

Item	Description	Unit	Quantity
1	SPM TWS 600 4-1/2 " , stroke 6" Triplex pump spare parts as bellow in sub item 1.1 thru 1.24 for (pump S/N:F0308-6157 , G0408-3914 & pump S/N:F0408-6163 , G0408-3915)	set	1
1.1	Valve inserts	NOS	200
1.2	Valves with inserts	NOS	40
1.3	Valve seats with seal rings	NOS	40
1.4	Valve springs	NOS	24
1.5	Packing header rings	NOS	24
1.6	Packing pressure rings	NOS	24
1.7	Packing wiper rings	NOS	24
1.8	Packing ring spacers	NOS	12
1.9	Brass female adapter rings	NOS	12
1.10	Brass flat adapter rings	NOS	12
1.11	Brass packing lantern rings	NOS	12
1.12	Stuffing box seal rings	NOS	24
1.13	Suction/discharge cover seals	NOS	24
1.14	Suction manifold seals	NOS	12
1.15	Pinion shaft oil seal	NOS	2
1.16	Crank case breather	NOS	2
1.17	Suction cover	NOS	6
1.18	Suction valve stop	NOS	12
1.19	Suction cover retainer nut	NOS	6
1.20	Packing nut w/wiper groove	NOS	6
1.21	Discharge cover	NOS	3
1.22	Discharge cover Retainer nut	NOS	3
1.23	Discharge cover w/ 2" 1502 F	NOS	2
1.24	Plunger	NOS	3
2	Centrifugal pump spare parts as bellow in sub item 2.1 thru 2.39 for National Oilwell Varco Mission Magnum Sandmaster pump part No.640203598IT60 Impeller Descriptions 19206-60-30 size 4x3x13 instld. IMP. 10 fluid end material HI serial number M88113 pump type SM seal type M/S assembler MCA	set	1
2.1	Casing	NOS	1
2.2	Gasket, casing	NOS	2
2.3	Nut , Casing	NOS	12
2.4	Stud , Casing	NOS	12
2.5	Plug , Casing drain	NOS	2
2.6	Plug , flush Line	NOS	2
2.7	Impeller	NOS	2
2.8	Seal , impeller	NOS	2
2.9	Washer , impeller	NOS	4
2.10	Bolt , impeller lock	NOS	4
2.11	Stuffing box , mechanical seal	NOS	2
2.12	Bolt , stuffing box	NOS	2
2.13	Gland Assy. Packing	NOS	4
2.14	Seal , mechanical	NOS	12
2.15	Bolt Assy. Gland	NOS	4
2.16	Shaft	NOS	1
2.17	Sleeve , Shaft (M.S Pump)	NOS	12
2.18	Key , Shaft	NOS	2
2.19	Seal , Shaft Sleeve	NOS	12

2.20	Deflector Assembly	NOS	2
2.21	Cover , Inboard Bearing	NOS	2
2.22	Gasket , I.B. Brg. Cover	NOS	2
2.23	Oil Seal , I.B. Brg. Cover	NOS	2
2.24	Bolt , I.B. Brg. Cover	NOS	4
2.25	Nut , I.B. Brg. Cover	NOS	4
2.26	Exclusion Seal , I.B. Brg. Cvr	NOS	2
2.27	Grease fitting	NOS	1
2.28	Bearing inboard	NOS	1
2.29	Housing , O.B. Bearing	NOS	1
2.30	Seal, O.B. Brg Housing	NOS	2
2.31	Bolts , O.B. Brg Housing	NOS	8
2.32	Nut , O.B. Brg Housing Jam	NOS	4
2.33	Cover , O.B. Bearing	NOS	1
2.34	O –ring O.B. Bearing cover	NOS	2
2.35	Oil seal O.B. Brg. Cover	NOS	2
2.36	Bolt O.B. Brg. Cover	NOS	4
2.37	Bearing O.B.	NOS	2
2.38	Lock washer O.B. Bearing	NOS	2
2.39	Lock nut , O.B. Bearing	NOS	2
3	Centrifugal pump spare parts as bellow in sub item 3.1 thru 3.39, for National Oilwell Varco Mission Magnum Sandmaster pump part No.640203300IT70 Impeller Descriptions 19224-70-30 size 5x4x14 instld. IMP. 11 fluid end material HI serial No.M87393 &M87394 pump type SM seal type M/S assembler MCA	set	1
3.1	Casing	NOS	1
3.2	Gasket, casing	NOS	4
3.3	Nut , Casing	NOS	12
3.4	Stud , Casing	NOS	12
3.5	Plug , Casing drain	NOS	2
3.6	Plug , flush Line	NOS	2
3.7	Impeller	NOS	2
3.8	Seal , impeller	NOS	4
3.9	Washer , impeller	NOS	4
3.10	Bolt , impeller lock	NOS	4
3.11	Stuffing box , mechanical seal	NOS	2
3.12	Bolt , stuffing box	NOS	8
3.13	Gland Assy. Packing	NOS	4
3.14	Seal , mechanical	NOS	36
3.15	Bolt Assy. Gland	NOS	4
3.16	Shaft	NOS	1
3.17	Sleeve , Shaft (M.S Pump)	NOS	24
3.18	Key , Shaft	NOS	2
3.19	Seal , Shaft Sleeve	NOS	36
3.20	Deflector Assembly	NOS	2
3.21	Cover , Inboard Bearing	NOS	2
3.22	Gasket , I.B. Brg. Cover	NOS	2
3.23	Oil Seal , I.B. Brg. Cover	NOS	2
3.24	Bolt , I.B. Brg. Cover	NOS	4
3.25	Nut , I.B. Brg. Cover	NOS	4
3.26	Exclusion Seal , I.B. Brg. Cvr	NOS	2
3.27	Grease fitting	NOS	2
3.28	Bearing inboard	NOS	1
3.29	Housing , O.B. Bearing	NOS	2
3.30	Seal, O.B. Brg Housing	NOS	2

3.31	Bolts , O.B. Brg Housing	NOS	8
3.32	Nut , O.B. Brg Housing Jam	NOS	4
3.33	Cover , O.B. Bearing	NOS	2
3.34	O –ring O.B. Bearing cover	NOS	2
3.35	Oil seal O.B. Brg. Cover	NOS	2
3.36	Bolt O.B. Brg. Cover	NOS	4
3.37	Bearing O.B.	NOS	2
3.38	Lock washer O.B. Bearing	NOS	2
3.39	Lock nut , O.B. Bearing	NOS	2
4	Centrifugal pump spare parts as bellow in sub item 4.1 thru 4.39, for National Oilwell Varco Mission Magnum Sandmaster pump part No.640203284IT70 Impeller Descriptions 19121-70-30 size 6x5x11 instld. IMP. 11 fluid end material HI serial No.M106179 &M106176 pump type SM seal type PKD assembler MCA	set	1
4.1	Casing	NOS	1
4.2	Gasket, casing	NOS	2
4.3	Nut , Casing	NOS	12
4.4	Stud , Casing	NOS	12
4.5	Plug , Casing drain	NOS	1
4.6	Plug , flush Line	NOS	1
4.7	Impeller	NOS	1
4.8	Seal , impeller	NOS	2
4.9	Washer , impeller	NOS	4
4.10	Bolt , impeller lock	NOS	2
4.11	Stuffing box , packed	NOS	1
4.12	Bolt , stuffing box	NOS	2
4.13	Grease fitting	NOS	1
4.14	Gland Assy. Packing	NOS	4
4.15	Packing shaft	NOS	12
4.16	Bolt Assy. Gland	NOS	4
4.17	Shaft	NOS	1
4.18	Sleeve , Shaft (pack Pump)	NOS	6
4.19	Key , Shaft	NOS	2
4.20	Seal , Shaft Sleeve	NOS	6
4.21	Deflector Assembly	NOS	1
4.22	Cover , Inboard Bearing	NOS	1
4.23	Gasket , I.B. Brg. Cover	NOS	2
4.24	Oil Seal , I.B. Brg. Cover	NOS	2
4.25	Bolt , I.B. Brg. Cover	NOS	4
4.26	Nut , I.B. Brg. Cover	NOS	4
4.27	Exclusion Seal , I.B. Brg. Cvr	NOS	2
4.28	Grease fitting	NOS	1
4.29	Bearing inboard	NOS	1
4.30	Housing , O.B. Bearing	NOS	1
4.31	Seal, O.B. Brg Housing	NOS	1
4.32	Nut , O.B. Brg Housing Jam	NOS	2
4.33	Cover , O.B. Bearing	NOS	1
4.34	O –ring O.B. Bearing cover	NOS	2
4.35	Oil seal O.B. Brg. Cover	NOS	2
4.36	Bolt O.B. Brg. Cover	NOS	4
4.37	Bearing O.B.	NOS	2
4.38	Lock washer O.B. Bearing	NOS	2
4.39	Lock nut , O.B. Bearing	NOS	2

5	Gardener Denver compressors spare parts as bellow in sub item 5.1 thru 5.7 , for WVMACA compressors model , water cooled , serial numbers Q017581 , Q016521 & Q016520 , pore & stroke 7 & 7x5 , rated discharge pressure 50 psi Max , rated speed RPM 1050 Max.	set	1
5.1	CRANKCASE ASSEMBLY as bellow in sub items	set	1
5.1.1	CRANKCASE P/N 200WBG013	Nos	1
5.1.2	DOWELL PIN P/N 62M48	Nos	2
5.1.3	PLUG P/N 64AC2	Nos	2
5.1.4	PLUG P/N 64A6	Nos	3
5.1.5	TUBE P/N 85A925	Nos	1
5.1.6	OIL FILL BODY P/N 1WBO32	Nos	1
5.1.7	OIL FILLER PLUG P/N WBO152	Nos	3
5.1.8	PLATE - INSPECTION P/N WCG9	Nos	1
5.1.9	GASKET P/N 25C1850	Nos	3
5.1.10	SCREW P/N 75A130	Nos	15
5.1.11	INSPECTION PLATE P/N 200WLG052	Nos	1
5.1.12	GASKET P/N 25C457	Nos	3
5.1.13	SCREW P/N 655ED080	Nos	4
5.1.14	SCREW P/N 75B41	Nos	3
5.1.15	GASKET P/N 25C2150	Nos	3
5.1.16	SCREW P/N 655EC020	Nos	4
5.1.17	OIL LEVEL ROD P/N 200WBO491	Nos	1
5.1.18	CRANKCASE – BREATHER BODY P/N 3WBO32	Nos	1
5.1.19	GASKET P/N 25C543	Nos	3
5.1.20	SCREW P/N 655EF050	Nos	2
5.1.21	CRANKCASE BREATHER VALVE P/N 201WBO307	Nos	3
5.1.22	GASKET P/N 25BC174	Nos	3
5.1.23	CAP P/N WBO185	Nos	2
5.1.24	WIRE SEAL P/N 97C2	Nos	3
5.2	CRANKSHAFT ASSEMBLY	Assy.	1
5.3	OIL PUMP ASSEMBLY	Assy.	1
5.4	OIL RELIEF VALVE ASSEMBLY	Assy.	1
5.5	7" CYLINDER ASSEMBLY as bellow in sub items	set	1
5.5.1	CYLINDER P/N 2WLH2	Nos	3
5.5.2	GASKET P/N 25C492	Nos	6
5.5.3	SCREW P/N 655EG080	Nos	24
5.5.4	WASHER P/N 95B20	Nos	24
5.5.5	SCREW P/N 655EF270	Nos	6
5.5.6	GASKET P/N 204WLG715	Nos	6
5.5.7	CLYNDER HEAD (LEFT & RIGHT CYLINDER) P/N WAG7	Nos	2
5.5.8	GASKET P/N WAG68	Nos	2
5.5.9	SCREW P/N 230WLN715	Nos	3
5.5.10	SCREW P/N 655EE040	Nos	6
5.5.11	FLANGE P/N 19AUX27	Nos	4
5.5.12	GASKET P/N 228WLN715	Nos	4
5.5.13	SCREW P/N 75A130	Nos	8
5.5.14	SCREW P/N 75K79	Nos	36
5.5.15	PISTON P/N 5WAG15	Nos	6
5.5.16	PISTON PIN P/N 201WBO505	Nos	6
5.5.17	COVER P/N 4WAG68	Nos	1
5.5.18	CLYNDER HEAD (CENTER CYLINDER) P/N 1WAG7	Nos	1
5.5.19	PISTON RING ASSEMBLY P/N 65AA24	Nos	24
5.5.20	OIL CONTROL RING P/N 65AM365	Nos	12
5.5.21	CONNECTING ROD P/N 201WBO003	Nos	6
5.5.22	CONNECTING BOLT ASSEMBLY 1WAG254A	Nos	12
5.5.23	SCREW P/N 75E1	Nos	6
5.5.24	WIRE P/N 97A29	Nos	6

5.5.25	BEARING HALF P/N 200WBO174	Nos	12
5.5.26	NUT P/N 50M10	Nos	12
5.6	SUCTION UNLOADING VALVE ASSEMBLY as bellow in sub items	set	1
5.6.1	SUCTION VALVE ASSEMBLY P/N 203VEH306A	Nos	12
5.6.2	SPRING P/N 78A51	Nos	12
5.6.3	LOWER UNLOADING PLUNGER P/N 1WAG217	Nos	12
5.6.4	VALVE COVER P/N 1WAG185	Nos	12
5.6.5	GASKET P/N 25B19	Nos	12
5.6.6	SCREW P/N 75A130	Nos	36
5.6.7	GASKET 207WLN715	Nos	12
5.6.8	SPRING P/N 78A435	Nos	12
5.6.9	SCREW P/N 655EF070	Nos	24
5.6.10	UNLOADER COVER – LEFT & RIGHT CYLINDERS P/N WCE968	Nos	10
5.6.11	UNLOADER COVER – CENTER CYLINDER P/N 200WRN2016	Nos	2
5.7	DISCHARGE VALVE ASSEMBLY as bellow in sub items	set	1
5.7.1	DISCHARGE VALVE ASSEMBLY P/N 202VEH307A	Nos	12
5.7.2	CLAMP P/N WAG194	Nos	6
5.7.3	SET SCREW P/N 76GG7	Nos	12
5.7.4	GASKET P/N 25F13	Nos	12
5.7.5	ACORN NUT P/N 50Q17	Nos	12
5.7.6	COVER P/N 1WAG11	Nos	6
5.7.7	GASKET P/N 225WLN715	Nos	12
6	Coolant pump CA96 for Cardner Denver compressor model WVMACA	Nos	1
7	Recommended lubricating oil (Aeon 500 oil or equivalent) for Cardner Denver compressor model WVMACA	LTR	400
8	Air inlet filter , Solberg 274P	Nos	18
9	Oil filter Cardner Denver 26A43	Nos	10
10	Gardener Denver compressors spare parts as bellow in sub item 10 thru 10.5 , for APOGAA compressor model , serial number DA06986 , pore & stroke 7-7/8 & 7-7/8 x 4-1/2 , rated discharge pressure 60 psi Max, Max vacuum IN-HG gage 28"HG (Max) , rated speed RPM COM-1072 VAC-937 .	set	1
10.1	Crankcase assembly	Kit	1
10.2	Crankshaft assembly	Kit	1
10.3	Cylinder assembly	Kit	2
10.4	Suction unloading valve assembly	Kit	1
10.5	Discharge valve assembly	Kit	1
11	Power take- off, manufacturer TWIN DISC INCORPORATED, BOM No. SP211P301 , Model SP211HP3 adapted to DEUTZ engine BF4M2012 to provide the movement to the Cardner Denver compressor model WVMACA via a belts	Assy.	1
12	Power take- off, manufacturer TWIN DISC INCORPORATED, Assembly No. TR4345100 , clutch size 11-S , clutch adjustment 141 to 107 LB-FT 191 to 144 adapted to CAT C4.4 engine to provide the movement to the Cardner Denver compressor model APOGAA via a belts	Assy.	1
13	Coolant temperature gauge ,100-250 °F, model PVA 20-B-250-A P/N:78700094 FW Murphy Tulsa USA	NOS	4
14	Hydraulic pressure transmitter ,M/D totco E17-152-LS	NOS	4
15	Diaphragm for Hydraulic pressure transmitter ,M/D totco E17-152-LS	NOS	20
16	Single pointer pressure gauge, M/D totco, 6" liquid filled dual reading, shut down limit used with Hydraulic pressure transmitter M/D totco E17-152-LS, 15000 psi capacity. complete with stander hose and fluid	NOS	2
17	Hand throttle , TELEFLEX HAG 6 , Part number 311421 used to control CATERPILLAR diesel engine (C15)	NOS	6
18	Total & Rate display , CONTREC model 202D	NOS	2
19	Power view display , p/n 78-70-0244 , mdl pv101-A , FW Murphy Tulsa USA	NOS	2
20	Cement metering valve , manufacturer TEM NOV , patent No. 5571281 complete with rotary actuator , position feedback pot and vacuum breaker to use in double pump recirculating cementer model CPT-800D , project No.	Nos	2

	CPT002014 Mfg by Tulsa equipment manufacturer		
21	Transmission lubricant fluid (petro – Canada ATF D3M, transynd or Dexron-III) to use in 4700 OFS Allison transmissions.	LTR	450
	<u>GENERAL REMARKS:-</u> 1. The supplier should presents a confirmation letters from the manufacturer companies to confirm the offer materials is a suitable spares with serials numbers and models numbers of the mentioned equipments in this tender 2. All equipments and spare parts should be new brand 3. The technical offer should be include the type , model , specifications and part number for each item 4. The supplier should confirm to provide us with catalogs(In English language) for the required materials after awarding the tender 5. The origin of the equipments should be USA, CANADA, MEXICO, JAPAN, KORIA, INDIA, CHINA and EUROPEAN UNION 6. The third party inspection CIRTIFICATE should CIRTIFY ALL REQUIRED MATERIALS WILL BE NEW (NEVER USED) and according to the technical specifications in the technical offer 7. All certificates of origin should be stamp by chamber of commerce and authorized from Iraqi consulate in that country 8. CIP maysan oil company		

The standard Evaluation Requested

Item	Description	Percentage
1	Technical Specification	60%
2	The Implementation Period of the Contract	30%
3	Origin of Materials	10%
	Total Percentage	100%

