

Material :FABRICATION OF REGENERATION GAS SCRUBBER

Tender Enquiry No: PROC/LF/PT/17185/17

EVALUATION WILL BE CARRIED OUT ON FULL

Sr No Description

> REGENERATION GAS SCRUBBER, 2488 MM H LINE TO WELD LINE), 700 MM ID, DESIGN PRE OPERATING PRESSURE 750 PSIG, TAG. NO. ATTCHED DRAWINGS# 165-8-MPV-001,002,

Special Note:- The prospective bidders also download the master set of Tender Document - The prospective bidders may keep in touch with OGDCL web site for downloading the clarifications/amendments (if any) issued by OGDCL. DELIVERY TERMS AS PER CLAUSE 20 OF TOR.PAYMENT TERMS AS PER CLAUSE 21 OF TOR.

Discount (if any) shall only be entertained on Schedule of Requirement of Bidding Document (Financial Proposal). If the discount is mentioned elsewhere in the bid, the same shall not be entertained.

OIL & GAS DEVELOPMENT COMPANY LIMITED PROCUREMENT DEPARTMENT (LOCAL), ISLAMABAD SCHEDULE OF REQUIREMENT

	Quantity	Make/Brand offered	Unit	Unit Price (PKR) Inclusive Of All Taxes Except GST	Unit Price (PKR) Inclusive of GST	Total Pri (PKR) Inclusive GST
HEIGHT (TANGENT RESSURE 950 PSIG.). V-9209, AS PER 2, 003 & 004 and TOR.	1		Number			

Due Da

Bid	Bond Value :	RS
Attachm	ent(if any) :	YE

2	to	
a	le	

6.145,000/-

rice e of Delivery deviation from Period Tender Spec. If Offered Any

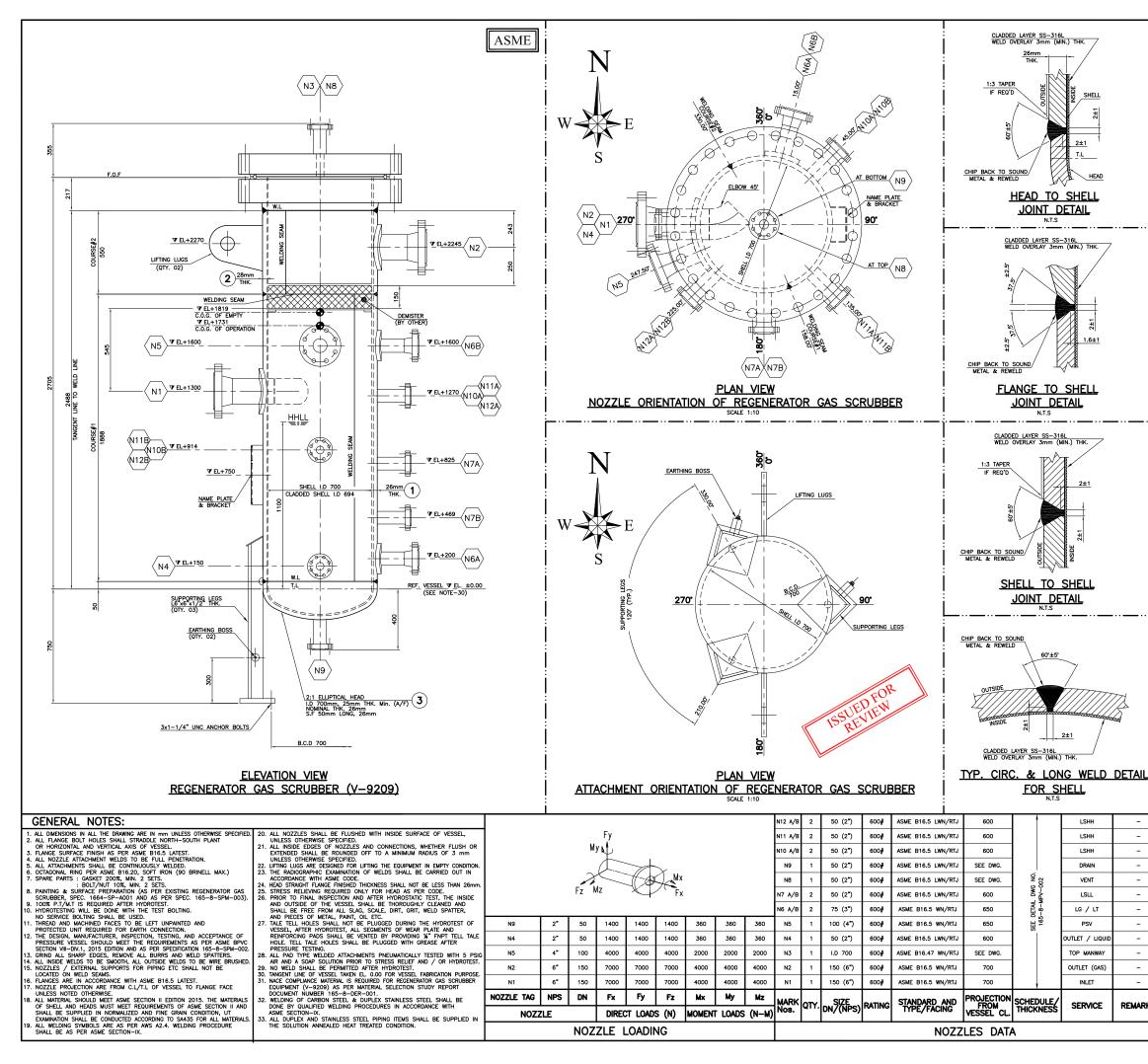
TERMS OF REFERENCE;

1. All the specifications / dimensions should be as per following drawings;

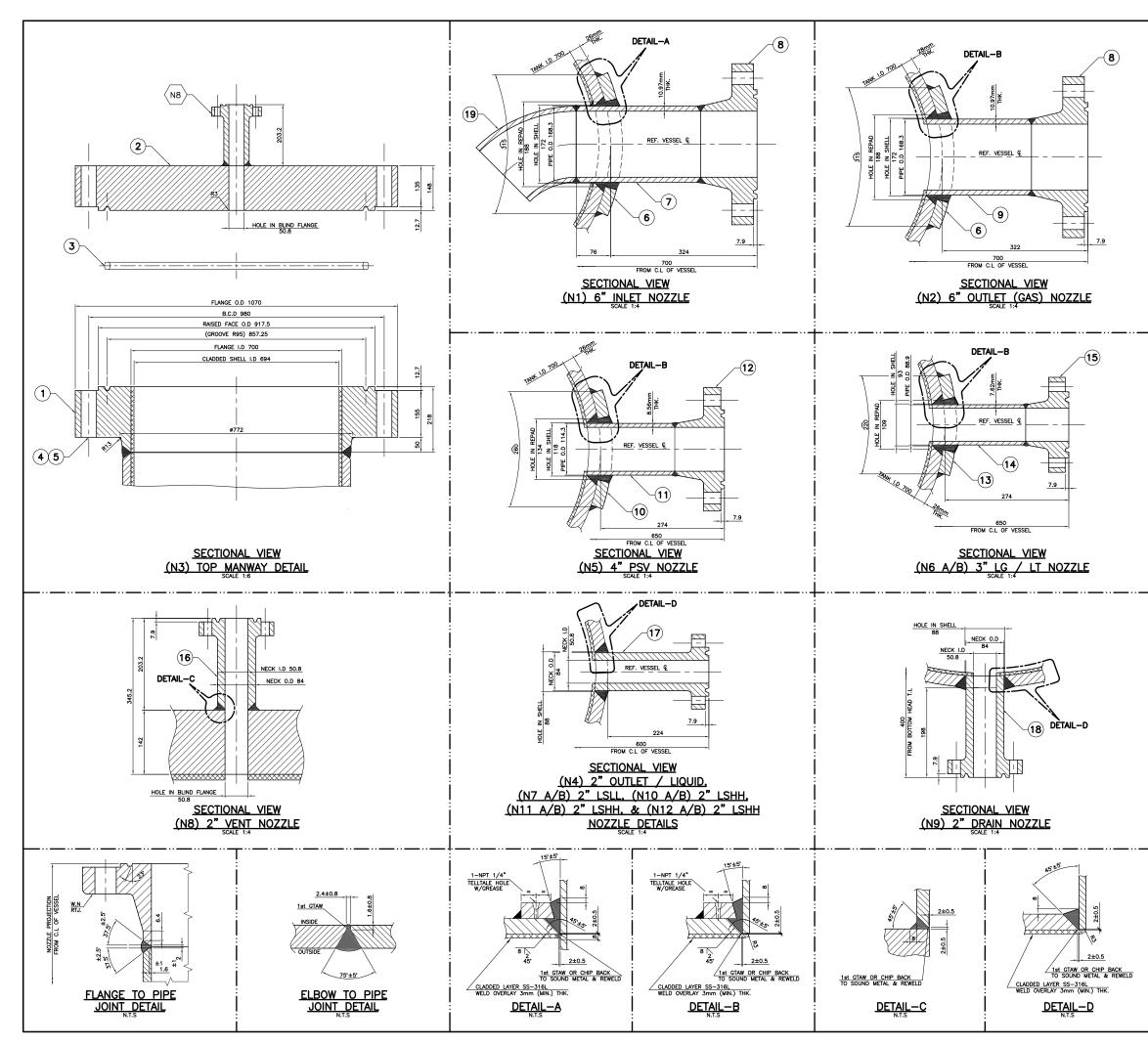
Equipment's Description	Drawing Nos.
	165-8-MPV-001
	165-8-MPV-002
Regeneration Gas Scrubber (V-9209)	165-8-MPV-003
	165-8-MPV-004

- 2. Bidder review the tender drawings and submit the IFC drawing.
- 3. Material specifications: strictly as per drawing. Compliance of the material with NACE-MR-0175 (sour gas service).
- 4. Scrubber shall be furnished with internal cladding of 03 mm SS316L as per drawing 165-8-MPV-001.
- 5. Radiography: 100%
- 6. Applicable code:
 - API Specification 12J.
 - ASME Boiler and Pressure Vessel Code, Section VIII, Division I.
 - American Society for Testing and Materials (ASTM).
 - ASME IX, Welding and Brazing Qualifications.
 - ASME V, Non-Destructive Testing.
 - ASME II, Material Specifications.
 - ASME B16.5 Pipe Flanges and Flanged Fittings.
 - ASME B31.8 Natural Gas Piping.
 - ASME B31.3 Liquid Piping.
 - ASME B16.20, Ring Joint Gaskets and Grooves for Steel Pipe Flanges.
 - N.A.C.E. Standard MR-0175 / ISO Standard 15156.
- 7. Only U-stamp authorized manufacturers will be considered for technical evaluation. Documents to be provided to prove validity.
- 8. U-stamping is required. All the scope of U-stamping i.e. Design Calculation, documentation, inspection etc will be in bidder scope.
- 9. Bidder should have experience of 05 years (2011~2016) for fabrication of high pressure vessels and must submit a list of his clients to whom equipment of similar nature has been supplied most recently also attach the previous purchase orders of last 05 years with technical bid.

- 10. Previous Experience of SS316 internal Cladded Vessel supplied of equipment in last five years. Separate list of internally cladded equipments should be attached with the bid, if not provided with the bid cannot be further evaluated.
- 11. Material should be of American / European / Japanese origin (valid with ISO 9001 certifications) and MTC to be provided during fabrication phase.
- 12. Stage inspections will be carried out at manufacturer site by OGDCL representative(s) and bidder will inform to OGDCL, at following stages;
 - a) After shipment of material.
 - b) During Manufacturing.
 - c) Hydro testing of equipment.
 - d) Before shipment after paint.
- 13. All the BOQ mentioned in the drawing is included in the scope of work / supply.
- 14. Demister Pad / other internals shall be provided with one set as spare.
- 15. Man-way, Inlet & Outlet Flange Gaskets with **one set spare** should be provided.
- 16. Bidder will supply all studs with following specifications;
 - a) Stud with 02 Nuts, Stud: SA193 (B7) Nuts: A194 (2H), Flouropolymer coated.
- 17. Guarantee / warrantee for the equipment for a period of 01 year after being taken into service or 18 months after shipment, whichever completes earlier.
- 18. Packaging and shipment procedures. Shipment in bidder scope.
- 19. Execution Plan of Project should be submitted.
- 20. Delivery period: 4 months after issuance of LPO.
- 21. Payment will be after Delivery at Qadirpur Store.
- 22. All the above terms & conditions should be clearly confirmed in technical bid and any non-compliance with the above terms and conditions should not acceptable.

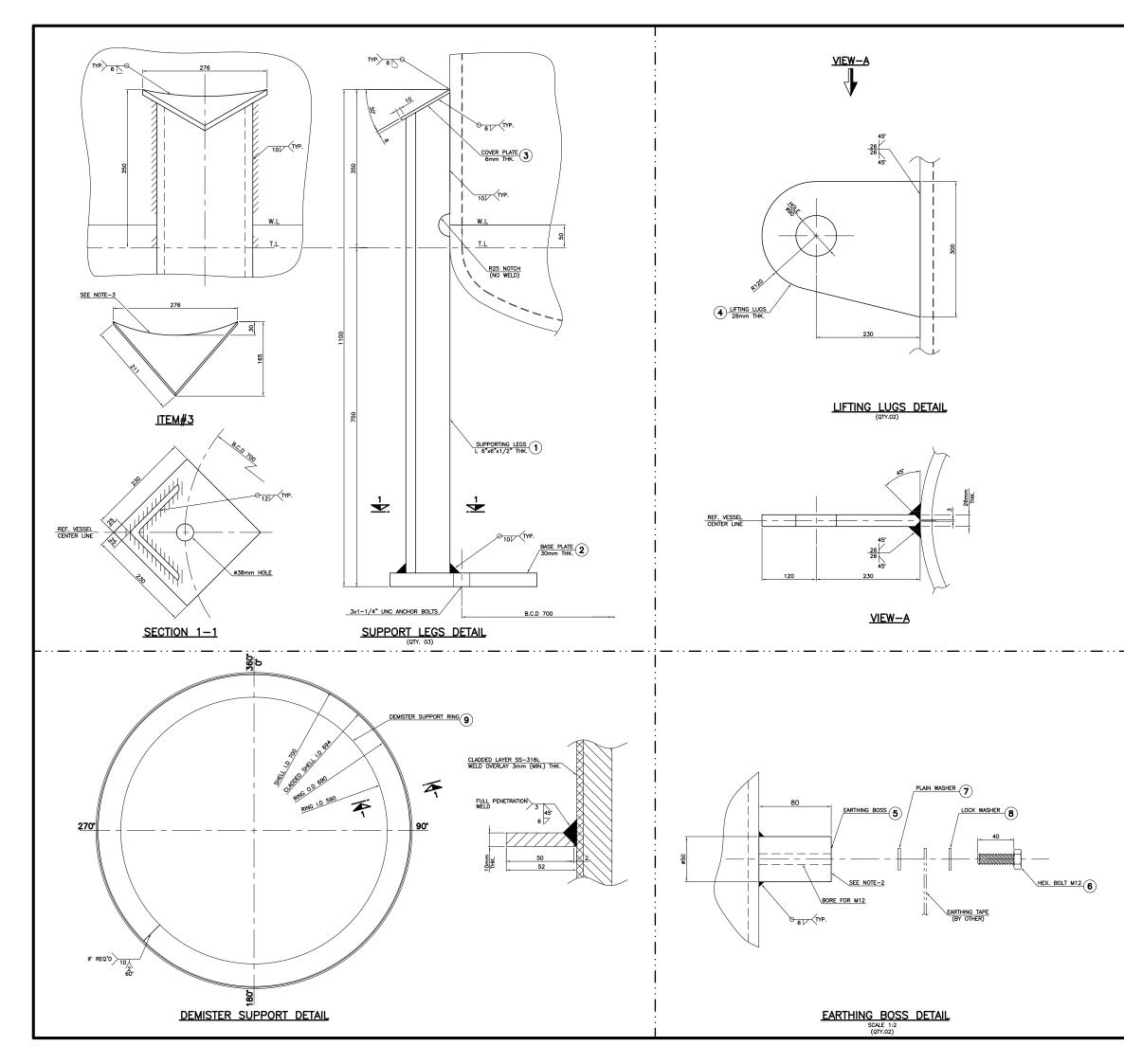


			REF	ERE	ENCE	E D	RAWINGS			
			DESCR	riptioi	N			0	OWG. N	08.
MANW	AY, NOZZLES F	ABRICATION	N & WEL	DING D	DETAILS			165	-8-MPV	-002
SUPPO	rting legs, lift	TING LUGS,	DEMISTER	SUPPO	ORT & E	ARTHING	G BOSS DETAILS	165	-8-MPV	-003
NAME	PLATE DETAILS							165	-8-MPV	-004
		1	NECH	IANI	CAL	DE	SIGN DA	TA		
DESIG	N CODE						ASME SECTION	VIII-DIV. 1,	EDITION	2015
	MENT TAG NUM	BER					V-9209			
QUANT							01 REGENERATION	GAS		
	U-STAMP						YES	0.10		
	DIAMETER		CHOTH			mm	700			
DENSI			ENGIN	к		mm lb/ft ³	2488 683.988 / 42	.7		
	AL CAPACITY					m³	1			
DESIG	N PRESSURE	INTERN/ EXTERN				/ MPa / MPa	950 / 6.55			
		INTERN				F / °C	600 / 315			
	N TEMPERATURE	EXTERN	IAL			F / °C	-			
	TING PRESSURE					/ MPa F / *C	750 / 5.17 84 / 29			
MDMT						F / °C				
MAWP		(psig	/ MPa		05414 500		
	SRAPHY (SHELL EFFICIENCY (SH		AD)				FULL (RT1) / 100 / 100	SEAMLESS		
	SION ALLOWAN		,			mm	0			
	STATIC TEST PI				psig	/ MPa	1272.85 / 8.			
	/ STRESS REL T TEST	ILVING					NO / YES (HI NO	AU UNLY)		
WIND	SPEED				mph /	Km/h	120 / 193.14			
WIND							UBC, EXPOSUR 2B, UBC 1997		_	
INSUL	C ZONE						2B, UBC 1997 NO	, 1-1.20		
	ING BOSS						02			
	L / NON-LETH	AL					NON-LETHAL			
	L EMPTY WEIGH	т		_		Kg				
	L OPERATING W	EIGHT				Kg	3983.9			
VESSE	l test weight					Kg	4380.3			
	SUF	POR	LO	ADS	FC	DR F	OUNDAT	ION DE	ESIG	N
	WIND SHEAR C						4707			
	EARTHQUAKE S					N mm	15092 6182585			
	EARTHQUAKE N						33012072			
MAX.	WIND SHEAR ON	N ONE LEC	G (TOP &	BOTT	OM)	N	1569			
	EARTHQ. SHEAR					N N-mm	5031 2040632			
	EARTHQUAKE M					N-mm N-mm				
MAX.	VERTICAL LOAD	(WT. + W	'IND) ON	ONE L	.EG	N	27317			
MAX.	VERTICAL LOAD	(WT. + E	Q.) ON C	DNE LE	G	N	91527			
					MA	TER	IALS			
SHE	LL	SA-	-516 Gr.	70 (N)	+ NAC	E MR01	75/ISO 15156+3	imm SA-240	TP-316L	CLADDING.
HEA	DS					-	75/ISO 15156+3			
FLAP	NGES (WN-RTJ)		R DUPLEX				182 Gr.F51 UNS			
FIN	NGES (LWN-RTJ		R CARBO			_	105N (N) (FINE			
PIPE		<i>.</i>	R DUPLEX			_	790, UNS S318			
INTE	RNALS AND ERNAL ATTACHM	REI	MOVEABLE			SA-	283 Gr.C / SA	-36		
	KNAL ATTACHM		LDED			_	516 Gr. 70 (N)			0 15156
BOL	T / NUTS		R DUPLEX				93 Gr.B8M CL-: 193 Gr.B7 / SA-			
FITT	NGS		R DUPLEX				815 UNS S3180			
	KETS						ME B16.20)		-/	
ANC	HOR BOLT	SA	–193 Gr.	B7						
	PORTING LEGS		-36							
	E PLATE		-283 Gr.		J)					
	ING LUGS THING BOSS		–516 Gr. –36	. /U (I	ッ					
-	E PLATE		-304							
í –										
1	BOTTOM HEAD	26mm T	нк.		1	SA- NACE	516 Gr. 70 (N) MR0175/ISO 1515	6 204.1 Kg	g/m²	143
3	SHELL PLATE	2287x550	x28 THK		1		516 Gr. 70 (N) MR0175/ISO 1515		n/m²	276
3					1		516 Gr. 70 (N) MR0175/ISO 1515			879
2		22012100	0X20 TH	ĸ.	<u> </u>	NACE I	MR0175/ISO 1515		-	
<u> </u>	SHELL PLATE				QTY.		ATERIAL	WT/U		1298
2	SHELL PLATE	SCRIPT	ION					1.0.04		.230
2	SHELL PLATE	SCRIPT								
2	SHELL PLATE	SCRIPT								
2 1 ITEM	SHELL PLATE	SCRIPT								
2 1 ITEM	SHELL PLATE	SCRIPT	IS		OR REV			MH	SMUA	
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE			RIPTIO	N OF RE	VISION		DRAWN	CHECK	D APPR
	SHELL PLATE DE	IL & (DE			PMENT			D APPR
	SHELL PLATE DE	IL & (DE			PMENT EA, JINNAH AVENUE			D APPR
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE DATE	IL & (IL HOUSE TO CL HOUSE TO	IS DESC GAS OWER-B, FIF 3033, PHON	DE RST FLOC E: +92-51	N OF RE	UISION LOF BLUE AR	EA, JINNAH AVENUE			D APPR
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE DATE	IL & (IL HOUSE TO CL HOUSE TO	IS DESC GAS OWER-B, FIF 3033, PHON	DE RST FLOC E: +92-51	N OF RE		EA, JINNAH AVENUE		CHECKE PANY ISTAN	D APPR
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE DATE	IL & (IL & (IL HOUSE TO ICL H	IS DESC GAS OWER-B, FIF 3033, PHON Engi 9001-21		VEI DR F6/G6, -9209859	LOF BLUE AR Pvt.	ea, jinnah avenue	DRAWN COMP ISLAMABAD PAK	CHECKE CANY ISTAN	D APPR
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE OCO PATE DATE DATE CO PATE DATE DATE CO PATE DATE DATE DATE DATE DATE DATE DATE D	IL & (cl house tr (: +92 51 262: shan An ISO 4 2-21) 3433304	IS DESC GAS OWER-B, FIF 3033, PHON Engli 9001-2: 7/F Book 6, 1 5-48, 8, 343	CRIPTIO DE RST FLOC E: +92-51 neei 008 cu PECHS, F	N OF RE VEI DR F6/G6, -9209859 rs (ertifiec (arachi-Pa Fax: (92-	VISION LOF BLUE AR Pvt. d comp	ea, JINNAH AVENUE) Ltd. Dany 430 & 34310156	DRAWN COMP ISLAMABAD PAK DWG. 165	CHECK	LTD
2 1 ITEM	SHELL PLATE DE 09-09-2017 DATE OCO PATE DATE DATE CO PATE DATE DATE CO PATE DATE DATE DATE DATE DATE DATE DATE D	IL & (cl house tr (: +92 51 262: shan An ISO 4 2-21) 3433304	IS DESC GAS OWER-B, FIF 3033, PHON Engli 9001-2: 7/F Book 6, 1 5-48, 8, 343	CRIPTIO DE RST FLOC E: +92-51 neei 008 cu PECHS, F	N OF RE VEI DR F6/G6, -9209859 rs (ertifiec (arachi-Pa Fax: (92-	VISION LOF BLUE AR Pvt. d comp	ea, JINNAH AVENUE Ltd. Dany	DRAWN COMP ISLAMABAD PAK	CHECK	LTD
2 1 ITEM	SHELL PLATE DE: 09-09-2017 DATE OFF PATE PLTANT. Zis E-Ma	IL & (CCL HOUSE TO K: +92 51 262: shan An ISO 4 2-21) 3433304 4 2-21) 3433304 11: contact@zb	IS DESC OMER-B, FIF 3033, PHON Engli 9001-21 7/F Block 6, 5-48, 8, 3433 shanenginee	DE RST FLOO E: +92-51 Neel 008 Cl PECHS, F 10151-54, rs.com W	N OF RE VEI DR F6/G6, -9209859 rs (ertifiec (arachi-Pa Fax: (92- Vebsite: w	VISION LOF BLUE AR Pvt. Comp kistan 21) 34533 www.zishan	EA, JINNAH AVENUE Ltd. Dany 430 & 34310156 engineers.com	DRAWN COMP ISLAMABAD PAK DWG. 165	CHECK PANY ISTAN NO. i-8-MF A	LTD
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		IL & (cc. HOUSE TI k: +92 51 282: shan An ISO 4 2-21) 3439304 II: contact@zit USC ENER/ OGDC NERAL	IS DESC DAS OWER-B, FIF 3033, PHON Engli 9001-21 7/F Block 6, 2343 shanenginee ATOR L QAD ARRA	GAS DE GAS DE TECHO TECHO TECHO TOTST-54, TOTS	N OF RE VEI DR F6/G6, -9209859 rs () ertifiec (arachi-Pa Fax: (92- Vebsite: w SCR UR G	VISION LOF BLUE AR COMP LISTAN SUBB AS P IT DF) Ltd. Dany 430 & 34310156 engineers.com ER V-9209 LANT) RAWING	DRAWN COMP ISLAMABAD PAK DWG. 165 REV.	NO istan A IO.	APPF V-001 8
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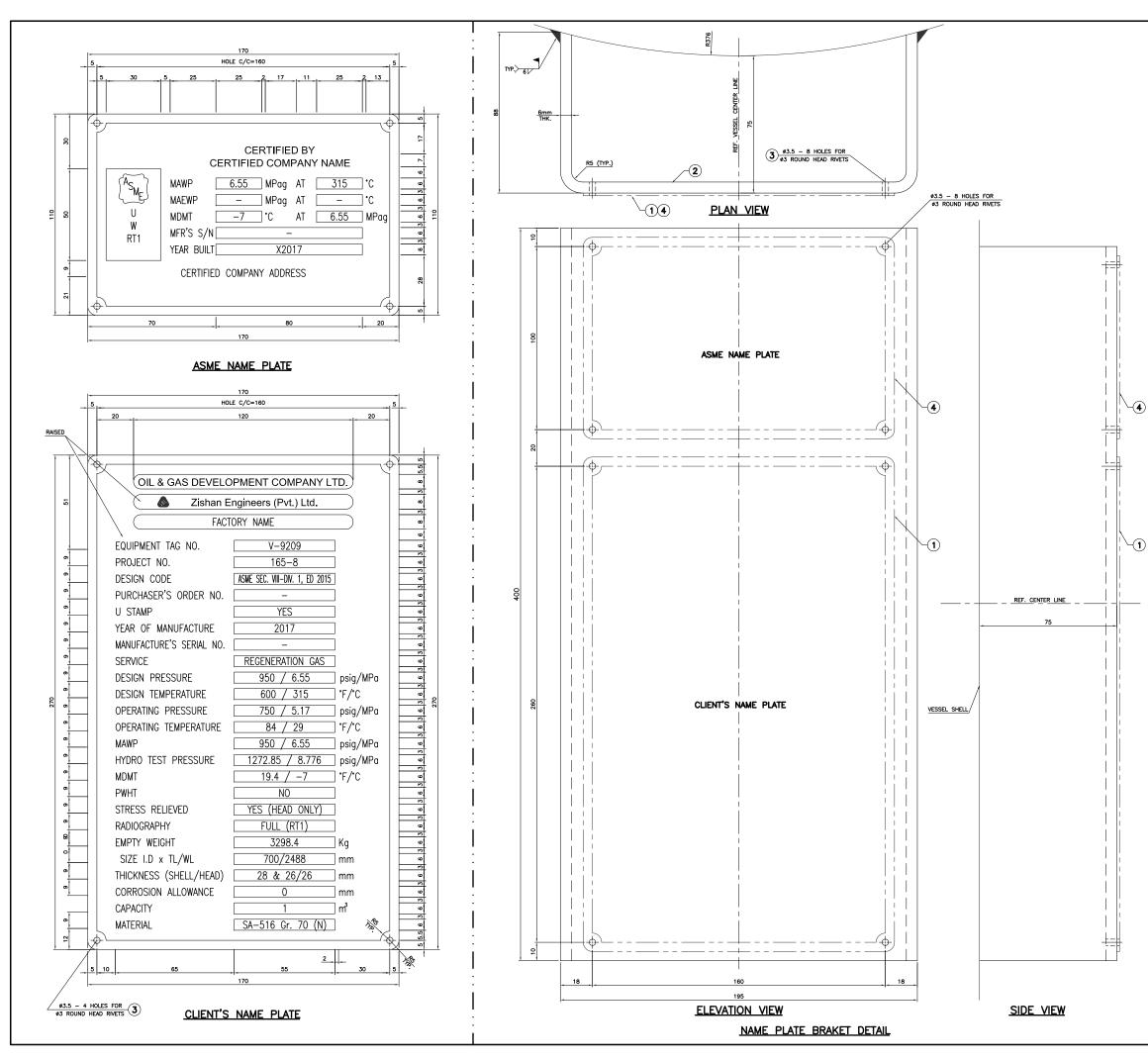


	RAL ARRAN	DESCRIPTION	AS SC	RUBBER (V-9209)		DWG. N 165-8-MPV-	
		ISSI	EL	FOR	\$		
19	ELBOW 6"	45° LR SCH 805.	1	SA-815 UNS S31 NACE MR0175/ISO 1	803 5156	8.2 Kg/PC.	8
18	FLANGE 2"	600# L.W.N.RTJ x 226 LONG.	1	SA-182 Gr.F51 UNS S NACE MR0175/ISO 1	31803 5156	10.1 Kg/PC.	10
17		600# L.W.N.RTJ × 253 LONG.	9	SA-182 Gr.F51 UNS S NACE MR0175/ISO 1 SA-182 Gr.F51 UNS S		10.8 Kg/PC.	97
16 15		600# L.W.N.RTJ × 203 LONG. 600# W.N.RTJ × SCH 80S.	1	SA-182 Gr.F51 UNS S NACE MR0175/ISO 1 SA-182 Gr.F51 UNS S NACE MR0175/ISO 1		9.48 Kg/PC. 10.5 Kg/PC.	9 21
14		CH.80S x 207	2	SA-790, UNS S31 NACE MR0175/ISO 1	803 5156	15.37 Kg/m	6
13	REPAD 0.0	0 220 x I.D 109 x 26mm THK.	2	SA-516 Gr. 70 NACE MR0175/ISO 1	(N) 5156	204.1 Kg/m²	12
12		600# W.N.RTJ × SCH 80S.	1	SA-182 Gr.F51 UNS S NACE MR0175/ISO 1 SA-790 UNS S31	31803 5156 803	19 Kg/PC	19
11		CH.80S x 195	1	SA-790, UNS S31 NACE MR0175/ISO 1 SA-516 Gr. 70 NACE MR0175/ISO 1	5156 (N)	22.46 Kg/m	4
10 9		0 260 x I.D 134 x 26mm THK. CH.80S x 235	1	NACE MR0175/ISO 1 SA-790, UNS S31 NACE MR0175/ISO 1		204.1 Kg/m² 42.83 Kg/m	8 10
8		600# W.N.RTJ × SCH 80S.	2	NACE MR0175/ISO 1 SA-182 Gr.F51 UNS S NACE MR0175/ISO 1		37 Kg/PC	74
7		CH.80S x 275	1	SA-790, UNS S31 NACE MR0175/ISO 1	803 5156	42.83 Kg/m	12
6	REPAD 0.0) 315 x I.D 188 x 26mm THK.	2	SA-516 Gr. 70 NACE MR0175/ISO 1		204.1 Kg/m²	20
	WASHER F	OR 1 7/8" BOLTS.	24	SA-36		28.4 Kg/100 PCs.	7
5			24	SA-193 Gr.B7 SA-194 Gr.2H HE	x	793.5 Kg/100 PCs.	190
4	Stud Bolt	1 7/8" x 450mm LONG WITH TWO NUTS			-		
4 3	STUD BOLT	L RING R-95 (SEE NOTE-3)	1	SS-304 SA-105N		- 1015 Kg/PC	-
4	STUD BOLT OCTAGONA FABRICATED			SS-304 SA-105N NACE MR0175/ISO 1	5156	– 1015 Kg/PC 676.7 Kg/PC	- 1015 677
4 3 2 1	STUD BOLT OCTAGONAI FABRICATED FABRICATED	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN)	1 1 1	SS-304 SA-105N NACE MR0175/IS0 1 SA-105N NACE MR0175/IS0 1	5156	1015 kg/PC 676.7 kg/PC WT./UNIT	1015 677
4 3 2 1	STUD BOLT OCTAGONAI FABRICATED FABRICATED	l Ring R-95 (see note-3) Blind Flange 600# RTJ (as shown)	1	SS-304 SA-105N NACE MR0175/ISO 1	5156	1015 Kg/PC 676.7 Kg/PC	1015
4 3 2 1 TEM	STUD BOLT OCTAGONA FABRICATED FABRICATED D D OTES: 1. ALL DII 2. ALL MA 3. OCTAGC 4. FOR AL 5. WELDIN PROCEI	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN) ESCRIPTION MENSIONS ARE IN mm UNLESS OT CHINED SURFACE OF THE FORGING INAL RING PER ASME B16.20, SOF CHINED SURFACE OF THE FORGING INAL RING PER ASME B16.20, SOF G OF CARBON STEEL & DUPLEX S DURES IN ACCORDANCE WITH ASME	1 1 1 QTY.	SS-304 NACE MR0175/S0 1 NACE MR0175/S0 1 MATERIAL MATERIAL SE STATED. LL BE NO CRACKS A N (90 BRINELL MAX. ARRANCEMENT DRAM ESS STELL SHALL BH ION-IX.	5156 5156 9 Ving. 2 Don	1015 Kg/PC 676.7 Kg/PC WT./UNIT TOTAL WT.(Kg.) AWS OF WEAKE E BY QUALIFIED	1015 677 TOTAL(K 2199
4 3 2 1	STUD BOLT OCTAGONA FABRICATED FABRICATED D D D D D D D D D D D D D D D D D D	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN) ESCRIPTION MENSIONS ARE IN mm UNLESS OT CHINED SURFACE OF THE FORGIN CHINED SURFACE OF THE FORGIN NUAL RING PER ASME B16.20, SOF L NOZLES ELEVATION SEE IN GE O OF CARBON STEEL & UDVLEX S	HERWIN 3 SHA 5 TIRO NERAL STAINL 2 SEC	SS-304 SA-105N NACE MR0175/S0 1 NACE MR0175/S0 1 MATERIAL SE STATED. LL BE NO CRACKS A N (90 BRINELL MAX. ARRANGEMENT DRAY ESS STEEL SHALL BE TION-IX.	5156 5156 5156 Ving. E Don	1015 Kg/PC 676.7 Kg/PC WT./UNIT TOTAL WT.(Kg.)	1015 677 TOTAL(K 2199 EN PROPER
4 3 2 1 FEM	STUD BOLT OCTAGONA FABRICATED FABRICATED D D D D D D D D D D D D D D D D D D	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN) ESCRIPTION MENSIONS ARE IN mm UNLESS OT CHINED SURFACE OF THE FORGING NUAL RING PER ASME BIG.20, SOF L NOZLES ELEVATION SEE IN GE O OF CARBON STEEL & UDULEX 3 DURES IN ACCORDANCE WITH ASME	HERWI 3 SHA T IRO NERAL STAINL E SEC	SS-304 NACE WR0175/S0 1 NACE WR0175/S0 1 MATERIAL SE STATED. LL BE NO CRACKS A N (90 BRINELL MAX. ARRANGEMENT DRAY ESS STELL SHALL BH TION-IX.	5156 5156 5156 VING. 2 DON	1015 Kg/PC 676.7 Kg/PC WT./UNIT TOTAL TOTAL WT./UNIT	1015 677 TOTAL(K 2199 EN PROPER D WELDING
4 3 2 1 TEM	STUD BOLT OCTAGONA FABRICATED FABRICATED D D OTES: 1. ALL DIA 2. ALL DIA 2. ALL DIA 3. OCTAGC 4. FOR AL 5. WELDIN PROCEI	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN) ESCRIPTION ESCRIPTION MENSIONS ARE IN mm UNLESS OT CHINED SURFACE OF THE FORGING NAL RING PER ASME B16.20, SOF CHINED SURFACE OF THE FORGING NAL RING PER ASME B16.20, SOF G OF CARBON STEEL & DUPLEX S DURES IN ACCORDANCE WITH ASME ISSUED FOR R DESCRIPTION OF OIL & GAS DEVI OODCL HOUSE TOWERE, FIRST FLOOR FO	1 1 1 1 1 QTY. HERWIN 3 SHA 5	SS-304 NACE MR0175/S0 1 NACE MR0175/S0 1 MATERIAL SE STATED. LL BE NO CRACKS A N (90 BRINELL MAX. ARRANGEMENT DRA SS STELL SHALL BE TON DPMENT (DPMENT (1015 Kg/PC 676.7 Kg/PC WT./UNIT TOTAL TOTAL WT./UNIT	1015 677 TOTAL(K 2199 EN PROPER
4 3 2 1 TEM	STUD BOLT OCTAGONA FABRICATED FABRICATED D D OTES: 1. ALL DII 2. ALL MA 3. OCTAGC 4. FOR AL 4. FOR AL 4. FOR AL 5. WELDIN PROCEI	L RING R-95 (SEE NOTE-3) BLIND FLANGE 600# RTJ (AS SHOWN) FLANGE 600# W.N.RTJ (AS SHOWN) ESCRIPTION MENSIONS ARE IN mm UNLESS OT CHINED SURFACE OF THE FORGING INAL RING PER ASME B16.20, SOF CHINED SURFACE OF THE FORGING INAL RING PER ASME B16.20, SOF G OF CARBON STEEL & DUPLEX S DURES IN ACCORDANCE WITH ASME ISSUED FOR R DESCRIPTION OF OUL & GAS DUPLEX S OURSES IN ACCORDANCE WITH ASME ISSUED FOR R DESCRIPTION OF OSCIL HOUSE TOWERA, FIRST FLOOR FE FAX: 142 51 202303, PHONE: +92-51-9209 TISSUED FOR R AN ISO 9001-2008 certif AIT BLO 9001-2008 certif Tet: (92-21) 34907-846, & 3, PECHS, Faran Tet: (92-91) 3407-866, & 3, PECHS, Faran Tet: (92-9		SS-304 NACE MR0175/S0 1 NACE MR0175/S0 1 MATERIAL SE STATED. LL BE NO CRACKS A N (90 BRINELL MAX. ARRANGEMENT DRA ESS STELL SHALL BE TION-TX. TON DPMENT (AREA, JINNAH AVENUE TON DPMENT (AREA, JINNAH AVENUE TON DPMENT (AREA, JINNAH AVENUE		1015 кg/PC 676.7 кg/PC WT./UNIT TOTAL WT.(Kg.) AWS OF WEAKE E BY QUALIFIED AH AWN CHECKE MPANY AD PAKISTAN NG. NO. 165-8-MP'	1015 677 TOTAL(K 2199 2199 2 SAA 0 WELDING 2 SAA 0 APPR 2 LTD
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REFERENCE DRAWINGS



REFERENCE DRAWINGS		
DESCRIPTION	DWG.	
GENERAL ARRANGEMENT DRAWING FOR REGEN GAS SCRUBBER (V-9209)	165-8-MP	v-001
9 DEMISTER SUPPORT RING 0.D 690 x 1.D 590 x 10mm THK 1 SA-240 316	L 80.3 Kg/m²	8
8 LOCK WASHER FOR M12 2 304 S.S	5.85 Kg/1000 Pc	_
7 PLAIN WASHER FOR M12 2 304 s.s 6 HEX. BOLT FOR M12 x 40 LONG. (FULL THREADED) 2 304 s.s	5.85 Kg/1000 Pc 68.5 Kg/1000 Pc	_
5 EARTHING BOSS O.D 50 x I.D 12 x 80 LONG. 2 SA-36	1.16 Kg/PC	
4 LIFTING LUGS 26mm THK. (AS SHOWN) 2 SA-516 GR. 70		-
3 COVER PLATE 6mm THK. (AS SHOWN) 3 SA-516 GR. 70 2 BASE PLATE 230x230x30mm THK. 3 SA-283 Gr.0		
2 DASE FERE 200200000000000000000000000000000000	27.3 Kg/m	_
ITEM DESCRIPTION QTY. MATERIAL	WT./UNIT TOTAL WT.(Kg	
NOTES: 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED. 2. THREAD AND MACHINED FACES TO BE LEFT UNPAINTED AND PROTE FOR EARTH CONNECTION. 3. COVER PLATE PROFILE AT WELD POINT (VESSEL SHELL) TO BE AD 4. DEMISTER IS A VENDOR TIEM. 5. WELDING OF DEMISTER INTERNAL SUPPORT RING SHALL BE DONE PROCEDURES IN ACCORDANCE WITH ASME SECTION-IX.	JUSTED AS PER SI	TE.
A 09-09-2017 ISSUED FOR REVIEW REV. DATE DESCRIPTION OF REVISION	MH SMU DRAWN CHECK	A SAA KED APPR.
CLIENT. OODL HOUSE TOWERB, FIRST FLOOR FUGB, BLUE AREA, JINNAH AVENUE I FAX: 142 ST262333, PHONE: 1422-14220892	COMPAN' SLAMABAD PAKISTAN	Y LTD.
CONSULTANT. Signa Construction	DWG. NO. 165-8-MF REV. A	PV-003
An ISO 9001-2008 certified company 47/F Block 6, PECHS, Karachi-Pakistan Tet: (92-21) 3433045-48, 343101515-6, Pac: (92-21) 34533430 & 34310156	DWG NO 165-8-MF	
An ISO 9001-2008 certified company 477 Block 6, FCHS, Karachi-Palatan Tel: (22:7) 38034-84, 83 381015-84 Rex: (22:7) 4803400 8 34310156 E-Mail: contact@zishanengineers.com Website: www.zishanengineers.com PROJECT : REGENERATOR GAS SCRUBBER V-9209	DWG. NO. 165-8-MF REV. A JOB NO.	-8



		DF	SCRIPTION			1 1	DWG. N	Ο.
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-		10 × 170 × 3mm	n THK.	1		23.5	ō Kg/m²	
4 3 2	ROUND I	10 x 170 x 3mm HEAD RIVET M3 20 x 350 x 6mm		1 8 1	SS-304 SS 316L SA-516 Gr.70		5 Kg/m² - Kg/m²	1 - 7
3	ROUND H	HEAD RIVET M3	n THK.	8	SS 316L	(N) 47.1 23.55	– Kg/m² ō Kg/m²	- 7 1
3 2 1	ROUND H PLATE 44 PLATE 2	HEAD RIVET M3 00 x 350 x 6mm	n THK.	8	SS 316L SA-516 Gr.70	(N) 47.1 23.55 WT.	– Kg/m² ō Kg/m² /UNIT	- 7 1 TOTAL(K
3 2 1	ROUND H PLATE 44 PLATE 2	HEAD RIVET M3 00 x 350 x 6mm 70 x 170 x 3mm	n THK.	8 1 1	SS 316L SA-516 Gr.70 SS-304	(N) 47.1 23.55 WT.	– Kg/m² ō Kg/m²	- 7
3 2 1	ROUND H PLATE 44 PLATE 2	HEAD RIVET M3 00 x 350 x 6mm 70 x 170 x 3mm	n THK.	8 1 1	SS 316L SA-516 Gr.70 SS-304	(N) 47.1 23.55 WT.	– Kg/m² ō Kg/m² /UNIT	- 7 1 TOTAL(K
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