Basis)	ID	28800						35.00%				4,76,99,400.00
3.2.3.3.A.2.1.1	On completion of pre-fabrication on pro-rata Basis	ID	28800						100.00%				4,76,99,400.00
3.2.3.3.A.2.2	On completion of erection and welding including NDT (On pro-rata Basis) - (19200 ID)												5,45,13,600.00
3.2.3.3.A.2.2.1	28% against excavation laying and field welding.	IM	70072					40.00%					3,81,59,520.00
3.2.3.3.A.2.2.2	12% against coating at field joints, holiday testing, painting, perlite insulation (wherever applicable) and Backfilling	IM	70072						70.00%				1,63,54,080.00



Binay Kumar  
Project Engineer  
HRRL Pachpadra  
Engineers India Limited

Bikash Kumar Das

Yash Mehta  
Project Manager (Piping)  
General Manager (Construction)  
RRP-Barmer  
Engineers India Limited

D. Nitish Reddy

D. Nitish Reddy  
DRONAMRAJU RAMARAO VRS  
Deputy General Manager - Projects  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : PIPING WORKS

PROJECT EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN

NAME OF CONTRACTOR M/s MEIL

NAME OF CLIENT HPCL RAJASTHAN REFINERY LIMITED

NAME OF PMC ENGINEERS INDIA LIMITED

LOA No. HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION	UOM	BBU QTY	TAG NO	Amount As per SP Form	Weightage						Amount as per BBU
					INR	L1	L2	L3	L4	L5	L6	INR
3.2.3.3.A.2.3	On completion of hydro-testing (On pro-rata Basis)	LS	56072					15.00%				2,04,42,600.00
3.2.3.3.A.2.4	On Issue of Mechanical Completion certificate	LS	1					5.00%				68,14,200.00
3.2.3.3.A.2.5	On successful Commissioning of the Plant/Works	LS	1					3.00%				40,88,520.00
3.2.3.3.A.2.6	On Issue of Commissioning and Performance Test Certificate	LS	1					1.00%				13,62,840.00
3.2.3.3.A.2.7	On Completion of all jobs	LS	1					1.00%				13,62,840.00
NOTES :	1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications. 2. This Billing Break up is for construction portion only. 3. This billing break up is for releasing of payment only. 4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure. 5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices. 6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project. 7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.											



प्रियकृत कुमार  
Binday Kumar  
अधिकारी प्रबंधक / प्रोजेक्ट मैनेजर  
इंजीनियरिंग इंडिया लिमिटेड  
RRP-Barmer

पी. श्रीधर / P. Sridhar  
वरिष्ठ प्रबंधक / Sr. Manager  
इंजीनियरिंग इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

Bikash Kumar Das

एफ सी बहेरा / F.C. Behera  
महाप्रबंधक (प्रोजेक्ट) General Manager (Construction)  
इंजीनियरिंग इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बार्मर RRP-Barmer

१८/८/२०२२

शिशिर कुमार मिश्र Sisir Kumar Mishra  
आयासीय नियायाप्रबंधक Resident Construction Manager  
इंजीनियरिंग इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बार्मर RRP-Barmer

१८/८/२२

D. Natesh Reddy  
18/8/22

द्रोनमराजु रामराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

## CONSTRUCTION : INSULATION AND REFRactory WORKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN												
NAME OF CONTRACTOR	M/s MEIL												
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED												
NAME OF PMC	ENGINEERS INDIA LIMITED												
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021												
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	INR	L1	L2	L3	L4	L5	L6	Amount as per BBU
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)					4,54,28,00,000.00							INR
3.2.3.3.B	Insulation and Refractory works					9,08,56,000.00	2.00%						9,08,56,000.00
3.2.3.3.B.1	Completion of Insulation and Refractory work on pro-rata basis					8,17,70,400.00		90.00%					8,17,70,400.00
3.2.3.3.B.1.I	Completion of Insulation Works	Ls	1						65.00%				5,31,50,760.00
3.2.3.3.B.1.I.1	Insulation Works - Equipment	Nos	196						25.00%				1,32,87,690.00
3.2.3.3.B.1.I.2	Insulation Works - Piping	Sq.m	20238						75.00%				3,98,63,070.00
3.2.3.3.B.1.II	Completion of Refractory Works	Nos	16						35.00%				2,86,19,640.00
3.2.3.3.B.2	On Issue of Mechanical Completion certificate	Ls	1			45,42,800.00		5.00%					45,42,800.00
3.2.3.3.B.3	On successful Commissioning of the Plant/Works	Ls	1			27,25,680.00		3.00%					27,25,680.00
3.2.3.3.B.4	On Issue of Commissioning and Performance Test Certificate	Ls	1			9,08,560.00		1.00%					9,08,560.00
3.2.3.3.B.5	On Completion of all jobs	Ls	1			9,08,560.00		1.00%					9,08,560.00
NOTES :	1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications. 2. This Billing Break up is for construction portion only. 3. This billing break up is for releasing of payment only. 4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure 5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices 6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project. 7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.												



Binay Kumar  
 बिनय कुमार  
 इंजीनियर्स इंडिया लिमिटेड  
 Engineers India Limited  
 RRP-Barmer

एक ही दोहरा  
 भवधारणक (मिमांसा) 28/10/2022  
 इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
 अर.आर.पी.वार्स

D. Nitish Reddy

द्रोनमराजु रामाराव वौ.आर.रस  
 DRONAMRAJU RAMARAO VRS  
 उप महाप्रबंधक - परियोजनाएँ  
 Deputy General Manager - Projects  
 एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
 HPCL Rajasthan Refinery Limited

bikashkumarreddy,



CONSTRUCTION : PAINTING

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEIL
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	Weightage						Amount as per BBU
					INR	L1	L2	L3	L4	L5	L6	INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)				4,54,28,00,000.00							
3.2.3.3.C	Painting				4,54,28,000.00	1.00%						4,54,28,000.00
3.2.3.3.C.1	On completion of surface preparation, Primer application on pro-rata basis	IM	560719		45,42,800.00	10.00%						45,42,800.00
3.2.3.3.C.2	On completion of Final painting on pro-rata basis	IM	560719		3,63,42,400.00	80.00%						3,63,42,400.00
3.2.3.3.C.3	On Issue of Mechanical Completion certificate	Ls	1		22,71,400.00	5.00%						22,71,400.00
3.2.3.3.C.4	On successful Commissioning of the Plant/Works	Ls	1		13,62,840.00	3.00%						13,62,840.00
3.2.3.3.C.5	On Issue of Commissioning and Performance Test Certificate	Ls	1		4,54,280.00	1.00%						4,54,280.00
3.2.3.3.C.6	On Completion of all jobs	Ls	1		4,54,280.00	1.00%						4,54,280.00

NOTES :

1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.
2. This Billing Break up is for construction portion only.
3. This billing break up is for releasing of payment only.
4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure
5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices
6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.
7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.



विनय कुमार  
अधिकारी  
इंजीनियरिंग इंडिया लिमिटेड  
Engineers India Limited  
RRP-Barmer

पी. श्रीधर/P. Sridhar  
घरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी बैहरा  
महाप्रबंधक (भिन्नर्व)  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. वार्मर  
F C BEHERA  
General Manager (Construction)  
Sisir Kumar Mishra  
Resident Construction Manager  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.पी. वार्मर  
RRP-Barmer

सिरिज  
21/8/22  
D. Nitish Reddy  
18/8/22  
D.  
शिशिर कुमार मिश्रा Sisir Kumar Mishra  
आवासीय निर्माण प्रबंधक Resident Construction Manager  
इंजीनियरिंग इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. वार्मर RRP-Barmer

D. Nitish Reddy  
18/8/22  
D.  
द्रोनमराजु रामाराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

## **CONSTRUCTION : EQUIPMENT**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN										
NAME OF CONTRACTOR	M/s MEIL										
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED										
NAME OF PMC	ENGINEERS INDIA LIMITED										
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021										
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	Amount as per BBU
					INR						INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)				4,54,28,00,000.00						
3.2.3.3.D	Equipment				81,77,04,000.00	18.00%					81,77,04,000.00
3.2.3.3.D.1	Completion of Erection, on pro-rata basis				36,79,66,800.00	45.00%					36,79,66,800.00
3.2.3.3.D.1.i.1	Columns	Nos	12						20.80%		7,65,37,094.41
3.2.3.3.D.1.i.1.1	Flash Gas Absorber (Train-1)	Nos	1	120-C-1001					0.2%		1,87,179.6
3.2.3.3.D.1.i.1.2	Amine Regenerator (Train-1)	Nos	1	120-C-1002					13.8%		1,05,85,329.3
3.2.3.3.D.1.i.1.3	Flash Gas Absorber (Train-2)	Nos	1	120-C-2001					0.2%		1,87,179.6
3.2.3.3.D.1.i.1.4	Amine Regenerator (Train-2)	Nos	1	120-C-2002					13.8%		1,05,85,329.3
3.2.3.3.D.1.i.1.5	Mdea Regenerator	Nos	1	121-C-0201					4.9%		37,43,592.0
3.2.3.3.D.1.i.1.6	Quench Tower (Train-1)	Nos	1	121-C-1101					5.2%		40,01,770.8
3.2.3.3.D.1.i.1.7	Mdea Absorber (Train-1)	Nos	1	121-C-1201					4.4%		33,56,323.9
3.2.3.3.D.1.i.1.8	Quench Tower (Train-2)	Nos	1	121-C-2101					5.2%		40,01,770.8
3.2.3.3.D.1.i.1.9	Mdea Absorber (Train-2)	Nos	1	121-C-2201					4.4%		33,56,323.9
3.2.3.3.D.1.i.1.10	1 St Stage Sour Water Stripper	Nos	1	118-C-0001					13.7%		1,04,56,239.9
3.2.3.3.D.1.i.1.11	2 Nd Stage Sour Water Stripper	Nos	1	118-C-0002					11.8%		90,36,256.7
3.2.3.3.D.1.i.1.12	Sour Water Stripper-li	Nos	1	119-C-0001					22.3%		1,70,39,798.3
3.2.3.3.D.1.i.2	Columns Internals	Nos	12						5.20%		1,91,34,273.61
3.2.3.3.D.1.i.2.1	Flash Gas Absorber (Train-1)	Nos	1	120-C-1001					0.2%		46,794.9
3.2.3.3.D.1.i.2.2	Amine Regenerator (Train-1)	Nos	1	120-C-1002					13.8%		26,46,332.3
3.2.3.3.D.1.i.2.3	Flash Gas Absorber (Train-2)	Nos	1	120-C-2001					0.2%		46,794.9
3.2.3.3.D.1.i.2.4	Amine Regenerator (Train-2)	Nos	1	120-C-2002					13.8%		26,46,332.3
3.2.3.3.D.1.i.2.5	Mdea Regenerator	Nos	1	121-C-0201					4.9%		9,35,898.0
3.2.3.3.D.1.i.2.6	Quench Tower (Train-1)	Nos	1	121-C-1101					5.2%		10,00,442.7
3.2.3.3.D.1.i.2.7	Mdea Absorber (Train-1)	Nos	1	121-C-1201					4.4%		8,39,080.9
3.2.3.3.D.1.i.2.8	Quench Tower (Train-2)	Nos	1	121-C-2101					5.2%		10,00,442.7
3.2.3.3.D.1.i.2.9	Mdea Absorber (Train-2)	Nos	1	121-C-2201					4.4%		8,39,080.9
3.2.3.3.D.1.i.2.10	1 St Stage Sour Water Stripper	Nos	1	118-C-0001					13.7%		26,14,059.9
3.2.3.3.D.1.i.2.11	2 Nd Stage Sour Water Stripper	Nos	1	118-C-0002					11.8%		22,59,064.1
3.2.3.3.D.1.i.2.12	Sour Water Stripper-li	Nos	1	119-C-0001					22.3%		42,59,949.6
3.2.3.3.D.1.i.3	Pressure Vessels Including Internals, If Any.	Nos	56						10.40%		3,82,68,547.20
3.2.3.3.D.1.i.3.1	Hydrocarbon Skim Drum	Nos	1	120-V-0001					0.4%		1,48,812.2
3.2.3.3.D.1.i.3.2	Amine Sump Drum	Nos	1	120-V-0003					3.6%		13,91,070.6
3.2.3.3.D.1.i.3.3	Acid Flare Knockout Drum	Nos	1	120-V-0004					3.9%		15,01,062.20
3.2.3.3.D.1.i.3.4	Rich Amine Flash Drum (Train-1)	Nos	1	120-V-1001					16.1%		61,59,531.30
3.2.3.3.D.1.i.3.5	Reboiler Condensate Drum (Train-1)	Nos	1	120-V-1002					0.7%		2,58,803.8
3.2.3.3.D.1.i.3.6	Amine Regenerator Reflux Drum (Train-1)	Nos	1	120-V-1003					1.0%		4,01,145.9
3.2.3.3.D.1.i.3.7	Rich Amine Flash Drum (Train-2)	Nos	1	120-V-2001					16.1%		61,59,531.30
3.2.3.3.D.1.i.3.8	Reboiler Condensate Drum (Train-2)	Nos	1	120-V-2002					0.7%		2,58,803.8
3.2.3.3.D.1.i.3.9	Amine Regenerator Reflux Drum (Train-2)	Nos	1	120-V-2003					1.0%		4,01,145.9
3.2.3.3.D.1.i.3.10	Fuel Gas Ko Drum	Nos	1	121-V-0001					0.2%		74,406.10
3.2.3.3.D.1.i.3.11	Instrument Air Ko Drum	Nos	1	121-V-0002					0.1%		54,995.8
3.2.3.3.D.1.i.3.12	Rich Mdea Drum	Nos	1	121-V-0201					2.1%		8,08,762.00
3.2.3.3.D.1.i.3.13	Regenerator Overhead Drum	Nos	1	121-V-0202					0.3%		1,09,991.6
3.2.3.3.D.1.i.3.14	Mdea Regenerator Reboiler Condensate Pot	Nos	1	121-V-0203					5.7%		21,97,762.20
3.2.3.3.D.1.i.3.15	Mdea Sump Drum	Nos	1	121-V-0204					3.0%		11,64,617.2
3.2.3.3.D.1.i.3.16	Hp Condensate Drum	Nos	1	121-V-0301					0.3%		1,29,401.9
3.2.3.3.D.1.i.3.17	Daeerator	Nos	1	121-V-0302					0.3%		1,29,401.9
3.2.3.3.D.1.i.3.18	Aru Acid Gas Ko Drum (Train-1)	Nos	1	121-V-1001					0.5%		1,77,927.6
3.2.3.3.D.1.i.3.19	H2S Rich Sour Gas Ko Drum (Train-1)	Nos	1	121-V-1002					0.3%		1,16,461.7
3.2.3.3.D.1.i.3.20	Nh3 Rich Sour Gas Ko Drum (Train-1)	Nos	1	121-V-1003					0.3%		1,16,461.7
3.2.3.3.D.1.i.3.21	Whb Steam Drum (Train-1)	Nos	1	121-V-1004					5.7%		21,99,832.6
3.2.3.3.D.1.i.3.22	Tail Gas Coalescer (Train-1)	Nos	1	121-V-1005					1.3%		4,85,257.20
3.2.3.3.D.1.i.3.23	Incinerator Steam Drum (Train-1)	Nos	1	121-V-1006					1.7%		6,47,009.60

पा. श्रीधर / P. Sridhar  
वरिष्ठ प्रबंधक / Sr. Manager  
हूँजीनिवार्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी बैडरा  FC BEHERA  
महाप्रबंधक (नियन्त्रण) General Manager (Construction)  
हालीनियर्स इंजिनियर्स इंडिया लिमिटेड. Engineers India Limited  
आर.आर.पो.आरम्भर R.R.P-Barmer

**द्रोनमराणी** राजस्थान रिफारिंग्स  
DRONAMRAJU RAJASTHANS  
उप महाप्रबंधक - परिवर्तनी  
Deputy General Manager - PIMnets  
एचपीसीएल राजस्थान रिफारिंग्स लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : EQUIPMENT

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN												
NAME OF CONTRACTOR	M/s MEIL												
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED												
NAME OF PMC	ENGINEERS INDIA LIMITED												
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021												
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	INR	L1	L2	L3	L4	L5	L6	Amount as per BBU
3.2.3.3.D.1.i.3.24	First Stage Reheater Condensate Pot (Train-1)	Nos	1	121-V-1007							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.25	Second Stage Reheater Condensate Pot (Train-1)	Nos	1	121-V-1008							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.26	Acid Gas Preheater Condensate Pot (Train-1)	Nos	1	121-V-1009							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.27	Claus Air Preheater Condensate Pot (Train-1)	Nos	1	121-V-1010							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.28	Incinerator Air Preheater Condensate Pot (Train-1)	Nos	1	121-V-1011							0.1%		38,820.58
3.2.3.3.D.1.i.3.29	Hydrogenation Heater Condensate Pot (Train-1)	Nos	1	121-V-1101							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.30	Hp Blowdown Collector (Train-1)	Nos	1	121-V-1301							0.1%		54,995.82
3.2.3.3.D.1.i.3.31	Atm Blowdown Collector (Train-1)	Nos	1	121-V-1302							0.4%		14,557.16
3.2.3.3.D.1.i.3.32	Aru Acid Gas Ko Drum (Train-2)	Nos	1	121-V-2001							0.5%		1,77,927.64
3.2.3.3.D.1.i.3.33	H2S Rich Sour Gas Ko Drum (Train-2)	Nos	1	121-V-2002							0.3%		1,16,461.73
3.2.3.3.D.1.i.3.34	Nh3 Rich Sour Gas Ko Drum (Train-2)	Nos	1	121-V-2003							0.3%		1,16,461.73
3.2.3.3.D.1.i.3.35	Wbh Steam Drum (Train-2)	Nos	1	121-V-2004							5.7%		21,99,832.63
3.2.3.3.D.1.i.3.36	Tail Gas Coalescer (Train-2)	Nos	1	121-V-2005							1.3%		4,85,257.20
3.2.3.3.D.1.i.3.37	Incinerator Steam Drum (Train-2)	Nos	1	121-V-2006							1.7%		6,47,009.60
3.2.3.3.D.1.i.3.38	First Stage Reheater Condensate Pot (Train-2)	Nos	1	121-V-2007							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.39	Second Stage Reheater Condensate Pot (Train-2)	Nos	1	121-V-2008							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.40	Acid Gas Preheater Condensate Pot (Train-2)	Nos	1	121-V-2009							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.41	Claus Air Preheater Condensate Pot (Train-2)	Nos	1	121-V-2010							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.42	Incinerator Air Preheater Condensate Pot (Train-1)	Nos	1	121-V-2011							0.1%		38,820.58
3.2.3.3.D.1.i.3.43	Hydrogenation Heater Condensate Pot (Train-2)	Nos	1	121-V-2101							0.4%		1,68,222.50
3.2.3.3.D.1.i.3.44	Hp Blowdown Collector (Train-2)	Nos	1	121-V-2301							0.1%		54,995.82
3.2.3.3.D.1.i.3.45	Atm Blow Down Collector (Train-2)	Nos	1	121-V-2302							0.4%		14,557.16
3.2.3.3.D.1.i.3.46	Sour Water Surge Drum	Nos	1	118-V-0001							3.9%		14,88,122.07
3.2.3.3.D.1.i.3.47	1 St Stage Reboiler Condensate Drum	Nos	1	118-V-0002							0.2%		64,700.96
3.2.3.3.D.1.i.3.48	2Nd Stage Reboiler Condensate Drum	Nos	1	118-V-0003							0.2%		58,230.86
3.2.3.3.D.1.i.3.49	Skimmed Oil Drums	Nos	2	118-V-0004A/B							1.7%		6,47,009.60
3.2.3.3.D.1.i.3.50	Close Blow Down	Nos	1	118-V-0005							0.8%		3,23,504.80
3.2.3.3.D.1.i.3.51	Sour Water Surge Drum	Nos	1	119-V-0001							7.3%		28,11,256.70
3.2.3.3.D.1.i.3.52	Reboiler Condensate Drums	Nos	2	119-V-0002 A/B							0.5%		2,07,043.07
3.2.3.3.D.1.i.3.53	Sour Water Blow Down Drum	Nos	1	119-V-0003							3.6%		13,91,070.63
3.2.3.3.D.1.i.3.54	Skimmed Oil Drum	Nos	1	119-V-0004							0.7%		2,81,449.17
3.2.3.3.D.1.i.4	Heat Exchangers Including Hydrotest, If Any.	Nos	57								9.75%		3,58,76,763.00
3.2.3.3.D.1.i.4.1	Rich/Lean Amine Exchangers (Train-1)	Nos	4	120-E-1001 A/B/C/D							3.1%		11,22,512.20
3.2.3.3.D.1.i.4.2	Amine Regenerator Reboiler (Train-1)	Nos	2	120-E-1002 A/B							7.7%		27,46,321.92
3.2.3.3.D.1.i.4.3	Lean Amine Trim Cooler (Train-1)	Nos	2	120-E-1003 A/B							5.0%		18,10,146.75
3.2.3.3.D.1.i.4.4	Rich/Lean Amine Exchangers (Train-2)	Nos	4	120-E-2001 A/B/C/D							3.1%		11,22,512.20
3.2.3.3.D.1.i.4.5	Amine Regenerator Reboiler (Train-2)	Nos	2	120-E-2002 A/B							7.7%		27,46,321.92
3.2.3.3.D.1.i.4.6	Lean Amine Trim Cooler (Train-2)	Nos	2	120-E-2003 A/B							5.0%		18,10,146.75
3.2.3.3.D.1.i.4.7	Mdea Regenerator Reboiler Condensate Pot	Nos	1	121-E-0201							1.3%		4,64,993.83
3.2.3.3.D.1.i.4.8	Rich/Lean Mdea Exchangers	Nos	2	121-E-0202 A/B							0.9%		3,23,064.49
3.2.3.3.D.1.i.4.9	Lean Mdea Trim Cooler	Nos	1	121-E-0203							0.8%		3,04,652.55
3.2.3.3.D.1.i.4.10	First Sulphur Condenser (Train 1 & 2)	Nos	1	121-E-1001							2.4%		8,50,097.65
3.2.3.3.D.1.i.4.11	First Stage Reheater (Train- 1 & 2)	Nos	1	121-E-1002A							1.8%		6,33,918.23
3.2.3.3.D.1.i.4.12	Second Sulphur Condenser (Train 1 & 2)	Nos	1	121-E-1003							2.5%		8,82,951.67
3.2.3.3.D.1.i.4.13	Second Stage Reheater (Train- 1 & 2)	Nos	1	121-E-1004							1.3%		4,50,182.15
3.2.3.3.D.1.i.4.14	Final Sulphur Condenser (Train 1 & 2)	Nos	1	121-E-1005							2.4%		8,72,000.33
3.2.3.3.D.1.i.4.15	Acid Gas Preheater (Train-1 & 2)	Nos	1	121-E-1006							1.1%		3,95,699.24
3.2.3.3.D.1.i.4.16	Claus Air Preheater (Train-1 & 2)	Nos	1	121-E-1007							1.3%		4,68,908.94
3.2.3.3.D.1.i.4.17	Incinerator Air Preheater (Train-1 & 2)	Nos	1	121-E-1008							0.8%		2,93,605.39
3.2.3.3.D.1.i.4.18	Hydrogenation Heater (Train-1 & 2)	Nos	1	121-E-1101							1.9%		6,82,268.39
3.2.3.3.D.1.i.4.19	Hydrogenation Cooler (Train-1 & 2)	Nos	1	121-E-1102							2.3%		8,28,194.98
3.2.3.3.D.1.i.4.20	Quench Water Trim Cooler (Train-1 & 2)	Nos	1	121-E-1103							2.1%		7,57,942.14
3.2.3.3.D.1.i.4.21	Blow Down Cooler (Train-1 & 2)	Nos	1	121-E-1301							0.0%		14,510.52
3.2.3.3.D.1.i.4.22	First Sulphur Condenser (Train 1 & 2)	Nos	1	121-E-2001							2.4%		8,50,097.65
3.2.3.3.D.1.i.4.23	First Stage Reheater (Train- 1 & 2)	Nos	1	121-E-2002									



## **CONSTRUCTION : EQUIPMENT**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
					INR							INR
3.2.3.3.D.1.i.4.25	Second Stage Reheater (Train- 1 & 2)	Nos	1	121-E-2004						1.3%		4,50,182,15
3.2.3.3.D.1.i.4.26	Final Sulphur Condenser (Train 1 & 2)	Nos	1	121-E-2005						2.4%		8,72,000.33
3.2.3.3.D.1.i.4.27	Acid Gas Preheater (Train-1 & 2)	Nos	1	121-E-2006						1.1%		3,95,699.24
3.2.3.3.D.1.i.4.28	Claus Air Preheater ( Train-1 & 2)	Nos	1	121-E-2007						1.3%		4,68,908.94
3.2.3.3.D.1.i.4.29	Incinerator Air Preheater ( Train-1 & 2 )	Nos	1	121-E-2008						0.8%		2,93,605.39
3.2.3.3.D.1.i.4.30	Hydrogenation Heater ( Train-1 & 2 )	Nos	1	121-E-2101						1.9%		6,82,268.39
3.2.3.3.D.1.i.4.31	Hydrogenation Cooler ( Train-1 & 2 )	Nos	1	121-E-2102						2.3%		8,28,194.98
3.2.3.3.D.1.i.4.32	Quench Water Trim Cooler ( Train-1 & 2 )	Nos	1	121-E-2103						2.1%		7,57,942.14
3.2.3.3.D.1.i.4.33	Blow Down Cooler ( Train-1 & 2 )	Nos	1	121-E-2301						0.0%		14,510.52
3.2.3.3.D.1.i.4.34	1 St Stage Feed / 1st Stage Bottom Exchanger	Nos	2	118-E-0001 A/B						4.3%		15,34,775.34
3.2.3.3.D.1.i.4.35	1 St Stage Steam Reboiler	Nos	1	118-E-0002						0.5%		1,71,402.14
3.2.3.3.D.1.i.4.36	2 Nd Stage Steam Reboiler	Nos	1	118-E-0003						1.3%		4,71,947.93
3.2.3.3.D.1.i.4.37	Stripper Water Cooler	Nos	1	118-E-0004						0.4%		1,58,589.07
3.2.3.3.D.1.i.4.38	1 St Stage Feed 2 Nd Stage Bottom Exchanger	Nos	2	118-E-0005 A/B						4.2%		15,15,720.01
3.2.3.3.D.1.i.4.39	Feed / Bottom Heat Exchanger	Nos	2	119-E-0001 A/B						6.3%		22,50,773.85
3.2.3.3.D.1.i.4.40	Steam Reboiler	Nos	2	119-E-0002 A/B						4.3%		15,25,740.48
3.2.3.3.D.1.i.4.41	Stripped Water Cooler	Nos	2	119-E-0003 A/B						4.3%		15,36,582.31
3.2.3.3.D.1.i.5	<b>Filters</b>	Nos	31							3.25%		1,19,58,921.00
3.2.3.3.D.1.i.5.1	Rich Amine Cartridge Filter	Nos	2	120-G-1001 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.2	Lean Amine Cartridge Filter	Nos	2	120-G-1002 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.3	Carbon Bed Filter	Nos	1	120-G-1003						3.2%		3,85,771.65
3.2.3.3.D.1.i.5.4	Polishing Filters	Nos	2	120-G-1004 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.5	Rich Amine Cartridge Filter	Nos	2	120-G-2001 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.6	Lean Amine Cartridge Filter	Nos	2	120-G-2002 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.7	Carbon Bed Filter	Nos	1	120-G-2003						3.2%		3,85,771.65
3.2.3.3.D.1.i.5.8	Polishing Filters	Nos	2	120-G-2004 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.9	Lean MDEA Particle Filters	Nos	2	121-G-0201 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.10	Lean MDEA Carbon Filters	Nos	1	121-G-0202						3.2%		3,85,771.65
3.2.3.3.D.1.i.5.11	Lean MDEA Polishing Filters	Nos	2	121-G-0203 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.12	MDEA Make up Filters	Nos	2	121-G-0204 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.13	Quench Water Filters	Nos	2	121-G-1101 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.14	Rich MDEA Filters	Nos	2	121-G-1201 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.15	Quench Water Filters	Nos	2	121-G-2101 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.16	Rich MDEA Filters	Nos	2	121-G-2201 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.5.17	Amine Sump Filters	Nos	2	120-G-0001 A/B						6.5%		7,71,543.29
3.2.3.3.D.1.i.6	<b>Air Coolers</b>	Nos	16							7.80%		2,87,01,410.40
3.2.3.3.D.1.i.6.1	Amine Regenerator OVHD Condensor	Nos	1	120-A-1001						9.4%		26,92,019.11
3.2.3.3.D.1.i.6.2	Lean Amine Air Cooler	Nos	1	120-A-1002						10.5%		30,06,088.01
3.2.3.3.D.1.i.6.3	Amine Regenerator OVHD Condensor	Nos	1	120-A-2001						9.4%		26,92,019.11
3.2.3.3.D.1.i.6.4	Lean Amine Air Cooler	Nos	1	120-A-2002						10.5%		30,06,088.01
3.2.3.3.D.1.i.6.5	Lean MDEA Air Cooler	Nos	1	121-A-0201						4.8%		13,68,443.05
3.2.3.3.D.1.i.6.6	MDEA Regenerator Air Condensor	Nos	1	121-A-0202						5.5%		15,70,344.48
3.2.3.3.D.1.i.6.7	Flash Steam Condensor	Nos	1	121-A-0301						5.5%		15,70,344.48
3.2.3.3.D.1.i.6.8	LLP Steam condensor	Nos	1	121-A-1001						1.6%		4,48,669.85
3.2.3.3.D.1.i.6.9	Quench Water Air Cooler	Nos	1	121-A-1101						5.4%		15,47,910.99
3.2.3.3.D.1.i.6.10	LLP Steam condensor	Nos	1	121-A-2001						1.6%		4,48,669.85
3.2.3.3.D.1.i.6.11	Quench Water Air Cooler	Nos	1	121-A-2101						5.4%		15,47,910.99
3.2.3.3.D.1.i.6.12	1st Stage pump around Air Cooler	Nos	1	118-A-0001						3.0%		8,61,446.11
3.2.3.3.D.1.i.6.13	2nd Stage pump around Air Cooler	Nos	1	118-A-0002						7.3%		21,08,748.30
3.2.3.3.D.1.i.6.14	Stripped Water Air Cooler	Nos	1	118-A-0003						5.6%		16,15,211.47
3.2.3.3.D.1.i.6.15	Pump around Air Cooler	Nos	1	119-A-0001						8.1%		23,33,083.23
3.2.3.3.D.1.i.6.16	Stripped Water Air Cooler	Nos	1	119-A-0002						6.6%		18,84,413.38
3.2.3.3.D.1.i.7	<b>Reactors</b>	Nos	4							7.80%		2,87,01,410.40
3.2.3.3.D.1.i.7.1	Claus Catalytic Reactor (Train-1)	Nos	1	121-R-1001						34.35%		98,59,263.11
3.2.3.3.D.1.i.7.2	Claus Catalytic Reactor (Train-2)	Nos	1	121-R-1002						34.35%		98,59,263.11

**BINAY KUMAR**  
Engineer  
Suresh Engineers India Limited  
Designer

पी श्रीधर/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एफ सी बेरहा F C BEHERA  
महापूर्ण (प्रबन्धी) General Manager (Construction)  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
भारत एवं विदेश BBB-Banquet

D. Nitish Dabhi

**DRONAMRAJU RAMARAO VRS**  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

#### **CONSTRUCTION : EQUIPMENT**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN										
NAME OF CONTRACTOR	M/s MEIL										
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED										
NAME OF PMC	ENGINEERS INDIA LIMITED										
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021										
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	Amount as per BBU
					INR						INR
3.2.3.3.D.1.i.7.3	Hydrogenation Reactor (Train-1)	Nos	1	121-R-1101						15.65%	44,91,442.0
3.2.3.3.D.1.i.7.4	Hydrogenation Reactor (Train-2)	Nos	1	121-R-2101						15.65%	44,91,442.0
<b>3.2.3.3.D.1.i.8</b>	<b>Pumps</b>	<b>Nos</b>	<b>89</b>							<b>11.25%</b>	<b>4,13,96,265.00</b>
3.2.3.3.D.1.ii.1.1	Sour water transfer pumps	Nos	2	118-P-0001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.2	Stripper feed pumps	Nos	2	118-P-0002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.3	Stripper water pumps	Nos	2	118-P-0003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.4	1st Stage pump around pumps	Nos	2	118-P-0004A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.5	2nd Stage pump around pumps	Nos	2	118-P-0006A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.6	Closed Blow Down pumps	Nos	2	118-P-0007A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.7	Sour water transfer pumps	Nos	2	119-P-0001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.8	Stripper feed pumps	Nos	2	119-P-0002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.9	Stripper water pumps	Nos	2	119-P-0003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.10	pump around pumps	Nos	2	119-P-0004A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.11	Sour water blow down pumps	Nos	2	119-P-0005A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.12	Lean Amine export- I pumps	Nos	2	120-P-0001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.13	Lean Amine export- II pumps	Nos	2	120-P-0002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.14	Amine sump pumps	Nos	2	120-P-0003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.15	Acid flare KOD pumps	Nos	2	120-P-0004A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.16	Rich Amine pumps	Nos	2	120-P-1001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.17	Amine Regenerator Reflux pumps	Nos	2	120-P-1002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.18	Lean Amine transfer pumps	Nos	2	120-P-1003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.19	Rich Amine pumps	Nos	2	120-P-2001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.20	Amine Regenerator Reflux pumps	Nos	2	120-P-2002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.21	Lean Amine transfer pumps	Nos	2	120-P-2003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.22	Sulphur storage pumps	Nos	2	121-P-0001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.23	Rich MDEA Circulation Pumps	Nos	2	121-P-0201A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.24	Lean MDEA Circulation Pumps	Nos	2	121-P-0202A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.25	Lean MDEA Feed Pumps	Nos	3	121-P-0203A/B/C						3.37%	13,95,379.72
3.2.3.3.D.1.ii.1.26	Regenerator Reflux Pumps	Nos	2	121-P-0204A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.27	MDEA Sump pumps	Nos	2	121-P-0205A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.28	HP BFW Pumps	Nos	3	121-P-0301A/B/C						3.37%	13,95,379.72
3.2.3.3.D.1.ii.1.29	LP BFW Pumps	Nos	3	121-P-0302A/B/C						3.37%	13,95,379.72
3.2.3.3.D.1.ii.1.30	Acid Water Pumps	Nos	2	121-P-1001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.31	Acid Water Pumps	Nos	2	121-P-1002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.32	Acid Water Pumps	Nos	2	121-P-1003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.33	Sulphur transfer pumps	Nos	2	121-P-1004A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.34	Incinerator Air Preheater Condensate pump	Nos	2	121-P-1005A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.35	Quench Water Pumps	Nos	2	121-P-1101A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.36	Rich MDEA Transfer Pumps	Nos	2	121-P-1201A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.37	Acid Water Pumps	Nos	2	121-P-2001A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.38	Acid Water Pumps	Nos	2	121-P-2002A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.39	Acid Water Pumps	Nos	2	121-P-2003A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.40	Sulphur transfer pumps	Nos	2	121-P-2004A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.41	Incinerator Air Preheater Condensate pump	Nos	2	121-P-2005A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.42	Quench Water Pumps	Nos	2	121-P-2101A/B						2.25%	9,30,253.15
3.2.3.3.D.1.ii.1.43	Rich MDEA Transfer Pumps	Nos	2	121-P-2201A/B						2.25%	9,30,253.15
<b>3.2.3.3.D.1.ii.9</b>	<b>Blowers</b>	<b>Nos</b>	<b>8</b>							<b>3.75%</b>	<b>1,37,98,755.00</b>
3.2.3.3.D.1.ii.2.1	Main Blowers - Train-I	Nos	2	121-K-1001A/B						25.00%	34,49,688.75
3.2.3.3.D.1.ii.2.2	Incinerator Package - Train-I	Nos	2	121-K-1002A/B						25.00%	34,49,688.75
3.2.3.3.D.1.ii.2.3	Main Blowers - Train-II	Nos	2	121-K-2001A/B						25.00%	34,49,688.75
3.2.3.3.D.1.ii.2.4	Incinerator Package - Train-II	Nos	2	121-K-2002A/B						25.00%	34,49,688.75
<b>3.2.3.3.D.1.ii.10</b>	<b>Dosing system</b>	<b>Nos</b>	<b>9</b>							<b>3.16%</b>	<b>1,16,20,004.21</b>
3.2.3.3.D.1.ii.1.1	Antifoam Injection Package	Nos	1	120-LZ-0001						11.11%	12,91,111.50
3.2.3.3.D.1.ii.1.2	Amine Unloading Package	Nos	1	120-LZ-0002						11.11%	12,91,111.50
3.2.3.3.D.1.ii.1.3	MDEA Antifoam Package	Nos	1	121-LZ-0201						11.11%	12,91,111.50

पाण्डित/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी बेहो  
महापुरवेदिक  
इंजीनियर्स इंडिया लिमिटेड  
सार आप मि. विजय  
F.C. BEHERA  
General Manager (Construction)  
Engineers India Limited  
R.P.D. Behera

D. Nitish Reddy

  
DR. NAMRAJU RAMARAO VRS  
उप महाप्रबंधक - पर्यावरण  
Deputy General Manager - Projects  
एनडीसीएल राजस्थान रिपाइनरी लिमिटेड  
HPCL Rajasthan Re-Entry Limited

## CONSTRUCTION : EQUIPMENT

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN										
NAME OF CONTRACTOR	M/s MEIL										
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED										
NAME OF PMC	ENGINEERS INDIA LIMITED										
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021										
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	Amount as per BBU
					INR						INR
3.2.3.3.D.1.iii.1.4	TSP Injection Package	Nos	1	121-LZ-0303						11.11%	12,91,111.5
3.2.3.3.D.1.iii.1.5	Quench water PH Control Package	Nos	1	121-LZ-1101						11.11%	12,91,111.5
3.2.3.3.D.1.iii.1.6	Quench water PH Control Package	Nos	1	121-LZ-2101						11.11%	12,91,111.5
3.2.3.3.D.1.iii.1.7	Antifoam Injection Package	Nos	1	118-LZ-0001						11.11%	12,91,111.5
3.2.3.3.D.1.iii.1.8	Antifoam Injection Package	Nos	1	119-LZ-0001						11.11%	12,91,111.5
3.2.3.3.D.1.iii.1.9	Corrosion Inheator Injection Package	Nos	1	119-LZ-0002						11.11%	12,91,111.5
<b>3.2.3.3.D.1.i.11</b>	<b>Desuperheaters</b>	<b>Nos</b>	<b>9</b>							<b>3.16%</b>	<b>1,16,20,004.2</b>
3.2.3.3.D.1.iii.2.1	Reboiler Desuperheater	Nos	1	120-LZ-1001						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.2	Reboiler Desuperheater	Nos	1	120-LZ-2001						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.3	MDEA Regeneration Reboiler Desuperheater	Nos	1	121-LZ-0202						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.4	HP Steam Desuperheater	Nos	1	121-LZ-0305						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.5	Tracing/Jacketing Steam Desuperheater	Nos	1	121-LZ-0306						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.6	1 st Stage Desuperheater	Nos	1	118-LZ-0002						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.7	2 nd Stage Desuperheater	Nos	1	118-LZ-0003						11.11%	12,91,111.5
3.2.3.3.D.1.iii.2.8	Reboiler Desuperheater	Nos	2	119-LZ-0003 A/B						22.22%	25,82,223.1
<b>3.2.3.3.D.1.i.12</b>	<b>Sulphur Loading arm</b>	<b>Nos</b>	<b>4</b>							<b>1.40%</b>	<b>51,64,446.3</b>
3.2.3.3.D.1.iii.3.1	Sulphur Loading ARMS	Nos	4	121-LZ-0001 A/B/C/D						100.00%	51,64,446.3
<b>3.2.3.3.D.1.i.13</b>	<b>Ejectors</b>	<b>Nos</b>	<b>6</b>							<b>2.11%</b>	<b>77,46,669.4</b>
3.2.3.3.D.1.iii.4.1	Degassing Steam Ejectors Train-1	Nos	2	121-J-1001A/B						33.33%	25,82,223.1
3.2.3.3.D.1.iii.4.2	Start up Ejectors Train-1	Nos	1	121-J-1101						16.67%	12,91,111.5
3.2.3.3.D.1.iii.4.3	Degassing Steam Ejectors Train-2	Nos	2	121-J-2001A/B						33.33%	25,82,223.1
3.2.3.3.D.1.iii.4.4	Start up Ejectors Train-2	Nos	1	121-J-2101						16.67%	12,91,111.5
<b>3.2.3.3.D.1.i.14</b>	<b>Seal Traps</b>	<b>Nos</b>	<b>10</b>							<b>3.51%</b>	<b>1,29,11,115.7</b>
3.2.3.3.D.1.iii.5.1	First Sulphur Seal Trap	Nos	1	121-LZ-1004						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.2	Second Sulphur Seal Trap	Nos	1	121-LZ-1005						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.3	Third Sulphur Seal Trap	Nos	1	121-LZ-1006						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.4	Fourth Sulphur Seal Trap	Nos	1	121-LZ-1007						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.5	Spare Sulphur Seal Trap	Nos	1	121-LZ-1008						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.6	First Sulphur Seal Trap Train-2	Nos	1	121-LZ-2004						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.7	Second Sulphur Seal Trap Train-2	Nos	1	121-LZ-2005						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.8	Third Sulphur Seal Trap Train-2	Nos	1	121-LZ-2006						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.9	Fourth Sulphur Seal Trap Train-2	Nos	1	121-LZ-2007						10.00%	12,91,111.5
3.2.3.3.D.1.iii.5.10	Spare Sulphur Seal Trap Train-2	Nos	1	121-LZ-2008						10.00%	12,91,111.5
<b>3.2.3.3.D.1.i.15</b>	<b>Incinerator Package</b>	<b>Nos</b>	<b>6</b>							<b>2.11%</b>	<b>77,46,669.4</b>
3.2.3.3.D.1.iii.6.1	Incinerator Train-1	Nos	1	121-FI-1001						16.67%	12,91,111.5
3.2.3.3.D.1.iii.6.2	Incinerator Train-2	Nos	1	121-FI-2001						16.67%	12,91,111.5
3.2.3.3.D.1.iii.6.3	Stack-1	Nos	1	121-LS-1001						16.67%	12,91,111.5
3.2.3.3.D.1.iii.6.4	Stack-2	Nos	1	121-LS-2001						16.67%	12,91,111.5
3.2.3.3.D.1.iii.6.5	Incinerator Burner-1	Nos	1	121-LZ-1003						16.67%	12,91,111.5
3.2.3.3.D.1.iii.6.6	Incinerator Burner-2	Nos	1	121-LZ-2003						16.67%	12,91,111.5
<b>3.2.3.3.D.1.i.16</b>	<b>Waste Heat Boiler</b>	<b>Nos</b>	<b>2</b>							<b>0.70%</b>	<b>25,82,223.1</b>
3.2.3.3.D.1.iii.7.1	Waste Heat Boiler	Nos	1	121-LW-1001						50.00%	12,91,111.5
3.2.3.3.D.1.iii.7.2	Waste Heat Boiler	Nos	1	121-LW-2001						50.00%	12,91,111.5
<b>3.2.3.3.D.1.i.17</b>	<b>Waste Heat Recovery Package</b>	<b>Nos</b>	<b>4</b>							<b>1.40%</b>	<b>51,64,446.3</b>
3.2.3.3.D.1.iii.8.1	Incinerator Waste Heat Recovery System Train-1	Nos	1	121-LW-1002						25.00%	12,91,111.5
3.2.3.3.D.1.iii.8.2	Incinerator Waste Heat Recovery System Train-2	Nos	1	121-LW-2002						25.00%	12,91,111.5
3.2.3.3.D.1.iii.8.3	Waste Heat Recovery Package Train-1	Nos	1	121-LZ-1009						25.00%	12,91,111.5
3.2.3.3.D.1.iii.8.4	Waste Heat Recovery Package Train-2	Nos	1	121-LZ-2009						25.00%	12,91,111.5
<b>3.2.3.3.D.1.i.18</b>	<b>BFW Package</b>	<b>Nos</b>	<b>3</b>							<b>1.03%</b>	<b>38,73,334.74</b>
3.2.3.3.D.1.iii.9.1	BFW PH Control Package	Nos	1	121-LZ-0301						33.33%	12,91,111.5
3.2.3.3.D.1.iii.9.2	BFW O2 Scavenger Package	Nos	1	121-LZ-0302						33.33%	12,91,111.5

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Limited  
  
पी श्रीधर/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियरिंग इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी रिपोर्ट 281 FC BEHERA  
महाप्रबंध (रिपोर्ट) General Manager (Construction)  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आरआरपी बारमेर RRP-Barmer

D. Nitish Tadagi

**D** इनामपत्र राज्य सरकार द्वारा  
DRO-AMRAJU RAO RAO MRS  
उप महाप्रबन्धक - परिवर्जनाते  
Deputy General Manager - Projects  
एवं प्रीति पल राजस्थान बिल्डर्स लिमिटेड  
HPCIL Rajasthan Building & Projects Limited

## **CONSTRUCTION : EQUIPMENT**

पी श्रीधर/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक सी ई  
महाराष्ट्रा  
इतिहासकारी एवं ऐतिहासिक संस्थान  
F C BEHERA  
प्रबन्धक (Construction)  
प्रभावशाली संस्था

D. Nitish Reddy

  
द्रोनमराजु रामराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक - परियंगजनाई  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited

## **CONSTRUCTION : EQUIPMENT**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
3.2.3.3.D.1.iii.9.3	BFW Package	Nos	1	121-LZ-0304	INR					33.33%		12,91,111,58
3.2.3.3.D.1.i.19	Reaction Furnace package	Nos	4						1.40%			51,64,446.32
3.2.3.3.D.1.iii.10.1	Reaction Furnace	Nos	1	121-LZ-1001						25.00%		12,91,111,58
3.2.3.3.D.1.iii.10.2	Reaction Furnace Burner	Nos	1	121-LZ-1002						25.00%		12,91,111,58
3.2.3.3.D.1.iii.10.3	Reaction Furnace	Nos	1	121-LZ-2001						25.00%		12,91,111,58
3.2.3.3.D.1.iii.10.4	Reaction Furnace Burner	Nos	1	121-LZ-2002						25.00%		12,91,111,58
3.2.3.3.D.2	Completion of Alignment & Grouting, on prorata basis				36,79,66,800.00	45.00%						36,79,66,800.00
3.2.3.3.D.2.i.1	Columns	Nos	12						20.80%			7,65,37,094.40
3.2.3.3.D.2.i.1.1	Flash Gas Absorber (Train-1)	Nos	1	120-C-1001						0.24%		1,87,179.60
3.2.3.3.D.2.i.1.2	Amine Regenerator (Train-1)	Nos	1	120-C-1002						13.83%		1,05,85,329.30
3.2.3.3.D.2.i.1.3	Flash Gas Absorber (Train-2)	Nos	1	120-C-2001						0.24%		1,87,179.60
3.2.3.3.D.2.i.1.4	Amine Regenerator (Train-2)	Nos	1	120-C-2002						13.83%		1,05,85,329.30
3.2.3.3.D.2.i.1.5	Mdea Regenerator	Nos	1	121-C-0201						4.89%		37,43,592.07
3.2.3.3.D.2.i.1.6	Quench Tower (Train-1)	Nos	1	121-C-1101						5.23%		40,01,770.83
3.2.3.3.D.2.i.1.7	Mdea Absorber (Train-1)	Nos	1	121-C-1201						4.39%		33,56,323.92
3.2.3.3.D.2.i.1.8	Quench Tower (Train-2)	Nos	1	121-C-2101						5.23%		40,01,770.83
3.2.3.3.D.2.i.1.9	Mdea Absorber (Train-2)	Nos	1	121-C-2201						4.39%		33,56,323.92
3.2.3.3.D.2.i.1.10	1 St Stage Sour Water Stripper	Nos	1	118-C-0001						13.66%		1,04,56,239.92
3.2.3.3.D.2.i.1.11	2 Nd Stage Sour Water Stripper	Nos	1	118-C-0002						11.81%		90,36,256.72
3.2.3.3.D.2.i.1.12	Sour Water Stripper-ii	Nos	1	119-C-0001						22.26%		1,70,39,798.38
3.2.3.3.D.2.i.2	Columns Internals(Alignment Only)	Nos	12						5.20%			1,91,34,273.60
3.2.3.3.D.2.i.2.1	Flash Gas Absorber (Train-1)	Nos	1	120-C-1001						0.24%		46,794.90
3.2.3.3.D.2.i.2.2	Amine Regenerator (Train-1)	Nos	1	120-C-1002						13.83%		26,46,332.32
3.2.3.3.D.2.i.2.3	Flash Gas Absorber (Train-2)	Nos	1	120-C-2001						0.24%		46,794.90
3.2.3.3.D.2.i.2.4	Amine Regenerator (Train-2)	Nos	1	120-C-2002						13.83%		26,46,332.32
3.2.3.3.D.2.i.2.5	Mdea Regenerator	Nos	1	121-C-0201						4.89%		9,35,898.02
3.2.3.3.D.2.i.2.6	Quench Tower (Train-1)	Nos	1	121-C-1101						5.23%		10,00,442.71
3.2.3.3.D.2.i.2.7	Mdea Absorber (Train-1)	Nos	1	121-C-1201						4.39%		8,39,080.98
3.2.3.3.D.2.i.2.8	Quench Tower (Train-2)	Nos	1	121-C-2101						5.23%		10,00,442.71
3.2.3.3.D.2.i.2.9	Mdea Absorber (Train-2)	Nos	1	121-C-2201						4.39%		8,39,080.98
3.2.3.3.D.2.i.2.10	1 St Stage Sour Water Stripper	Nos	1	118-C-0001						13.66%		26,14,059.98
3.2.3.3.D.2.i.2.11	2 Nd Stage Sour Water Stripper	Nos	1	118-C-0002						11.81%		22,59,064.18
3.2.3.3.D.2.i.2.12	Sour Water Stripper-ii	Nos	1	119-C-0001						22.26%		42,59,949.60
3.2.3.3.D.2.i.3	Pressure Vessels including Internals, If Any.	Nos	56						10.40%			3,82,68,547.20
3.2.3.3.D.2.i.3.1	Hydrocarbon Skim Drum	Nos	1	120-V-0001						0.39%		1,48,812.21
3.2.3.3.D.2.i.3.2	Amine Sump Drum	Nos	1	120-V-0003						3.64%		13,91,070.63
3.2.3.3.D.2.i.3.3	Acid Flare Knockout Drum	Nos	1	120-V-0004						3.92%		15,01,062.26
3.2.3.3.D.2.i.3.4	Rich Amine Flash Drum (Train-1)	Nos	1	120-V-1001						16.10%		61,59,531.36
3.2.3.3.D.2.i.3.5	Reboiler Condensate Drum (Train-1)	Nos	1	120-V-1002						0.68%		2,58,803.84
3.2.3.3.D.2.i.3.6	Amine Regenerator Reflux Drum (Train-1)	Nos	1	120-V-1003						1.05%		4,01,145.95
3.2.3.3.D.2.i.3.7	Rich Amine Flash Drum (Train-2)	Nos	1	120-V-2001						16.10%		61,59,531.36
3.2.3.3.D.2.i.3.8	Reboiler Condensate Drum (Train-2)	Nos	1	120-V-2002						0.68%		2,58,803.84
3.2.3.3.D.2.i.3.9	Amine Regenerator Reflux Drum (Train-2)	Nos	1	120-V-2003						1.05%		4,01,145.95
3.2.3.3.D.2.i.3.10	Fuel Gas Ko Drum	Nos	1	121-V-0001						0.19%		74,406.10
3.2.3.3.D.2.i.3.11	Instrument Air Ko Drum	Nos	1	121-V-0002						0.14%		54,995.82
3.2.3.3.D.2.i.3.12	Rich Mdea Drum	Nos	1	121-V-0201						2.11%		8,08,762.00
3.2.3.3.D.2.i.3.13	Regenerator Overhead Drum	Nos	1	121-V-0202						0.29%		1,09,991.63
3.2.3.3.D.2.i.3.14	Mdea Regenerator Reboiler Condensate Pot	Nos	1	121-V-0203						5.74%		21,97,762.20
3.2.3.3.D.2.i.3.15	Mdea Sump Drum	Nos	1	121-V-0204						3.04%		11,64,617.27
3.2.3.3.D.2.i.3.16	Hp Condensate Drum	Nos	1	121-V-0301						0.34%		1,29,401.92
3.2.3.3.D.2.i.3.17	Dcaerator	Nos	1	121-V-0302						0.34%		1,29,401.92
3.2.3.3.D.2.i.3.18	Aru Acid Gas Ko Drum (Train-1)	Nos	1	121-V-1001						0.46%		1,77,927.64
3.2.3.3.D.2.i.3.19	H2S Rich Sour Gas Ko Drum (Train-1)	Nos	1	121-V-1002						0.30%		1,16,461.73

Project - 2020  
HRM: rachna@phd

H2S Rich Sour Gas Ko Drum (Train)  
BinaN KUMAR  
For neat  
Ghans Engineers India Limited  
Kukkarbari


 पी श्रीधर / P. Sridhar  
 वरिष्ठ प्रबंधक / Sr. Manager  
 इंजीनियर्स इंडिया लिमिटेड  
 ENGINEERS INDIA LIMITED

एफ सी बेहरा  
महापुर्वयक्ति (प्रभारी) General Manager (Construction)  
इंजीनियर्स इंडिया लिमिटेड. Engineers India Limited

D. Nitish Reddy

0.30%  
  
Dr. VAMRAJU RAMARAO VRS  
उप महाप्रबक्त - परिवर्तन एवं  
Deputy General Manager - Project  
स्थानीय राजस्थान रिफाइनरी  
PSI Rajasthan Refinery



CONSTRUCTION : EQUIPMENT

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
					INR							INR
3.2.3.3.D.2.I.4.21	Blow Down Cooler ( Train-1 & 2 )	Nos	1	121-E-1301						0.04%		14,510.52
3.2.3.3.D.2.I.4.22	First Sulphur Condenser ( Train 1 & 2 )	Nos	1	121-E-2001						2.37%		8,50,097.65
3.2.3.3.D.2.I.4.23	First Stage Reheater ( Train- 1 & 2 )	Nos	1	121-E-2002						1.77%		6,33,918.23
3.2.3.3.D.2.I.4.24	Second Sulphur Condenser ( Train 1 & 2 )	Nos	1	121-E-2003						2.46%		8,82,951.67
3.2.3.3.D.2.I.4.25	Second Stage Reheater ( Train- 1 & 2 )	Nos	1	121-E-2004						1.25%		4,50,182.15
3.2.3.3.D.2.I.4.26	Final Sulphur Condenser ( Train 1 & 2 )	Nos	1	121-E-2005						2.43%		8,72,000.33
3.2.3.3.D.2.I.4.27	Acid Gas Preheater ( Train-1 & 2 )	Nos	1	121-E-2006						1.10%		3,95,699.24
3.2.3.3.D.2.I.4.28	Claus Air Preheater ( Train-1 & 2 )	Nos	1	121-E-2007						1.31%		4,68,908.94
3.2.3.3.D.2.I.4.29	Incinerator Air Preheater ( Train-1 & 2 )	Nos	1	121-E-2008						0.82%		2,93,605.39
3.2.3.3.D.2.I.4.30	Hydrogenation Heater ( Train-1 & 2 )	Nos	1	121-E-2101						1.90%		6,82,268.39
3.2.3.3.D.2.I.4.31	Hydrogenation Cooler ( Train-1 & 2 )	Nos	1	121-E-2102						2.31%		8,28,194.98
3.2.3.3.D.2.I.4.32	Quench Water Trim Cooler ( Train-1 & 2 )	Nos	1	121-E-2103						2.11%		7,57,942.14
3.2.3.3.D.2.I.4.33	Blow Down Cooler ( Train-1 & 2 )	Nos	1	121-E-2301						0.04%		14,510.52
3.2.3.3.D.2.I.4.34	1 St Stage Feed / 1st Stage Bottom Exchanger	Nos	2	118-E-0001 A/B						4.28%		15,34,775.34
3.2.3.3.D.2.I.4.35	1 St Stage Steam Reboiler	Nos	1	118-E-0002						0.48%		1,71,402.14
3.2.3.3.D.2.I.4.36	2 Nd Stage Steam Reboiler	Nos	1	118-E-0003						1.32%		4,71,947.93
3.2.3.3.D.2.I.4.37	Stripper Water Cooler	Nos	1	118-E-0004						0.44%		1,58,589.07
3.2.3.3.D.2.I.4.38	1 St Stage Feed 2 Nd Stage Bottom Exchanger	Nos	2	118-E-0005 A/B						4.22%		15,15,720.01
3.2.3.3.D.2.I.4.39	Feed / Bottom Heat Exchanger	Nos	2	119-E-0001 A/B						6.27%		22,50,773.85
3.2.3.3.D.2.I.4.40	Steam Reboiler	Nos	2	119-E-0002 A/B						4.25%		15,25,740.48
3.2.3.3.D.2.I.4.41	Stripped Water Cooler	Nos	2	119-E-0003 A/B						4.28%		15,36,582.31
3.2.3.3.D.2.I.5	Filters	Nos	31							3.25%		1,19,58,921.00
3.2.3.3.D.2.I.5.1	Rich Amine Cartridge Filter	Nos	2	120-G-1001 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.2	Lean Amine Cartridge Filter	Nos	2	120-G-1002 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.3	Carbon Bed Filter	Nos	2	120-G-1003 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.4	Polishing Filters	Nos	2	120-G-1004 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.5	Rich Amine Cartridge Filter	Nos	2	120-G-2001 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.6	Lean Amine Cartridge Filter	Nos	2	120-G-2002 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.7	Carbon Bed Filter	Nos	2	120-G-2003 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.8	Polishing Filters	Nos	2	120-G-2004 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.9	Lean MDEA Particle Filters	Nos	2	121-G-0201 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.10	Lean MDEA Carbon Filters	Nos	1	121-G-0202						3.23%		3,85,771.65
3.2.3.3.D.2.I.5.11	Lean MDEA Polishing Filters	Nos	2	121-G-0203 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.12	MDEA Make up Filters	Nos	2	121-G-0204 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.13	Quench Water Filters	Nos	2	121-G-1101 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.14	Rich MDEA Filters	Nos	2	121-G-1201 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.15	Quench Water Filters	Nos	2	121-G-2101 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.5.16	Rich MDEA Filters	Nos	2	121-G-2201 A/B						6.45%		7,71,543.29
3.2.3.3.D.2.I.6	Air Coolers	Nos	16							7.80%		2,87,01,410.40
3.2.3.3.D.2.I.6.1	Amine Regenerator OVHD Condensor	Nos	1	120-A-1001						9.38%		26,92,019.11
3.2.3.3.D.2.I.6.2	Lean Amine Air Cooler	Nos	1	120-A-1002						10.47%		30,06,088.01
3.2.3.3.D.2.I.6.3	Amine Regenerator OVHD Condensor	Nos	1	120-A-2001						9.38%		26,92,019.11
3.2.3.3.D.2.I.6.4	Lean Amine Air Cooler	Nos	1	120-A-2002						10.47%		30,06,088.01
3.2.3.3.D.2.I.6.5	Lean MDEA Air Cooler	Nos	1	121-A-0201						4.77%		13,68,443.05
3.2.3.3.D.2.I.6.6	MDEA Regenerator Air Condensor	Nos	1	121-A-0202						5.47%		15,70,344.48
3.2.3.3.D.2.I.6.7	Flash Steam Condensor	Nos	1	121-A-0301						5.47%		15,70,344.48
3.2.3.3.D.2.I.6.8	LLP Steam condensor	Nos	1	121-A-1001						1.56%		4,48,669.85
3.2.3.3.D.2.I.6.9	Quench Water Air Cooler	Nos	1	121-A-1101						5.39%		15,47,910.99
3.2.3.3.D.2.I.6.10	LLP Steam condensor	Nos	1	121-A-2001						1.56%		4,48,669.85
3.2.3.3.D.2.I.6.11	Quench Water Air Cooler	Nos	1	121-A-2101						5.39%		15,47,910.99
3.2.3.3.D.2.I.6.12	1st Stage pump around Air Cooler	Nos	1	118-A-0001						3.00%		8,61,446.11
3.2.3.3.D.2.I.6.13	2nd Stage pump around Air Cooler	Nos	1	118-A-0002						7.35%		21,08,748.30
3.2.3.3.D.2.I.6.14	Stripped Water Air Cooler	Nos	1	118-A-0003						5.63%		16,15,211.47
3.2.3.3.D.2.I.6.15	Pump around Air Cooler	Nos	1	119-A-0001						8.13%		23,33,083.23
3.2.3.3.D.2.I.6.16	Stripped Water Air Cooler	Nos	1	119-A-0002						6.57%		18,84,413.38

Engineering & Industry  
Project - 2020  
Bharat Petroleum Corporation Limited  
Bharat Petroleum Corporation Limited  
Bharat Petroleum Corporation Limited

Binay Kumar  
Engineer  
Engineers India Limited  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

पी.श्रीधर/P. Sridhar  
वरिष्ठ प्रबंधक



CONSTRUCTION : EQUIPMENT

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN										
NAME OF CONTRACTOR	M/s MEIL										
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED										
NAME OF PMC	ENGINEERS INDIA LIMITED										
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021										
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	Amount as per BBU
					INR						INR
3.2.3.3.D.2.i.7	Reactors	Nos	4						7.80%		2,87,01,410.40
3.2.3.3.D.2.i.7.1	Claus Catalytic Reactor (Train-1)	Nos	1	121-R-1001					34.35%		98,59,263.11
3.2.3.3.D.2.i.7.2	Claus Catalytic Reactor (Train-2)	Nos	1	121-R-1002					34.35%		98,59,263.11
3.2.3.3.D.2.i.7.3	Hydrogenation Reactor (Train-1)	Nos	1	121-R-1101					15.65%		44,91,442.09
3.2.3.3.D.2.i.7.4	Hydrogenation Reactor (Train-2)	Nos	1	121-R-2101					15.65%		44,91,442.09
3.2.3.3.D.2.i.8	Pumps	Nos	89					11.25%			4,13,96,265.00
3.2.3.3.D.2.i.1.1	Sour water transfer pumps	Nos	2	118-P-0001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.2	Stripper feed pumps	Nos	2	118-P-0002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.3	Stripper water pumps	Nos	2	118-P-0003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.4	1st Stage pump around pumps	Nos	2	118-P-0004A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.5	2nd Stage pump around pumps	Nos	2	118-P-0006A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.6	Closed Blow Down pumps	Nos	2	118-P-0007A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.7	Sour water transfer pumps	Nos	2	119-P-0001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.8	Stripper feed pumps	Nos	2	119-P-0002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.9	Stripper water pumps	Nos	2	119-P-0003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.10	pump around pumps	Nos	2	119-P-0004A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.11	Sour water blow down pumps	Nos	2	119-P-0005A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.12	Lean Amine export- I pumps	Nos	2	120-P-0001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.13	Lean Amine export- II pumps	Nos	2	120-P-0002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.14	Amine sump pumps	Nos	2	120-P-0003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.15	Acid flare KOD pumps	Nos	2	120-P-0004A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.16	Rich Amine pumps	Nos	2	120-P-1001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.17	Amine Regenerator Reflux pumps	Nos	2	120-P-1002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.18	Lean Amine transfer pumps	Nos	2	120-P-1003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.19	Rich Amine pumps	Nos	2	120-P-2001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.20	Amine Regenerator Reflux pumps	Nos	2	120-P-2002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.21	Lean Amine transfer pumps	Nos	2	120-P-2003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.22	Sulphur storage pumps	Nos	2	121-P-0001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.23	Rich MDEA Circulation Pumps	Nos	2	121-P-0201A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.24	Lean MDEA Circulation Pumps	Nos	2	121-P-0202A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.25	Lean MDEA Feed Pumps	Nos	3	121-P-0203A/B/C					3.37%		13,95,379.72
3.2.3.3.D.2.i.1.26	Regenerator Reflux Pumps	Nos	2	121-P-0204A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.27	MDEA Sump pumps	Nos	2	121-P-0205A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.28	HP BFW Pumps	Nos	3	121-P-0301A/B/C					3.37%		13,95,379.72
3.2.3.3.D.2.i.1.29	LP BFW Pumps	Nos	3	121-P-0302A/B/C					3.37%		13,95,379.72
3.2.3.3.D.2.i.1.30	Acid Water Pumps	Nos	2	121-P-1001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.31	Acid Water Pumps	Nos	2	121-P-1002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.32	Acid Water Pumps	Nos	2	121-P-1003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.33	Sulphur transfer pumps	Nos	2	121-P-1004A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.34	Incinerator Air Preheater Condensate pump	Nos	2	121-P-1005A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.35	Quench Water Pumps	Nos	2	121-P-1101A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.36	Rich MDEA Transfer Pumps	Nos	2	121-P-1201A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.37	Acid Water Pumps	Nos	2	121-P-2001A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.38	Acid Water Pumps	Nos	2	121-P-2002A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.39	Acid Water Pumps	Nos	2	121-P-2003A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.40	Sulphur transfer pumps	Nos	2	121-P-2004A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.41	Incinerator Air Preheater Condensate pump	Nos	2	121-P-2005A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.42	Quench Water Pumps	Nos	2	121-P-2101A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.1.43	Rich MDEA Transfer Pumps	Nos	2	121-P-2201A/B					2.25%		9,30,253.15
3.2.3.3.D.2.i.9	Blowers	Nos	8					3.75%			1,37,98,755.00
3.2.3.3.D.2.i.2.1	Main Blowers - Train-I	Nos	2	121-K-1001A/B					25.00%		34,49,688.75
3.2.3.3.D.2.i.2.2	Incinerator Package - Train-I	Nos	2	121-K-1002A/B					25.00%		34,49,688.75
3.2.3.3.D.2.i.2.3	Main Blowers - Train-II	Nos	2	121-K-2001A/B					25.00%		34,49,688.75
3.2.3.3.D.2.i.2.4	Incinerator Package - Train-II	Nos	2	121-K-2002A/B					25.00%		34,49,688.75
3.2.3.3.D.2.i.10	Dosing system	Nos	9					3.16%			1,16,20,004.21

Engineering & Infra  
Project Name : HRRL Purnepura  
Date : 20/08/2021  
Signature :

Binay KUMAR  
Engineer  
Project Manager  
HPCL Rajasthan Refinery Limited

पंचानन्द शैद्या लिमिटेड  
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पंचानन्द शैद्या लिमिटेड  
पंचानन्द शैद्या लिमिटेड

## **CONSTRUCTION : EQUIPMENT**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
					INR							INR
3.2.3.3.D.2.iii.1.1	Antifoam Injection Package	Nos	1	120-LZ-0001						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.2	Amine Unloading Package	Nos	1	120-LZ-0002						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.3	MDEA Antifoam Package	Nos	1	121-LZ-0201						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.4	TSP Injection Package	Nos	1	121-LZ-0303						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.5	Quench water PH Control Package	Nos	1	121-LZ-1101						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.6	Quench water PH Control Package	Nos	1	121-LZ-2101						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.7	Antifoam Injection Package	Nos	1	118-LZ-0001						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.8	Antifoam Injection Package	Nos	1	119-LZ-0001						11.11%		12,91,111.50
3.2.3.3.D.2.iii.1.9	Corrosion Inheator Injection Package	Nos	1	119-LZ-0002						11.11%		12,91,111.50
3.2.3.3.D.2.i.11	Desuperheaters	Nos	9							3.16%		1,16,20,004.21
3.2.3.3.D.2.iii.2.1	Reboiler Desuperheater	Nos	1	120-LZ-1001						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.2	Reboiler Desuperheater	Nos	1	120-LZ-2001						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.3	MDEA Regeneration Reboiler Desuperheater	Nos	1	121-LZ-0202						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.4	HP Steam Desuperheater	Nos	1	121-LZ-0305						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.5	Tracing/Jacketing Steam Desuperheater	Nos	1	121-LZ-0306						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.6	1 st Stage Desuperheater	Nos	1	118-LZ-0002						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.7	2 nd Stage Desuperheater	Nos	1	118-LZ-0003						11.11%		12,91,111.50
3.2.3.3.D.2.iii.2.8	Reboiler Desuperheater	Nos	2	119-LZ-0003 A/B						22.22%		25,82,223.16
3.2.3.3.D.2.i.12	Sulphur Loading arm	Nos	4							1.40%		51,64,446.32
3.2.3.3.D.2.iii.3.1	Sulphur Loading ARMS	Nos	4	121-LZ-0001 A/B/C/D						100.00%		51,64,446.32
3.2.3.3.D.2.i.13	Ejectors	Nos	6							2.11%		77,46,669.47
3.2.3.3.D.2.iii.4.1	Degassing Steam Ejectors Train-1	Nos	2	121-J-1001A/B						33.33%		25,82,223.16
3.2.3.3.D.2.iii.4.2	Start up Ejectors Train-1	Nos	1	121-J-1101						16.67%		12,91,111.50
3.2.3.3.D.2.iii.4.3	Degassing Steam Ejectors Train-2	Nos	2	121-J-2001A/B						33.33%		25,82,223.16
3.2.3.3.D.2.iii.4.4	Start up Ejectors Train-2	Nos	1	121-J-2101						16.67%		12,91,111.50
3.2.3.3.D.2.i.14	Seal Traps	Nos	10							3.51%		1,29,11,115.75
3.2.3.3.D.2.iii.5.1	First Sulphur Seal Trap	Nos	1	121-LZ-1004						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.2	Second Sulphur Seal Trap	Nos	1	121-LZ-1005						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.3	Third Sulphur Seal Trap	Nos	1	121-LZ-1006						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.4	Fourth Sulphur Seal Trap	Nos	1	121-LZ-1007						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.5	Spare Sulphur Seal Trap	Nos	1	121-LZ-1008						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.6	First Sulphur Seal Trap Train-2	Nos	1	121-LZ-2004						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.7	Second Sulphur Seal Trap Train-2	Nos	1	121-LZ-2005						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.8	Third Sulphur Seal Trap Train-2	Nos	1	121-LZ-2006						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.9	Fourth Sulphur Seal Trap Train-2	Nos	1	121-LZ-2007						10.00%		12,91,111.50
3.2.3.3.D.2.iii.5.10	Spare Sulphur Seal Trap Train-2	Nos	1	121-LZ-2008						10.00%		12,91,111.50
3.2.3.3.D.2.i.15	Inclinerator Package	Nos	6							2.11%		77,46,669.47
3.2.3.3.D.2.iii.6.1	Incinerator Train-1	Nos	1	121-FI-1001						16.67%		12,91,111.50
3.2.3.3.D.2.iii.6.2	Incinerator Train-2	Nos	1	121-FI-2001						16.67%		12,91,111.50
3.2.3.3.D.2.iii.6.3	Stack-1	Nos	1	121-LS-1001						16.67%		12,91,111.50
3.2.3.3.D.2.iii.6.4	Stack-2	Nos	1	121-LS-2001						16.67%		12,91,111.50
3.2.3.3.D.2.iii.6.5	Incinerator Burner-1	Nos	1	121-LZ-1003						16.67%		12,91,111.50
3.2.3.3.D.2.iii.6.6	Incinerator Burner-2	Nos	1	121-LZ-2003						16.67%		12,91,111.50
3.2.3.3.D.2.i.16	Waste Heat Boiler	Nos	2							0.70%		25,82,223.16
3.2.3.3.D.2.iii.7.1	Waste Heat Boiler	Nos	1	121-LW-1001						50.00%		12,91,111.50
3.2.3.3.D.2.iii.7.2	Waste Heat Boiler	Nos	1	121-LW-2001						50.00%		12,91,111.50
3.2.3.3.D.2.i.17	Waste Heat Recovery Package	Nos	4							1.40%		51,64,446.32
3.2.3.3.D.2.iii.8.1	Incinerator Waste Heat Recovery System Train-1	Nos	1	121-LW-1002						25.00%		12,91,111.50
3.2.3.3.D.2.iii.8.2	Incinerator Waste Heat Recovery System Train-2	Nos	1	121-LW-2002						25.00%		12,91,111.50
3.2.3.3.D.2.iii.8.3	Waste Heat Recovery Package Train-1	Nos	1	121-LZ-1009						25.00%		12,91,111.50
3.2.3.3.D.2.iii.8.4	Waste Heat Recovery Package Train-2	Nos	1	121-LZ-2009						25.00%		12,91,111.50

Binay Kumar Binay Kumar  
Tata Consultancy Services India Limited

  
पी. श्रीधर / P. Sridhar  
वरिष्ठ प्रबंधक / Sr. Manager  
इंजीनियरिंग इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एक रुपये  
महाराष्ट्र (मिसाण) इंजीनियर्स इंडिया लिमिटेड  
शास्त्रीय विकास कार्यालय  
F.C. BEHERA  
General Manager (Construction)  
Engineers India Limited

→ Sketches Read

  
द्रोनमराजु रामराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : EQUIPMENT

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN
NAME OF CONTRACTOR	M/s MEIL
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED
NAME OF PMC	ENGINEERS INDIA LIMITED
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	L1	L2	L3	L4	L5	L6	Amount as per BBU
					INR							INR
3.2.3.3.D.2.i.18	BFW Package	Nos	3							1.05%		38,73,334.74
3.2.3.3.D.2.ii.9.1	BFW PH Control Package	Nos	1	121-LZ-0301						33.33%		12,91,111.58
3.2.3.3.D.2.ii.9.2	BFW O2 Scavenger Package	Nos	1	121-LZ-0302						33.33%		12,91,111.58
3.2.3.3.D.2.ii.9.3	BFW Package	Nos	1	121-LZ-0304						33.33%		12,91,111.58
3.2.3.3.D.2.i.19	Reaction Furnace package	Nos	4							1.40%		51,64,446.32
3.2.3.3.D.2.ii.10.1	Reaction Furnace	Nos	1	121-LZ-1001						25.00%		12,91,111.58
3.2.3.3.D.2.ii.10.2	Reaction Furnace Burner	Nos	1	121-LZ-1002						25.00%		12,91,111.58
3.2.3.3.D.2.ii.10.3	Reaction Furnace	Nos	1	121-LZ-2001						25.00%		12,91,111.58
3.2.3.3.D.2.ii.10.4	Reaction Furnace Burner	Nos	1	121-LZ-2002						25.00%		12,91,111.58
3.2.3.3.D.3	On issue of Mechanical Completion certificate	Ls	1		4,08,85,200.00		5.00%					4,08,85,200.00
3.2.3.3.D.4	On successful Commissioning of the Plant/Works	Ls	1		2,45,31,120.00		3.00%					2,45,31,120.00
3.2.3.3.D.5	On issue of Commissioning and Performance Test Certificate	Ls	1		81,77,040.00		1.00%					81,77,040.00
3.2.3.3.D.6	On Completion of all jobs	Ls	1		81,77,040.00		1.00%					81,77,040.00
NOTES :	<ol style="list-style-type: none"> <li>All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>This Billing Break up is for construction portion only.</li> <li>This billing break up is for releasing of payment only.</li> <li>Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure</li> <li>Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices</li> <li>The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>											



Binday Kumar  
Engineer  
HRRL Barmer

पी. श्रीधर/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

*Binday Kumar*

*P. Sridhar*

एफ सी बहेरा  
महाप्रबंधक  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. वाराणसी  
FC BEHERA  
General Manager (Construction)  
Engineers India Limited  
RRP-Barmer

*FC BEHERA  
18/8/2022*

शिशिर कुमार मिश्र  
आवासीय नियार्थ प्रबंधक  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. वाराणसी  
Sisir Kumar Mishra  
Resident Construction Manager  
Engineers India Limited  
RRP-Barmer

D. Nitish Reddy  
18/8/22

द्रोनमराजु रामाराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



## **CONSTRUCTION : TANKS**

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN												
NAME OF CONTRACTOR	M/s MEIL												
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED												
NAME OF PMC	ENGINEERS INDIA LIMITED												
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021												
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	TAG NO	Amount As per SP Form		Weightage					Amount as per BBU	
					INR		L1	L2	L3	L4	L5	L6	INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)				4,54,28,00,000.00								
3.2.3.3.E	Tanks				27,25,68,000.00	6.00%						27,25,68,000.00	
3.2.3.3.E.1	Completion of Pre-fabrication and Erection pro-rata basis				10,90,27,200.00		40.00%					10,90,27,200.00	
3.2.3.3.E.1.1	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001A								3,16,17,888.00	
3.2.3.3.E.1.2	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001B								3,16,17,888.00	
3.2.3.3.E.1.3	Stripper Feed Tanks	Nos	1	119-T-0001								3,05,00,666.20	
3.2.3.3.E.1.4	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001A								32,90,382.02	
3.2.3.3.E.1.5	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001B								32,90,382.02	
3.2.3.3.E.1.6	Sulphur Storage Tank	Nos	1	121-T-0001								20,01,649.06	
3.2.3.3.E.1.7	Mdea Storage Tank	Nos	1	121-T-0201								12,53,478.87	
3.2.3.3.E.1.8	Sulphur Pit (Train-I)	Nos	1	121-T-1001								27,25,680.00	
3.2.3.3.E.1.9	Sulphur Pit (Train-II)	Nos	1	121-T-2001								27,25,680.00	
3.2.3.3.E.2	Completion of welding, NDT, grouting etc. on prorata basis				10,90,27,200.00	40.00%						10,90,27,200.00	
3.2.3.3.E.2.i	Completion of welding and NDT											8,72,21,760.00	
3.2.3.3.E.2.i.1	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001A								2,52,94,310.40	
3.2.3.3.E.2.i.2	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001B								2,52,94,310.40	
3.2.3.3.E.2.i.3	Stripper Feed Tanks	Nos	1	119-T-0001								2,44,00,532.96	
3.2.3.3.E.2.i.4	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001A								26,32,305.62	
3.2.3.3.E.2.i.5	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001B								26,32,305.62	
3.2.3.3.E.2.i.6	Sulphur Storage Tank	Nos	1	121-T-0001								16,01,319.25	
3.2.3.3.E.2.i.7	Mdea Storage Tank	Nos	1	121-T-0201								10,02,783.09	
3.2.3.3.E.2.i.8	Sulphur Pit (Train-I)	Nos	1	121-T-1001								21,80,544.00	
3.2.3.3.E.2.i.9	Sulphur Pit (Train-II)	Nos	1	121-T-2001								21,80,544.00	
3.2.3.3.E.2.ii	Completion of Grouting											2,18,05,440.00	
3.2.3.3.E.2.ii.1	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001A								63,23,577.60	
3.2.3.3.E.2.ii.2	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001B								63,23,577.60	
3.2.3.3.E.2.ii.3	Stripper Feed Tanks	Nos	1	119-T-0001								61,00,133.24	
3.2.3.3.E.2.ii.4	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001A								6,58,076.40	
3.2.3.3.E.2.ii.5	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001B								6,58,076.40	
3.2.3.3.E.2.ii.6	Sulphur Storage Tank	Nos	1	121-T-0001								4,00,329.81	
3.2.3.3.E.2.ii.7	Mdea Storage Tank	Nos	1	121-T-0201								2,50,695.77	
3.2.3.3.E.2.ii.8	Sulphur Pit (Train-I)	Nos	1	121-T-1001								5,45,136.00	
3.2.3.3.E.2.ii.9	Sulphur Pit (Train-II)	Nos	1	121-T-2001								5,45,136.00	
3.2.3.3.E.3	Completion of Hydrotesting				2,72,56,800.00	10.00%						2,72,56,800.00	
3.2.3.3.E.3.1	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001A								79,04,472.00	
3.2.3.3.E.3.2	Stripper Feed Tanks (Fixed Dome Roof)	Nos	1	118-T-0001B								79,04,472.00	
3.2.3.3.E.3.3	Stripper Feed Tanks	Nos	1	119-T-0001								76,25,166.55	
3.2.3.3.E.3.4	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001A								8,22,595.51	
3.2.3.3.E.3.5	Amine Storage Tanks (Conical Fixed Roof)	Nos	1	120-T-0001B								8,22,595.51	
3.2.3.3.E.3.6	Sulphur Storage Tank	Nos	1	121-T-0001								5,00,412.27	
3.2.3.3.E.3.7	Mdea Storage Tank	Nos	1	121-T-0201								3,13,369.72	
3.2.3.3.E.3.8	Sulphur Pit (Train-I)	Nos	1	121-T-1001								6,81,420.00	
3.2.3.3.E.3.9	Sulphur Pit (Train-II)	Nos	1	121-T-2001								6,81,420.00	
3.2.3.3.E.4	On issue of Mechanical Completion certificate	Ls	1		1,36,28,400.00	5.00%						1,36,28,400.00	
3.2.3.3.E.5	On successful Commissioning of the Plant/Works	Ls	1		81,77,040.00	3.00%						81,77,040.00	

3.2.3.3.E.5

On successful Commissioning of the Plant/Work

पी श्रीहर (P. Srihar  
वरिष्ठ प्रबंधक / Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

~~Mr. Biju D. Barmer~~ C BEHERA  
General Manager (Construction)  
Engineers India Limited  
RRP-Barmer

D. M. Litchfield

81,77,040.00



CONSTRUCTION : TANKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	TAG NO	Amount As per SP Form	Weightage				Amount as per BBU		
					INR	L1	L2	L3	L4	L5	L6	INR
3.2.3.3.E.6	On Issue of Commissioning and Performance Test Certificate	ls	1		27,25,680.00		1.00%					27,25,680.00
3.2.3.3.E.7	On Completion of all Jobs	ls	1		27,25,680.00		1.00%					27,25,680.00
NOTES :	<ol style="list-style-type: none"> <li>All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>This Billing Break up is for construction portion only.</li> <li>This billing break up is for releasing of payment only.</li> <li>Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure</li> <li>Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices</li> <li>The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>											



राकेश कुमार दीनेश -  
Project Manager  
M/s MEIL  
पैनल डिपार्टमेंट  
अधिकारी इंजीनियरिंग  
हावड़ा बार्मेर

पी. श्रीद्वारका / P. Sridhar  
वरिष्ठ प्रबंधक / Sr. Manager  
इंजीनियरिंग इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एफ सी  
महाप्रबंधक  
इंजीनियरिंग इंडिया लिमिटेड  
आर.आर.पी. बार्मेर

Office No. 18/2022  
General Manager (Construction)  
Engineering Industries Ltd.  
RRP-Barmer

शिशिर कुमार मिश्रा Sisir Kumar Mishra  
आवासीय नियार्थी प्रबंधक Resident Construction Manager  
इंजीनियरिंग इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बार्मेर RRP-Barmer

D. Natesh Reddy

द्रोनमराजु रामाराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : ELECTRICAL & PLANT COMMUNICATION WORKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN										
NAME OF CONTRACTOR	M/s MEIL										
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED										
NAME OF PMC	ENGINEERS INDIA LIMITED										
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021										
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	Weightage				Amount as per BBU		
				INR	L1	L2	L3	L4	L5	L6	INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)			4,54,28,00,000.00	100%	100%					4,54,28,00,000.00
3.2.3.4	Electrical & Plant Communication			22,71,40,000.00		5%					22,71,40,000.00
3.2.3.4.1	Erection/Installation etc. on pro-rata basis			10,22,13,000.00			45%				10,22,13,000.00
3.2.3.4.1.1	Isolation Breaker Panel, 24-HT-212	Nos.	1					1.00%			10,22,13,00.00
3.2.3.4.1.2	Power & Distribution Transformers	Nos.					6.50%				66,43,845.00
3.2.3.4.1.2.1	Power Transformers including RTCC	Nos.	2					30.77%			20,44,260.00
3.2.3.4.1.2.2	Distribution Transformers	Nos.	8						69.23%		45,99,585.00
3.2.3.4.1.3	Lighting Transformers	Nos.	4					1.75%			17,88,727.50
3.2.3.4.1.4	HT Switchgear Panel, 24-HT-211	Nos.	1				7.40%				75,63,762.00
3.2.3.4.1.5	GIS Isolation Breaker Panel, 24-HT-201,202 Including CRP	Nos.	2					3.00%			30,66,390.00
3.2.3.4.1.6	415 LT Switchgear						5.45%				55,70,608.50
3.2.3.4.1.6.1	LT SWITCHBOARD 24-MCC-311,312,313 / 24-ASB-411	Nos.	4					50.00%			27,85,304.25
3.2.3.4.1.6.2	LT SWITCHBOARD 24-PMCC-301,302,303	Nos.	3					37.50%			20,88,978.19
3.2.3.4.1.6.3	LT SWITCHBOARD 24-EMPCC-304	Nos.	1					12.50%			6,96,326.06
3.2.3.4.1.7	6.6KV, APFC Capacitor Bank & Panel	Nos.	2					4.50%			45,99,585.00
3.2.3.4.1.8	DC System	SET	9					3.50%			35,77,455.00
3.2.3.4.1.9	6.6kV & 415V Bus Duct	Nos.	40					4.50%			45,99,585.00
3.2.3.4.1.10	LDB/ELDB including LP's and PP's	Nos.	20					4.25%			43,44,052.50
3.2.3.4.1.11	Electrical control systems-Substation 24 Including ECS RTU	Nos.	1					4.00%			40,88,520.00
3.2.3.4.1.12	Heat Tracing System	Lot	1					3.00%			30,66,390.00
3.2.3.4.1.13	NGR for Power & Distribution Transformers	Nos.	2					1.00%			10,22,130.00
3.2.3.4.1.14	AC UPS System Including UPS, ACDB and Battery Bank	SET	2					1.50%			24,53,112.00
3.2.3.4.1.15	VFD	Nos.	6					2.40%			15,83,195.00
3.2.3.4.1.16	Recepticals	Nos.	35					1.50%			15,83,195.00
3.2.3.4.1.17	EHV Cable (66 KV)	KM	4					3.50%			35,77,455.00
3.2.3.4.1.18	HV Cable (6.6 KV)	KM	57					4.55%			46,50,691.50
3.2.3.4.1.19	LT Cables							8.00%			81,77,040.00
3.2.3.4.1.19.1	Installation of LT Power and Control Cables	KM	400					70.00%			57,23,928.00
3.2.3.4.1.19.2	Electrical Cable laying/pulling - Plant Area	KM	100					30.00%			24,53,112.00
3.2.3.4.1.20	Glanding & Termination							4.50%			45,99,585.00
3.2.3.4.1.20.1	Cable Glanding & Termination - Inside Substation	Nos.	1000					43.10%			19,82,579.74
3.2.3.4.1.20.2	Cable Glanding & Termination - Inside SRR-05	Nos.	60					5.17%			2,37,909.57
3.2.3.4.1.20.3	Electrical cable Glanding & End termination - Plant Area	Nos.	200					17.24%			7,93,031.90
3.2.3.4.1.20.4	Electrical cable Glanding & End termination - Plant Area	Nos.	400					34.48%			15,86,063.79
3.2.3.4.1.21	Lighting Fixtures including glanding and Termination	Nos.	1600					2.00%			20,44,260.00
3.2.3.4.1.22	Junction Boxes	Nos.	150					1.55%			15,84,301.50
3.2.3.4.1.23	Cables Trays							3.00%			30,66,390.00
3.2.3.4.1.23.1	Electrical Cable tray and support Installation-Plant Area	KM	16					51.50%			15,79,256.65
3.2.3.4.1.23.2	Cable Tray Installation - Inside Substation 24	Mtrs	2200					47.21%			14,47,651.93
3.2.3.4.1.23.3	Cable Tray Installation - Inside SRR-05	Mtrs	1000					1.29%			39,481.42
3.2.3.4.1.24	Earthing works - Substation 24 Including lightening protection	Nos.	2000					1.50%			15,33,195.00
3.2.3.4.1.25	Earthing works SRR 05 Including lightening protection	Nos.	1500					1.50%			15,33,195.00
3.2.3.4.1.26	Electrical Earthing works - Plant Area Including lightening protection	Nos.	3000					1.50%			15,33,195.00
3.2.3.4.1.27	Installation of Earthing Bulks	Nos.	100					2.00%			20,44,260.00
3.2.3.4.1.28	Lighting Poles	Nos.	300					1.70%			17,37,621.00
3.2.3.4.1.29	Local Control Station (LCS)	Nos.	89					1.00%			10,22,130.00
3.2.3.4.1.30	Termination Kits	Nos.	65					1.45%			14,82,088.50
3.2.3.4.1.31	E&I safety EQPTs	LS	1					1.50%			15,33,195.00
3.2.3.4.1.32	Motor Operated Valves	Nos.	8					1.50%			15,33,195.00
3.2.3.4.1.33	NIFPS System	Nos.	1					1.00%			10,22,130.00
3.2.3.4.1.34	Fire Alarm System	Nos.	1					1.00%			10,22,130.00
3.2.3.4.1.35	Plant Communication System	Nos.	1					1.00%			10,22,130.00



Madhu Madhu Singh  
Sr. Manager  
EIL

(Mr. Bareesh)  
(All H EIL)

इकाई के लिए विद्युत संचार का नियन्त्रण  
पर्यावरण विभाग का विद्युत संचार नियन्त्रण  
पर्यावरण विभाग का विद्युत संचार नियन्त्रण

D. Nitish Reddy

दोनों मराठा राजसवाक की आरएस  
DRONAMINNU RAMARAO VRS  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी टिमिडेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : ELECTRICAL & PLANT COMMUNICATION WORKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN					
NAME OF CONTRACTOR	M/s MEIL					
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED					
NAME OF PMC	ENGINEERS INDIA LIMITED					
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021					
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	Weightage	Amount as per BBU
3.2.3.4.1.36	CP System	Nos	1		1.00%	10,22,130.00
3.2.3.4.2	Testing loops and system on pro-rata basis			10,22,13,000.00	45%	
3.2.3.4.2.1	Isolation Breaker Panel, 24-HT-212	Nos.	1		1.00%	10,22,13,000.00
3.2.3.4.2.2	Power & Distribution Transformers	Nos.			6.50%	66,43,845.00
3.2.3.4.2.2.1	Power Transformers including RTCC	Nos.	2		30.77%	20,44,260.00
3.2.3.4.2.2.2	Distribution Transformers	Nos.	8		69.23%	45,99,585.00
3.2.3.4.2.3	Lighting Transformers	Nos.	4		1.75%	17,88,727.50
3.2.3.4.2.4	HT Switchgear Panel, 24-HT-211	Nos.	1		7.40%	75,63,762.00
3.2.3.4.2.5	GIS Isolation Breaker Panel, 24-HT-201,202 including CRP	Nos.	2		3.00%	30,66,390.00
3.2.3.4.2.6	415 LT Switchgear				5.45%	55,70,608.50
3.2.3.4.2.6.1	LT SWITCHBOARD 24-MCC-311,312,313 / 24-ASB-411	Nos.	4		50.00%	27,85,304.25
3.2.3.4.2.6.2	LT SWITCHBOARD 24-PMCC-301,302,303	Nos.	3		37.50%	20,88,978.19
3.2.3.4.2.6.3	LT SWITCHBOARD 24-EMPCC-304	Nos.	1		12.50%	6,96,326.06
3.2.3.4.2.7	6.6KV, APFC Capacitor Bank & Panel	Nos.	2		4.50%	45,99,585.00
3.2.3.4.2.8	DC System	SET	9		3.50%	35,77,455.00
3.2.3.4.2.9	6.6KV & 415V Bus Duct	Nos.	40		4.50%	45,99,585.00
3.2.3.4.2.10	LDB/ELDB including LP's and PP's	Nos.	20		4.25%	43,44,052.50
3.2.3.4.2.11	Electrical control systems-Substation 24 including ECS RTU	Nos.	1		4.00%	40,88,520.00
3.2.3.4.2.12	Heat Tracing System	Lot	1		3.00%	30,66,390.00
3.2.3.4.2.13	NGR for Power & Distribution Transformers	Nos.	2		1.00%	10,22,130.00
3.2.3.4.2.14	AC UPS System Including UPS, ACDB and Battery Bank	SET	2		1.50%	15,33,195.00
3.2.3.4.2.15	VFD	Nos.	6		2.40%	24,53,112.00
3.2.3.4.2.16	Recepticals	Nos.	35		1.50%	15,33,195.00
3.2.3.4.2.17	EHV Cable (66 KV)	KM	4		3.50%	35,77,455.00
3.2.3.4.2.18	HV Cable (6.6 KV)	KM	57		4.55%	46,50,691.50
3.2.3.4.2.19	LT Cables				8.00%	81,77,040.00
3.2.3.4.2.19.1	Installation of LT Power and Control Cables	KM	400		70.00%	57,23,928.00
3.2.3.4.2.19.2	Electrical Cable laying/pulling - Plant Area	KM	100		30.00%	24,53,112.00
3.2.3.4.2.20	Glanding & Termination				4.50%	45,99,585.00
3.2.3.4.2.20.1	Cable Glanding & Termination - Inside Substation	Nos.	1000		43.10%	19,82,579.74
3.2.3.4.2.20.2	Cable Glanding & Termination - Inside SRR -05	Nos.	60		5.17%	2,37,909.57
3.2.3.4.2.20.3	Electrical cable Glanding & End termination - Plant Area	Nos.	200		17.24%	7,93,031.90
3.2.3.4.2.20.4	Electrical cable Glanding & End termination - Plant Area	Nos.	400		34.48%	15,86,063.79
3.2.3.4.2.21	Lighting Fixtures including glanding and Termination.	Nos.	1600		2.00%	20,44,260.00
3.2.3.4.2.22	Junction Boxes	Nos.	150		1.55%	15,84,301.50
3.2.3.4.2.23	Cables Trays				3.00%	30,66,390.00
3.2.3.4.2.23.1	Electrical Cable tray and support Installation-Plant Area	KM	16		51.50%	15,79,256.65
3.2.3.4.2.23.2	Cable Tray Installation - Inside Substation 24	Mtrs	2200		47.21%	14,47,651.93
3.2.3.4.2.23.3	Cable Tray Installation - Inside SRR -05	Mtrs	1000		1.29%	39,481.42
3.2.3.4.2.24	Earthing works - Substation 24 including lightening protection	Nos.	2000		1.50%	15,33,195.00
3.2.3.4.2.25	Earthing works SRR 05 including lightening protection	Nos.	1500		1.50%	15,33,195.00
3.2.3.4.2.26	Electrical Earthing works - Plant Area including lightening protection	Nos.	3000		1.50%	15,33,195.00
3.2.3.4.2.27	Installation of Earthing Bulks	Nos.	100		2.00%	20,44,260.00
3.2.3.4.2.28	Lighting Poles	Nos.	300		1.70%	17,37,621.00
3.2.3.4.2.29	Local Control Station (LCS)	Nos.	89		1.00%	10,22,130.00
3.2.3.4.2.30	Termination Kits	Nos.	65		1.45%	14,82,088.50
3.2.3.4.2.31	E&I safety EQPTs	LS	1		1.50%	15,33,195.00
3.2.3.4.2.32	Motor Operated Valves	Nos.	8		1.50%	15,33,195.00
3.2.3.4.2.33	NIFPS System	Nos.	1		1.00%	10,22,130.00
3.2.3.4.2.34	Fire Alarm System	Nos.	1		1.00%	10,22,130.00
3.2.3.4.2.35	Plant Communication System	Nos.	1		1.00%	10,22,130.00
3.2.3.4.2.36	CP System	Nos.	1		1.00%	10,22,130.00
3.2.3.4.3	Issue of Mechanical Completion Certificate	LS	1	1,13,57,000.00	5%	1,13,57,000.00



Chiragh  
Madhu Madhu Singh  
Sr. Manager  
EI L

(CNS Barwala)  
AGM  
EI L

एक नयी कैम्प  
महाराष्ट्र इंडिया लिमिटेड  
पर्यावरण और संग्रहीत  
पर्यावरण और संग्रहीत  
पर्यावरण और संग्रहीत

FCBHD  
General Manager (Construction)  
RRP-Barmer

D. Nitish Reddy

DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक - परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : ELECTRICAL & PLANT COMMUNICATION WORKS

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	Weightage						Amount as per BBU	
				INR		L1	L2	L3	L4	L5	L6	INR
3.2.3.4.4	Issue of Commissioning Certificate	LS	1	68,14,200.00				3%				68,14,200.00
3.2.3.4.5	Issue of Performance Test Certificate	LS	1	22,71,400.00				1%				22,71,400.00
3.2.3.4.5	Completion of all jobs	LS	1	22,71,400.00				1%				22,71,400.00

NOTES:

1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.
2. This Billing Break up is for construction portion only.
3. This billing break up is for releasing of payment only.
4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure
5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices
6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.
7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.



Chirag  
Madhu Madhan Singh  
Sr. Manager  
EIC

पांच सौ लाख  
महाराजाराव वी.आर.एस  
इंजीनियरिंग एंड प्रोजेक्ट्स  
बार.आर.पी.वरुनर

राशिर कुमार मिश्रा Sisir Kumar Mishra  
अध्यक्ष नियन्त्रण प्रभाव  
इंजीनियरिंग एंड प्रोजेक्ट्स Engineers India Limited  
बार.आर.पी.वरुनर

Yash  
21/8/2021  
General Manager (Construction)  
RRP-Barmer

21/8/2021  
Resident Construction Manager  
RRP-Barmer

D. Nitish Reddy

नामराजु रामाराव वी.आर.एस  
V.NAMRAJU RAMARAO VRS  
प्रोजेक्ट मैनेजर - प्रोजेक्ट्स  
एप्पलाइन राजस्थान इंजिनियरिंग लिमिटेड  
HPCL Rajasthan Refinery Limited

Rikshanwaras.

## CONSTRUCTION : INSTRUMENTATION

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN													
NAME OF CONTRACTOR	M/s MEIL													
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED													
NAME OF PMC	ENGINEERS INDIA LIMITED													
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021													
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	INR	L1	L2	L3	L4	L5	L6	L7	Amount as per BBU	PRICE/ UOM
													INR	
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)				4,54,28,00,000.00	100%							4,54,28,00,000.00	
3.2.3.5	Instrumentation				27,25,68,000.00		6%						27,25,68,000.00	
3.2.3.5.1	Erection/Installation etc. on pro-rata basis				12,26,55,600.00			45%					12,26,55,600.00	
3.2.3.5.1.1	Calibration/Installation of Field Instruments								21.13%				2,59,17,128.28	
3.2.3.5.1.1.1	Vortex Flowmeters	Nos	44							2.50%			6,47,928.21	14,726
3.2.3.5.1.1.2	Coriolis Flowmeters	Nos	6							0.48%			1,24,402.22	20,734
3.2.3.5.1.1.3	Electromagnetic Flowmeters	Nos	1							0.08%			20,733.70	20,734
3.2.3.5.1.1.4	Ultrasonic Flowmeters	Nos	9							0.64%			1,65,869.62	18,430
3.2.3.5.1.1.5	Pitot/ Annubar Instruments	Nos	6							0.38%			98,485.09	16,414
3.2.3.5.1.1.6	Thermal Massflow Instruments	Nos	2							0.18%			46,650.83	23,325
3.2.3.5.1.1.7	Level Gauges (Glass And Mag)	Nos	94							2.90%			7,51,596.72	7,996
3.2.3.5.1.1.8	Pressure Gauges	Nos	400							10.00%			25,91,712.83	6,479
3.2.3.5.1.1.9	Temperature Gauges	Nos	159							3.97%			10,28,909.99	6,471
3.2.3.5.1.1.10	Radiation Pyrometers	Nos	6							0.22%			57,017.68	9,503
3.2.3.5.1.1.11	Multiple Temperature Elements	Nos	50							1.90%			4,92,425.44	9,849
3.2.3.5.1.1.12	Temperature Elements And Transmitters	Nos	614							28.00%			72,56,795.92	11,819
3.2.3.5.1.1.13	Pressure Transmitters	Nos	350							12.00%			31,10,055.39	8,886
3.2.3.5.1.1.14	Differential Pressure Transmitters (Flow/ level/ DP)	Nos	258							14.00%			36,28,397.96	14,064
3.2.3.5.1.1.15	Vibration Fork Level Switches	Nos	4							0.15%			38,875.69	9,719
3.2.3.5.1.1.16	Servo Level Transmitters	Nos	4							0.15%			38,875.69	9,719
3.2.3.5.1.1.17	Radar Level Transmitters	Nos	145							5.70%			14,77,276.31	10,188
3.2.3.5.1.1.18	Orifice and RO	Nos	169							4.45%			11,53,312.21	6,824
3.2.3.5.1.1.19	Venturi	Nos	29							7.20%			18,66,033.24	6,436
3.2.3.5.1.1.20	Breather Valves	Nos	9							1.30%			3,36,922.67	37,436
3.2.3.5.1.1.21	Rotameter	Nos	108							3.80%			9,84,850.87	9,119
3.2.3.5.1.2	Calibration/Installation of Valves	Nos	665						8.19%				1,00,45,493.64	
3.2.3.5.1.2.1	Control Valves	Nos	245							36.84%			37,00,971.34	15,106
3.2.3.5.1.2.2	On-Off Valves	Nos	183							27.52%			27,64,399.00	15,106
3.2.3.5.1.2.3	Safety Valves	Nos	237							35.64%			35,80,123.30	15,106
3.2.3.5.1.3	Instrument Impulse Hook-up								18.49%				2,26,79,020.44	
3.2.3.5.1.3.1	Impulse Piping & Tubing	Nos	1251							52.00%			1,17,93,090.63	9,427
3.2.3.5.1.3.2	Pneumatic Piping	Mtr	2500							30.00%			68,03,706.13	2,721
3.2.3.5.1.3.3	Control valve tubing	Nos	436							10.00%			22,67,902.04	5,202
3.2.3.5.1.3.4	Steam Tracing	Lot	1							8.00%			18,14,321.64	18,14,322
3.2.3.5.1.4	Analyzers and Gas Chromatograph								3.62%				44,40,132.72	
3.2.3.5.1.4.1	Analyzer Shelter And Chromatographs	Nos	12							62.00%			27,52,882.29	2,29,407
3.2.3.5.1.4.2	Tail Gas Analyzers	Nos	1							5.00%			2,22,006.64	2,22,007
3.2.3.5.1.4.3	Conductivity And pH Analyzers	Nos	5							18.00%			7,99,223.89	1,59,845
3.2.3.5.1.4.4	Cems Analyzers	Sets	2							9.00%			3,99,611.94	1,99,806
3.2.3.5.1.4.5	O2 Analyzers	Nos	2							6.00%			2,66,407.96	1,33,204
3.2.3.5.1.5	Detectors Systems	Nos	79						3.00%				36,79,668.00	46,578
3.2.3.5.1.6	Wireless System	Nos	200						3.07%				37,65,526.92	18,828
3.2.3.5.1.7	Instrument Cables								17.42%				2,13,66,605.52	
3.2.3.5.1.7.1	Instrumentation Signal/Control /Power Cables	KM	20							80.00%			1,70,93,284.42	8,54,664
3.2.3.5.1.7.2	Fiber Optic Cables	KM	5							20.00%			42,73,321.10	8,54,664
3.2.3.5.1.8	Cable duct and Trays								8.00%				98,12,448.00	
3.2.3.5.1.8.1	Installation of Cable Duct	Mtr	200							50.00%			49,06,224.00	24,531
3.2.3.5.1.8.2	Installation of Cable Tray	KM	1.8							50.00%			49,06,224.00	27,25,680



21/07/2022  
 Pravdarshini Dinesh Singh N.  
 Asst General Manager  
 Engineers India Limited  
 RRP-Barmer

एक सीधे बोर्ड  
 महाप्रबंधक  
 हैंजीनियर्स इंडिया लिमिटेड  
 आरआरपी.बार्मेर  
 आरआरपी.बार्मेर

D. Natesh Reddy

DRONAMRAJU RAMARAO VRS  
 महाप्रबंधक - परियोजनाएँ  
 Deputy General Manager - Projects  
 एचयोसीएल राजस्थान इंजिनियरिंग लिमिटेड  
 HCL Rajasthan Refinery Limited

38/40



CONSTRUCTION : INSTRUMENTATION

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	Weightage						Amount as per BBU	PRICE/ UOM
				INR	L1	L2	L3	L4	L5	L6	L7	INR
3.2.3.5.1.9	Junction Boxes	Nos	300					3.57%				43,78,804.92
3.2.3.5.1.14	CCTV	Nos	12					0.56%				6,86,871.36
3.2.3.5.1.15	Control System (DCS, ESD, FGS) SRR-05	Lot	1					4.08%				50,04,348.48
3.2.3.5.1.16	Structural Works	MT	20					5.00%				61,32,780.00
3.2.3.5.1.17	Miscellaneous							3.87%				47,46,771.72
3.2.3.5.1.17.1	Installation of Multicable Transits	Nos	7					7.00%				3,32,274.02
3.2.3.5.1.17.2	Fabrication & Installation of Instrumentation Stanchion Support	Nos	2000					68.00%				32,27,804.77
3.2.3.5.1.17.3	Installation of Instrument Canopy	Nos	1200					25.00%				11,86,692.93
3.2.3.5.2	Testing loops and system on pro-rata basis			12,26,55,600.00			45%					12,26,55,600.00
3.2.3.5.2.1	Field Instruments	Nos	1493					14.00%				1,71,71,784.00
3.2.3.5.2.1.1	Vortex Flowmeters	Nos	44					2.95%				5,06,067.31
3.2.3.5.2.1.2	Coriolis Flowmeters	Nos	6					0.40%				69,009.18
3.2.3.5.2.1.3	Electromagnetic Flowmeters	Nos	1					0.07%				11,501.53
3.2.3.5.2.1.4	Ultrasonic Flowmeters	Nos	9					0.60%				1,03,513.77
3.2.3.5.2.1.5	Thermal Massflow Instruments	Nos	2					0.13%				23,003.06
3.2.3.5.2.1.6	Radiation Pyrometers	Nos	6					0.40%				69,009.18
3.2.3.5.2.1.7	Multiple Temperature Elements	Nos	50					3.35%				5,75,076.49
3.2.3.5.2.1.8	Temperature Elements And Transmitters	Nos	614					41.13%				70,61,939.30
3.2.3.5.2.1.9	Pressure Transmitters	Nos	350					23.44%				40,25,535.43
3.2.3.5.2.1.10	Differential Pressure Transmitters	Nos	258					17.28%				29,67,394.69
3.2.3.5.2.1.11	Vibration Fork Level Switches	Nos	4					0.27%				46,006.12
3.2.3.5.2.1.12	Servo Level Transmitters	Nos	4					0.27%				46,006.12
3.2.3.5.2.1.13	Radar Level Transmitters	Nos	145					9.71%				16,67,721.82
3.2.3.5.2.2	Valves	Nos	428					13.50%				1,65,58,506.00
3.2.3.5.2.2.1	Control Valves	Nos	245					60.00%				99,35,103.60
3.2.3.5.2.2.2	On-Off Valves	Nos	183					40.00%				66,23,402.40
3.2.3.5.2.3	Instrument Impulse Hook-up							15.50%				1,90,11,618.00
3.2.3.5.2.3.1	Impulse Piping & Tubing	Nos	1251					50.00%				95,05,809.00
3.2.3.5.2.3.2	Pneumatic Piping	Mtr	2500					20.00%				38,02,323.60
3.2.3.5.2.3.3	Control valve tubing	Nos	436					20.00%				38,02,323.60
3.2.3.5.2.3.4	Steam Tracing	LOT	1					10.00%				19,01,161.80
3.2.3.5.2.4	Analysers and Gas Chromatograph		22					7.00%				85,85,892.00
3.2.3.5.2.4.1	Analyzer Shelter And Chromatographs	Nos	12					54.55%				46,83,213.82
3.2.3.5.2.4.2	Tail Gas Analyzers	Nos	1					4.55%				3,90,267.82
3.2.3.5.2.4.3	Conductivity And Ph Analyzers	Nos	5					22.73%				19,51,339.09
3.2.3.5.2.4.4	Cems Analyzers	Sets	2					9.09%				7,80,535.64
3.2.3.5.2.4.5	O2 Analyzers	Nos	2					9.09%				7,80,535.64
3.2.3.5.2.5	Detectors Systems	Nos	79					5.00%				61,32,780.00
3.2.3.5.2.6	Wireless System	Nos	200					3.50%				42,92,946.00
3.2.3.5.2.7	Instrument Cables							30.50%				3,74,09,958.00
3.2.3.5.2.7.1	Instrumentation Signal/Control /Power Cables	KM	20					80.00%				2,99,27,966.40
3.2.3.5.2.7.2	Fiber Optic Cables	KM	5					20.00%				74,81,991.60
3.2.3.5.2.8	Junction Boxes	Nos	300					4.00%				49,06,224.00
3.2.3.5.2.9	CCTV	Nos	12					3.00%				36,79,668.00
3.2.3.5.2.10	Control System (DCS, ESD, FGS) SRR-05	Lot	1					4.00%				49,06,224.00
3.2.3.5.3	Issue of Mechanical Completion Certificate	LS	1	1,36,28,400.00			5%					1,36,28,400.00



प्रियदर्शी दिनेश सिंह एन  
सहायक महाप्रबंधक  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बार्मेर  
Priyadarshi Dinesh Singh N  
Asst General Manager  
Engineers India Limited  
R.R.P.-Barmer

एक स्तरीय वेत्रोर  
D. Nitish Reddy  
महाप्रबंधक (नियामन)  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बार्मेर  
D. Nitish Reddy  
Project Manager (Construction)  
Engineers India Limited  
R.R.P.-Barmer  
Page 2 of 3

DRONAMRAJU RAMARAO VRS  
D. Nitish Reddy  
महाप्रबंधक - परियोजना  
आर.आर.पी. बार्मेर Project  
D. Nitish Reddy  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बार्मेर  
R.R.P.-Barmer

Bulksummedas

39/60

**CONSTRUCTION : INSTRUMENTATION**
**PROJECT** EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN

**NAME OF CONTRACTOR** M/s MEIL

**NAME OF CLIENT** HPCL RAJASTHAN REFINERY LIMITED

**NAME OF PMC** ENGINEERS INDIA LIMITED

**LOA No.** HRRL/LOA/2021/21 Dt.23.08.2021

SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	QTY	Amount As per SP Form	Weightage							Amount as per BBU	PRICE/ UOM
				INR	L1	L2	L3	L4	L5	L6	L7	INR	
3.2.3.5.4	Issue of Commissioning Certificate	LS	1	81,77,040.00			3%						81,77,040.00
3.2.3.5.5	Issue of Performance Test Certificate	LS	1	27,25,680.00			1%						27,25,680.00
3.2.3.5.5	Completion of all jobs	LS	1	27,25,680.00			1%						27,25,680.00

**NOTES:**

1. All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.
2. This Billing Break up is for construction portion only.
3. This billing break up is for releasing of payment only.
4. Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure.
5. Taxes & Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices.
6. The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.
7. In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.
8. The amount indicated against Cost Reduction is kept as provision only till amended PO is released. On release of amended PO / Change Order for Cost Reduction, BBU will therefore be again revised [per SCC clause no. 23.8.6 and 14.2.3.2] and the other provisions of the Contract (without waiting for 90% progress achievement for BBU revisions.). Upon finalization of Cost Reduction Items, difference, if any, in amount allocated & finalized amount of Cost Reduction Item shall be released on prorata basis as per Construction Progress.


*Dpmited  
29/07/2022*

प्रियदर्शी दिनेश सिंह एवं Priyadarshi Dinesh Singh N  
 सहायक महाप्रबंधक Asst. General Manager  
 इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
 आर.आर.पी. बार्मेर RRP-Barmer

एफ सी देवेरा १८/८/२०२२  
 महाप्रबंधक (नियाण) General Manager (Construction)  
 इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
 आर.आर.पी बार्मेर RRP-Barmer

१८/८/२०२२  
 रिशिर युमार मिश्र Sisir Kumar Mishra  
 अगातीय नियाण प्रबंधक Resident Construction Manager  
 इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
 आर.आर.पी. बार्मेर RRP-Barmer

D. Nitish Reddy  
18/8/2022  
 डॉ. नितीश रेड्डी  
 DRONAMRAJU RAMARAO VRS  
 डॉ. महाप्रबंधक – परियोजनाएँ  
 Deputy General Manager - Projects  
 एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
 HPCL Rajasthan Refinery Limited



CONSTRUCTION : MECHANICAL COMPLETION AND PRE-COMMISSIONING

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	Weightage					Amount as per BBU	
					INR	L1	L2	L3	L4	L5	L6	INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)				4,54,28,00,000.00							
3.2.3.6	Mechanical Completion & Pre-Commissioning				4,54,28,000.00	1.00%	100.00%				4,54,28,000.00	
3.2.3.6.1	100% (hundred percent) on completion of Pre-commissioning of the Plant.	LS	1		4,54,28,000.00			100.00%			4,54,28,000.00	
NOTES :	<ol style="list-style-type: none"> <li>All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>This Billing Break up is for construction portion only.</li> <li>This billing break up is for releasing of payment only.</li> <li>Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure.</li> <li>Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices.</li> <li>The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>											



P. श्रीधर/Prashikhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एन.जे. बरुआ  
सहायक महाप्रबंधक  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
RRP-Barmer  
आर.आर.पी. बारमेर

एफ.सी. देहरा  
महाप्रबंधक (नियमी)  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
RRP-Barmer  
आर.आर.पी. बारमेर

सिरिकुमार मिश्रा Sisir Kumar Mishra  
अधिकारीय नियामन प्रबंधक Resident Construction Manager  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बारमेर

D. Nitish Reddy

Jain

द्रोनमराजु रामाराव वी.आर.एस  
DRONAMRAJU RAMARAO VRS  
उप महाप्रबंधक – परियोजनाएँ  
Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
HPCL Rajasthan Refinery Limited



CONSTRUCTION : COMMISSIONING AND START-UP

PROJECT	EPCC - 06 PACKAGE - SULPHUR RECOVERY BLOCK AT PACHPADRA, BARMER DISTT., RAJASTHAN											
NAME OF CONTRACTOR	M/s MEIL											
NAME OF CLIENT	HPCL RAJASTHAN REFINERY LIMITED											
NAME OF PMC	ENGINEERS INDIA LIMITED											
LOA No.	HRRL/LOA/2021/21 Dt.23.08.2021											
SR. NO	DESCRIPTION OF EQUIPMENT / MATERIAL	UOM	BBU QTY	TAG NO	Amount As per SP Form	INR	L1	L2	L3	L4	Weightage	Amount as per BBU
												INR
3.2.3	CONSTRUCTION/ SITE WORK (as per FORM SP-3)					4,54,28,00,000.00						
3.2.3.7	Commissioning, Start-Up & PGTR					4,54,28,000.00	1.00%	100.00%				4,54,28,000.00
3.2.3.7.1	100% (hundred percent) on issue of Commissioning and Performance Test Certificate.	LS	1			4,54,28,000.00			100.00%			4,54,28,000.00
NOTES :	<ol style="list-style-type: none"> <li>All RCC Sub-structure shall include Application of Concrete Protection as per Job Specifications.</li> <li>This Billing Break up is for construction portion only.</li> <li>This billing break up is for releasing of payment only.</li> <li>Any arithmetic error found in the billing break up shall be corrected in due course so as to match the contractual bottom line figure.</li> <li>Taxes &amp; Duties shall be payable as per Tender conditions. It is the Contractor's responsibility to submit all the back up documents required for processing of the invoices.</li> <li>The billing break-up is for releasing payment only and price allocated against the individual item shall not be considered for any additional deletion/change order finalization in course of execution of the project.</li> <li>In case of delay in achieving the intermediate major milestone for EPCC06, applicable PRS shall be deducted as per the contract.</li> </ol>											



पौ. श्रीमद्/P. Sridhar  
वरिष्ठ प्रबंधक/Sr. Manager  
इंजीनियर्स इंडिया लिमिटेड  
ENGINEERS INDIA LIMITED

एन.जे. बहव  
सहायक महाप्रबंधक  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बार्मर  
RRP-Barmer

N.J. Baruah  
Asst. General Manager  
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RRP-Barmer

एक सौ दोहरा  
महाप्रबंधक (नियमानी)  
इंजीनियर्स इंडिया लिमिटेड  
आर.आर.पी. बार्मर  
RRP-Barmer

जे. बी. बोर्कर  
General Manager (Construction)  
Engineers India Limited  
RRP-Barmer

शिशिर कुमार मिश्रा Sisir Kumar Mishra  
अवासीय नियां प्रबंधक Resident Construction Manager  
इंजीनियर्स इंडिया लिमिटेड Engineers India Limited  
आर.आर.पी. बार्मर RRP-Barmer

द्रोनमराजु रामाराव वी.आर.एस  
DRO'NAMRAJU RAMARAO VRS  
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Deputy General Manager - Projects  
एचपीसीएल राजस्थान रिफाइनरी लिमिटेड  
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