



QADIRPUR COMPRESSION PROJECT

ISSUED FOR APPROVAL

A	29-Mar-2019	ISSUED FOR APPROVAL	SHK	JAY	JAY	MPM	TH		
REV	DATE	DESCRIPTION	ORIG	CHKD	LE	QA	PM		
REVISIONS			APPROVAL				OWNER APPROVAL		



ENAR PETROTECH SERVICES (PVT.) LTD.

7-B, KORANGI INDUSTRIAL AREA,
KORANGI-KARACHI

TITLE :

LINE LIST

DOCUMENT NO:

0220

A

1103

A

PROJECT NO.

14-0220

CODE

TYPE

SEQ. NO.

REV



LINE LIST TRAIN B

S.No	Line Numbers	Description	From	To	Operating Temperature (°F)	Operating Pressure (psig)	Design Temperature (°F)	Design Pressure (psig)	P&ID No.
1	20"-G-BA2-25101	Gas Suction Header	Suction Header	ESDV 001 B	121.7	200	200	675	97033-AR028-A1
2	14"-G-BA2-25102	Bypass line	ESDV 001 B	PCV 001B	121.7	200	200	675	97033-AR028-A1
3	20"-G-BA2-25103	1st stage scrubber inlet line	PCV 001 B	1st stage suction scrubber	121.7	200	200	675	97033-AR028-A1
4	24"-G-BA2-25104	1st stage scrubber discharge to LP Compressor	1st stage suction scrubber	C-1501 B	121.7	200	200	675	97033-AR028-A1
5	2"-G-BA2-25105	1st stage scrubber discharge line to PSV	1st stage suction scrubber	2"-G-BA2-25106 2"-G-BA2-25107	121.7	200	200	675	97033-AR028-A1
6	2"-G-BA2-25106	Upstream 15 PSV 001 B	2"-G-BA2-25105	PSV 001 B	121.7	200	200	675	97033-AR028-A1
7	2"-G-BA2-25107	Upstream 15 PSV 002 B	2"-G-BA2-25105	PSV 002 B	121.7	200	200	675	97033-AR028-A1
8	24"-G-BA2-25108	LP Compressor suction line train B	S-1501 B	LP Compressor train B	122	200	200	675	97033-AR029-A1
9	18"-G-BA2-25109	LP Compressor discharge line train B	LP Compressor train B	Interstage Cooler EA 1501 B	295.4	330	300	655	97033-AR029-A1
10	16"-G-BA2-25110	Downstream Inter Cooler EA-1501 B	Interstage Cooler EA 1501 B	2nd stage suction scrubber	140	320	200	675	97033-AR0030-A1
11	14"-G-BA2-25111	Recycle line	18"-G-BA2-25110	15 FCV 001 B	140	320	200	675	97033-AR0030-A1
12	18"-G-BA2-25112	Recycle line	15 FCV 001 B	1st stage suction scrubber	121.7	200	200	675	97033-AR0030-A1
13	16"-G-BA2-25117	HP Compressor Discharge line train B	HP Compressor train B	After Cooler 1502 B	320	520	400	635	97033-AR0033-A1
14	20"-G-BA2-25113	HP Compressor Suction line train B	2nd stage suction scrubber	C-1502 B	139.5	315	200	675	97033-AR0032-A1
15	2"-G-BA2-25114	Scrubber Pressure relief line train B	2nd stage suction scrubber	2"-G-BA2-25115 A 2"-G-BA2-25115 B	139.5	315	200	675	97033-AR0032-A1
16	2"-G-BA2-25115 A	upstream 15 PSV 003 B	2"-G-BA2-25114	15 PSV 003 B	139.5	315	200	675	97033-AR0032-A1
17	2"-G-BA2-25115 B	upstream 15 PSV 004 B	2"-G-BA2-25114	15 PSV 004 B	139.5	315	200	675	97033-AR032-A1
18	14"-G-BA2-25118	Downstream After Cooler EA-1502 B	After Cooler 1502 B	Discharge Manifold	140	510	200	675	97033-AR0031-A1
19	12"-G-BA2-25119	Recycle line	14"-G-BA2-25118	15 FCV 002 B	140	510	200	675	97033-AR0031-A1
20	14"-G-BA2-25120	Recycle line	15 FCV 002 B	Interstage Cooler EA 1501 B	120	315	200	675	97033-AR0031-A1
21	3"-G-BA2-25121	Flare line	14"-G-BA2-25118	15 BDV 008 B	140	510	200	675	97033-AR0031-A1
22	2"-WP-BA2-25101	Produce water line train B	1st stage suction scrubber	15 LCV 001 B	122	200	200	675	97033-AR028-A1
23	2"-WP-BA2-25102	Produce water line train B	2nd stage suction scrubber	15 LCV 002 B	139.5	315	200	675	97033-AR0032-A1
24	3"-FL-AB-25101	PSV 001 B downstream to flare header	15 PSV 001 B	Flare Header	ATM	ATM	200	250	97033-AR028-A1
25	3"-FL-AB-25102	PSV 002 B downstream to flare header	15 PSV 002 B	Flare Header	ATM	ATM	200	250	97033-AR028-A1
26	2"-FL-AA2-25103	Compressor Vent train B	LP Compressor train B	GBs Vent train B	ATM	ATM	200	250	97033-AR029-A1
27	3"-FL-AB-25104	PSV 003 B downstream to flare header	15 PSV 003 B	Flare Header	ATM	ATM	200	250	97033-AR0032-A1
28	3"-FL-AB-25105	PSV 004 B downstream to flare header	15 PSV 004 B	Flare Header	ATM	ATM	200	250	97033-AR0032-A1
29	4"-FL-AB-25106	Flare line	15 BDV 008 B	Flare Header	ATM	ATM	200	250	97033-AR0031-A1



LINE LIST TRAIN C

S.No	Line Numbers	Description	From	To	Operating Temperature (°F)	Operating Pressure (psig)	Design Temperature (°F)	Design Pressure (psig)	P&ID No.
1	20"-G-BA2-25201	Gas Suction Header	Suction Header	ESDV 001 C	121.7	200	200	675	97033-AR034-A1
2	14"-G-BA2-25202	Bypass line	ESDV 001 C	PCV 001C	121.7	200	200	675	97033-AR034-A1
3	20"-G-BA2-25203	1st stage scrubber inlet line	PCV 001 C	1st stage suction scrubber	121.7	200	200	675	97033-AR034-A1
4	24"-G-BA2-25204	1st stage scrubber discharge to LP Compressor	1st stage suction scrubber	C-1501 C	121.7	200	200	675	97033-AR034-A1
5	2"-G-BA2-25205	1st stage scrubber discharge line to PSV	1st stage suction scrubber	2"-G-BA2-25206 2"-G-BA2-25207	121.7	200	200	675	97033-AR034-A1
6	2"-G-BA2-25206	Upstream 15 PSV 001 C	2"-G-BA2-25205	PSV 001 C	121.7	200	200	675	97033-AR034-A1
7	2"-G-BA2-25207	Upstream 15 PSV 002 C	2"-G-BA2-25205	PSV 002 C	121.7	200	200	675	97033-AR034-A1
8	24"-G-BA2-25208	LP Compressor suction line train C	S-1501 C	LP Compressor train C	122	200	200	675	97033-AR035-A1
9	18"-G-BA2-25209	LP Compressor discharge line train C	LP Compressor train C	Interstage Cooler EA 1501 C	295.4	330	300	655	97033-AR035-A1
10	16"-G-BA2-25210	Downstream Inter Cooler EA-1501 C	Interstage Cooler EA 1501 C	2nd stage suction scrubber	140	320	200	675	97033-AR036-A1
11	14"-G-BA2-25211	Recycle line	18"-G-BA2-25210	15 FCV 001 C	140	320	200	675	97033-AR036-A1
12	18"-G-BA2-25212	Recycle line	15 FCV 001 C	1st stage suction scrubber	121.7	200	200	675	97033-AR036-A1
13	16"-G-BA2-25217	HP Compressor Discharge line train C	HP Compressor train C	After Cooler 1502 C	320	520	400	635	97033-AR039-A1
14	20"-G-BA2-25213	HP Compressor Suction line train C	2nd stage suction scrubber	C-1502 C	139.5	315	200	675	97033-AR038-A1
15	2"-G-BA2-25214	ScruCCer Pressure relief line train C	2nd stage suction scrubber	2"-G-BA2-25215 A 2"-G-BA2-25215 B	139.5	315	200	675	97033-AR038-A1
16	2"-G-BA2-25215 A	upstream 15 PSV 003 C	2"-G-BA2-25214	15 PSV 003 C	139.5	315	200	675	97033-AR038-A1
17	2"-G-BA2-25215 B	upstream 15 PSV 004 C	2"-G-BA2-25214	15 PSV 004 C	139.5	315	200	675	97033-AR039-A1
18	14"-G-BA2-25218	Downstream After Cooler EA-1502 C	After Cooler 1502 C	Discharge Manifold	140	510	200	675	97033-AR037-A1
19	12"-G-BA2-25219	Recycle line	14"-G-BA2-25218	15 FCV 002 C	140	510	200	675	97033-AR037-A1
20	14"-G-BA2-25220	Recycle line	15 FCV 002 C	Interstage Cooler EA 1501 C	120	315	200	675	97033-AR037-A1
21	3"-G-BA2-25221	Flare line	14"-G-BA2-25218	15 BDV 008 C	140	510	200	675	97033-AR037-A1
22	2"-WP-BA2-25201	Produce water line train C	1st stage suction scrubber	15 LCV 001 C	122	200	200	675	97033-AR034-A1
23	2"-WP-BA2-25202	Produce water line train C	2nd stage suction scrubber	15 LCV 002 C	139.5	315	200	675	97033-AR038-A1
24	3"-FL-AB-25201	PSV 001 B downstream to flare header	15 PSV 001 C	Flare Header	ATM	ATM	200	250	97033-AR034-A1
25	3"-FL-AB-25202	PSV 002 B downstream to flare header	15 PSV 002 C	Flare Header	ATM	ATM	200	250	97033-AR034-A1
26	2"-FL-AA2-25203	Compressor Vent train B	LP Compressor train B	GCs Vent train C	ATM	ATM	200	250	97033-AR035-A1
27	3"-FL-AB-25204	PSV 003 C downstream to flare header	15 PSV 003 C	Flare Header	ATM	ATM	200	250	97033-AR038-A1
28	3"-FL-AB-25205	PSV 004 C downstream to flare header	15 PSV 004 C	Flare Header	ATM	ATM	200	250	97033-AR038-A1
29	4"-FL-AB-25206	Flare line	15 BDV 008 C	Flare Header	ATM	ATM	200	250	97033-AR037-A1



LINE LIST INLET RECEPTION

S.No	Line Numbers	Description	From	To	Operating Temperature (°F)	Operating Pressure (psig)	Design Temperature (°F)	Design Pressure (psig)	P&ID No.
1	6"-WP-BA2-20501	SLUG CATCHER TO PRODUCED WATER PUMP P-2051A/B	M-2001	PRODUCED WATER PUMP P-2051A/B	122	75-205	200	675	2037-20-P-115
2	6"-WP-BA2-20501	SLUG CATCHER TO PRODUCED WATER PUMP P-2051A	M-2001	P-2051A	122	75-205	200	675	0220-PB-2101
3	6"-WP-BA2-20502	SLUG CATCHER TO PRODUCED WATER PUMP P-2051B	6"-WP-BA2-20501	P-2051B	122	75-205	200	675	0220-PB-2101
4	4"-WP-BA2-20503	PRODUCED WATER PUMP P-2051A/B DISCHARGE	PRODUCED WATER PUMP P-2051A/B	6"-WP-DA3-20008	122	150	200	675	0220-PB-2101
5	4"-WP-BA2-20504	PRODUCED WATER PUMP P-2051B DISCHARGE	P-2051B	4"-WP-BA2-20503	122	150	200	675	0220-PB-2101
6	3"-WP-BA2-20505	PRODUCED WATER PUMP RECYCLE LINE	4"-WP-BA2-20503	20 PDV 501	122	150	200	675	0220-PB-2101
7	3"-WP-BA2-20506	PRODUCED WATER PUMP RECYCLE LINE	20 PDV 501	6"-WP-BA2-20501	122	70-150	200	675	0220-PB-2101
8	6"-WP-BA2-20601	SLUG CATHCER M-2002	M-2002	P-2052A/B	122	75-205	200	675	4988-PB-005
9	6"-WP-BA2-20601	SLUG CATCHER M-2002 TO PRODUCED WATER PUMP P-2051A	M-2002	P-2052A	122	75-205	200	675	0220-PB-2102
10	6"-WP-BA2-20602	SLUG CATCHER M-2002 TO PRODUCED WATER PUMP P-2051B	M-2002	P-2052B	122	75-205	200	675	0220-PB-2102
11	4"-WP-BA2-20603	PRODUCED WATER PUMP P-2052A/B DISCHARGE	P-2052A/B	M-2002	122	150	200	675	0220-PB-2102
12	4"-WP-BA2-20604	PRODUCED WATER PUMP P-2052B DISCHARGE	PUMP P-2052B	4"-WP-BA2-20603	122	150	200	675	0220-PB-2102
13	3"-WP-BA2-20605	PRODUCED WATER PUMP RECYCLE LINE	4"-WP-BA2-20603	20 PDV 601	122	150	200	675	0220-PB-2102
14	3"-WP-BA2-20606	PRODUCED WATER PUMP RECYCLE LINE	20 PDV 601	6"-WP-BA2-20601	122	70-150	200	675	0220-PB-2102

PROCUREMENT (SUPPLY), CONSTRUCTION, INSTALLATION/ERECTION, PRE-COMMISSIONING, & COMMISSIONING ASSISTANCE FOR NEW CENTRIFUGAL COMPRESSORS AND MODIFICATION WORKS OF EXISTING TURBO COMPRESSOR TRAINS FOR QADIRPUR COMPRESSION PROJECT

TENDER ENQUIRY NO. PROC-FC/CB/PROJ/QP-4369/2019

POST-BID CLARIFICATION No. OGDCL-QP-4369-011



Sr. No.	Bidder Query	OGDCL/ENAR Response (28-Oct-2019)
1	Any Fiberglass reinforced pipe will be used as mentioned in notes of BOQ-M1A PS-201A.?	No there is no requirement of Fiber glass reinforcement pipes in this Project. Bidder to ignore this note.
2	Brand New definition as mentioned in scope of Supply. Our QC understand it may be manufactured as per latest codes and is acceptable visually	Brand new material means no used material shall be procured by Contractor which is under the supply of contractor.
3	Gaskets and Blinds required for reinstatements will be provided by OGDCL? Please confirm	All blinds and gaskets are already included in the respective BOQs.
4	With reference of BOQ M2A-PS-301A, Dia inch calculation for Welding joints of Socket and Weldolet will be considered as of pipe dia. DEL suggest to consider it double or in linear inch.	Pipe size shall be considered for socket and weldolet joints.
5	With Reference of BOQ-M2A-PS-302A//BOQ-M2B-PS-305B/307B, confirm the location and Circuit for Valves Installation?	Bidder is required to review the piping layouts as already attached in the Tender document.
6	Any AVL (Aproved Vendor List) for suply of Piping items and Pumps?	Vendor of the item/equipment shall have good track record of manufacturing items and have relevant API/ISO certification wherever applicable.
7	Required thickness for PWHT is 19mm as per BOQ-M2A-PS-301A, while as per ASME B31.3 it is 32mm to 38. Please confirm	Kindly adhere with the Tender requirement.
8	With Reference of BOQ-M2A-PS-302A/BOQ-M2B-PS-305B, Pressure testing means full circuit test or only valve testing before installation?	Under this BOQ valve testing is required.
9	With Reference of BOQ-M2A-PS-303A/BOQ-M2B-306B, Structure joints are welded or Bolted. Please provide drawings for clear understanding	We confirm that all the structural joints shall be welded. Drawings will be provided to the succesful bidder.
10	With Reference of steel structure BOQ-M2A-PS-303A/BOQ-M2B-306B, for Detailed BOQ Drawings are required.	Drawings will be shared with the successful bidder. We have provided sufficient information and details for bidding.
11	With Reference of BOQ-M2A-PS-303A, any requirement of fireproofing on steel structure.	There is no requirement of Fire proofing in steel structure.
12	With Reference of BOQ-M2B-PS-301B, Struture and piping fabrication is scope of PC contractor, as per BOQ it covers only installation	All shiploose structure and piping shall be installed under this BOQ heading and accordingly bidder to include all such effort under the weight of installation of equipment based on his experience.
13	With Reference of BOQ-M2B-PS-302B, ladder fabrication is scope of PC contractor?	Confirmed.

PROCUREMENT (SUPPLY), CONSTRUCTION, INSTALLATION/ERECTION, PRE-COMMISSIONING, & COMMISSIONING ASSISTANCE FOR NEW CENTRIFUGAL COMPRESSORS AND MODIFICATION WORKS OF EXISTING TURBO COMPRESSOR TRAINS FOR QADIRPUR COMPRESSION PROJECT

TENDER ENQUIRY NO. PROC-FC/CB/PROJ/QP-4369/2019

POST-BID CLARIFICATION No. OGDCL-QP-4369-011



Sr. No.	Bidder Query	OGDCL/ENAR Response (28-Oct-2019)
14	With Reference of BOQ-M2B-PS-304B, Line List Required to inquire fireproofing and pressure/temperature values.	Line list is attached.
15	With Reference of BOQ-M2B-PS-307B, for detailed BOQ,size and type of PSVs and strainers required	The PSVs and strainer sizes are not available at this stage. Bidder to quote the relevant BOQ based on his experience considering the relevant pipe sizes.
16	With Reference of BOQ-M2B-PS-309B, Location for the dispose of chemical after chemical cleaning of piping.	The location will be directed by OGDCL during execution of the Project.
17	With Reference of BOQ-M2B-PS-309B,please provide drawings with P&ID for clear understanding	Bidder to quote considering BOQ provided unit and quantities based on his experience.
18	With Reference of BOQ-M2B-PS-311B, please confirm the Thickness of Grout for grouting	It will be mentioned on IFC Drawings. Bidder is required to quote as per BOQ provided unit and quantities.
19	With Reference of BOQ-M2B-PS-312B, Type of Cladding is mentioned Aluminium, but in Specification 0200-PA-2003 (claus 3.20) cladding material is mentined as TP 304. Please confirm	Kindly follow the requirement mentioned in the specification.
20	Please confirmed with reference of BOQ - M2B - PS-310B, location of underground piping considering the level & route of excavation for piping laying.	Level will be in the range of 1.0meter to 1.5 meter and routing will be provided to succesfull bidder.
21	With Reference of BOQ-M2C Dismantling procedure & works shall be performed as per Specification for Dismantling works (0220-GS-9550)-Specification Required	This is a typo error. Please refer to clause # 2.5 of Scope of Work regarding dismantling works.