



Jindal Aluminium Limited

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CIN : U27203KA 1970PLC002806

**ANNEXURE - I FOR PURCHASE ORDER NO. PO220900602 DATED - 08.09.2022**

SL NO	DESCRIPTION	UOM	QTY	RATES	AMOUNT
A	Oil Tank Accessories : - ( Qty and other details as per attached annexure ) a. Existing oil tank will be used as it is. b. Air Breather (Qty: 03 Nos) will be supplied. c. Increment in height of existing oil tank to be done by JAL team. d. Piping will be done based on the position of new tank top plate. (TTP) e. The tank cutout closure plates will be supplied by PSPL. f. Necessary piping, fittings, hoses will be provided for the above unit	Set	1	560000	560000
B	Pump motor assembly : - ( Detailed scope, quantity as per attached annexure ) a. Electric motor (Siemens / ABB make) of 110 kW (150 hp) each, Qty: 04 Nos (Jindal Scope) b. Main pump (Rexroth Make) with Proportional control (250 cc/rev @ 990 rpm) each, Qty: 04 Nos (Jindal Scope) c. Pump-motor Coupling and bell housing, Qty: 04 Nos (Jindal Scope) d. Pump-motor Skid for mounting the above Pump Motor assembly (Jindal Scope) e. Inlet and outlet pipes & flexible hoses along with ball valves will be in PSPL scope. f. Suitable pressure line filter will be provided for above main pumps which is in PSPL scope.	Set	1	1200000	1200000
C	Offline filtration cum cooling unit :- ( Detailed scope, quantity as per attached annexure ) a. Electric motor (Siemens make) of 30 kW (40 hp), Qty: 01 No b. Fixed delivery pump (Veljan make) of about 800-1000 l/min, Qty: 01 No c. Pump safety block, Qty : 01 No d. Offline Filter (Hydac make) not included in price - Scope of supply will be decided e. Plate type Heat Exchanger (Varalka make), Qty: 01 No f. Pump motor assembly will be mounted on the existing tank. g. Necessary piping, fittings, hoses, etc. will be provided for the above unit	Set	1	950000	950000
D	Pump motor assembly for pilot pressure, container sealing, loader or Auxiliry unit : - ( Detailed scope, quantity as per attached annexure ) A. Pilot pressure pump motor unit a. Electric motor (Siemens) of 30 kW (40 hp), Qty: 01 No b. Variable delivery pump (Rexroth / Oilgear Make) (80 lpm @ 150 bar), Qty: 01 No B. Container Sealing pump motor unit a. Electric motor (Siemens) of 18.5 kW (25 hp), Qty: 01 No b. Variable pump (Rexroth / Oilgear Make) (40 lpm @ 240 bar), Qty: 01 No C. Loader / Auxiliary pump motor unit c. Electric motor (Siemens) of 30 kW (40 hp), Qty: 01 No d. Fixed pump (Rexroth / Veljan / Oilgear Make) (160 lpm @ 90 bar), Qty: 01 No The above Pump-motor assemblies will be mounted on the Fabricated Skid. Separate ball valve with limit switch will be provided for each pump along with necessary piping, fittings, hoses, etc.	LS	1	1150000	1150000

<p>New Manifold blocks for : - ( Detailed scope, quantity as per attached annexure )</p> <p>a. Four Pump Diverter block</p> <p>b. Pump safety blocks for Pilot Pressure, Container sealing and Loader pumps</p> <p>c. Main Ram Control Block</p> <p>d. Container Sealing, Butt Shear, Die Slide Block</p> <p>e. Billet Loader block (Up/down and forward and / reverse movement only)</p> <p>f. Accumulator with safety valve block for Pilot pressure pump.</p> <p>Manifold block assembly, consists of -</p> <p>a. Manifold block (Material C-45).</p> <p>b. Cartridge valves with covers (PSPL / Polyhydron make)</p> <p>c. Solenoid operated DC valve (Rexroth make)</p> <p>e. Solenoid voltage will be 24V DC.</p> <p>f. Fittings and couplings (Hyloc make)</p> <p>g. 1 set of spare seal kit for each valve will be supplied along with manifold blocks.</p> <p>h. 1 set of spare cartridge valve and its covers for manifold block will be supplied along with manifold blocks.</p>	Set	1	3200000	3200000
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<p>Hydraulic cylinders and its accessories, Prefill Valve and control block and Complete Electrical Control Panel with MCC, PLC and Operator Desk in JAL scope. All the Electrical control panels, Position sensor, MCC Panel, PLC Panel with PLC programming, its wiring and proper functioning will be done by JAL team.</p> <p>Jindal scope of supply,</p> <p>1) Hydraulic oil and Oil Tank with tank accessories like level indicator, switch, temp switch etc.</p> <p>2) Hydraulic cylinders and its piping, fittings, flanges etc.</p> <p>3) Prefill Valve with control block and its piping, fittings, flanges etc.</p> <p>4) Electrical Control Panel, MCC panel, PLC and its programming</p> <p>5) Electrical wiring for complete system</p> <p>6) Supervision of Installation &amp; Commissioning activity by PSPL (1 Hydraulic + 1 Welder)</p> <p>7) Installation and commissioning</p> <p>8) Power wiring and wiring from Panel to the source</p> <p>9) Site commissioning spares</p> <p>10) Any other item or sale condition, which is not specifically mentioned in this quote</p>				
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Packing charges	LS	1	50000	50000
GRAND TOTAL ( Rupees Seventy One Lacks Ten Thousand Only )				71,10,000

<b>TERMS &amp; CONDITIONS : -</b>				
PRICE BASIS : EX - WORKS - Belgaum ( Jindal will arrange their own transport once material is packed and ready for dispatch )				
PAYMENT : 50% with 100% tax against readiness of material / inspection at PSPL by Jindal. 40% ( Basic ) payment within 7 days from the date of receipt of material at JAL ( Bhiwadi ), 10% After successful installation & commissioning against submission of PBG basic value valid for one year from the date of commissioning.				
DELIVERY : All Manifolds and accessories within 4 to 6 weeks from the date of receipt of Purchase order, bal items in 14 to 16 weeks.				
PENALTY : 0.5% per week for delay for delivery beyond 18 weeks from the date of receipt of order				
WARRANTY : One year from the date of commissioning or 18 months from the date of receipt of material which ever is earlier				

<p>1. Required cranes, hydra and lifting equipments are in JAL scope</p> <p>2. You will depute one welder and one supervisor in advance for making arrangements of piping and other accessories well in advance.</p> <p>3. Scope or work, inclusions and exelusions as per the attached annexure</p> <p>4. Set of spares will be supplier along with above as per indicated in the attached annexure</p> <p>5. All the required electcial PLC panels with programme, MCC panel, motors for Main Pumps, Axial Piston pumps, proportunal valves, cards, pipes for manifold to cylinders, hydraulic cylinders and its accessories, required wirings, Hydraulic oil, are in JAL scope.</p> <p>6) Required spares and other accessories apart from the bill of materials are extra and in JAL scope.</p> <p>7) ESI / PF - JAL ACCOUNT, you need to provide necessary documents of your engineers to our personal department for records purpose.</p> <p>8) Lodging and boarding during the commissioning will be provided by JAL free of cost in staff catagory accomodations.</p> <p>9) All PPE safety norms should be followed during the working on site</p> <p>10. Inspection : - Jindal will depute our representative for inspection of equipment at PSPL plant before dispatch. In case of Third Party Inspection, the expenses will also be born by Jindal.</p>
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For : Jindal Aluminium Limited.,

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Item No.	Qty.	Description	Scope	Remarks / Make
06.06	1	O ring set for valves	PSPL	spares Vet on O Rings
<b>07.00</b>	1	<b>4 Pump Divertor Manifold Block Assembly</b>	PSPL	
07.01	12	Cartridge Valves with covers	PSPL	Polyhydron Make
07.02	12	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
07.03	4	Pressure Transducer	PSPL	
07.04	1	4 Pump Divertor Manifold Block	PSPL	
07.05	1	Stand for Divertor Manifold	PSPL	
07.06	1	Pipes, Fittings, Hoses, Flanges and Minimes couplings	PSPL	
07.07	1	O ring set for valves	PSPL	spares Vet on O Rings
07.08	1	Spare cartridge valve with cover	PSPL	spares Polyhdron Make
<b>08.00</b>	1	<b>Main Ram/Side Cylinder Control Manifold Assembly</b>	PSPL	
08.01	6	Cartridge Valves with covers	PSPL	Polyhydron Make
08.02	6	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
08.03	2	Pressure Transducer	PSPL	
08.04	1	Main Ram & Side Cylinder Control Manifold Block	PSPL	
08.05	1	Stand for Divertor Manifold	PSPL	
08.06	1	Pipes from manifold to cylinders	JAL	Existing
08.07	1	Fittings, Hoses, Flanges and Minimes couplings	PSPL	
08.08	1	O ring set for valves	PSPL	spares Vet on O Rings
08.09	1	Spare cartridge valve with cover	PSPL	Polyhydron Make
<b>09.00</b>	1	<b>Container Cylinder &amp; Shear cylinder Control Manifold Assembly</b>	PSPL	
09.01	9	Cartridge Valves with covers	PSPL	Polyhydron Make
09.02	9	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
09.03	1	Pressure Transducer	PSPL	
09.04	2	Check Valve	PSPL	Hyloc Make
09.05	1	Main Ram & Side Cylinder Control Manifold Block	PSPL	
09.06	1	Stand for Manifold	PSPL	
09.07	1	Pipes from manifold to cylinders	JAL	Existing
09.08	1	Fittings, Hoses, Flanges and Minimes couplings	PSPL	
09.09	1	O ring set for valves	PSPL	spares Vet on O Rings
09.10	1	Spare cartridge valve with cover	PSPL	spares Polyhydron Make
<b>10.00</b>	1	<b>Die slide Manifold Assembly</b>	PSPL	
10.01	2	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
10.02	1	Cartridge Valve with cover & check valve	PSPL	Polyhydron Make
10.03	1	Die slide Cylinder Control Manifold Block	PSPL	
10.04	1	Pipes from manifold to cylinders	JAL	Existing
10.05	1	Fittings, Hoses, Flanges and Minimes couplings	PSPL	
10.06	1	O ring set for valves	PSPL	spares Vet on O Rings
10.07	1	Stand for Manifold	PSPL	
<b>11.00</b>	1	<b>Billet Loader Manifold Assembly</b>	PSPL	
11.01	1	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
11.02	2	Sol optd DC valves (24V DC)	PSPL	Rexroth Make
11.03	3	Throttle cum check valve	PSPL	Polyhydron Make


**TECHNICAL ANNEXURE FOR PURCHASE ORDER NO. PO220900 DT - 08.09 .2022**

Item No.	Qty.	Description	Scope	Remarks / Make
<b>01.00</b>	<b>1</b>	<b>Oil Tank Assembly</b>		
01.01	1	Oil Tank 8000 ltrs	JAL	Existing
01.02	1	Tank Top plate	JAL	
01.03	1	Tank Cutout closure Plates	PSPL	Fabricated
01.04	3	Air Breather	PSPL	Mahale
01.05	1	Oil Level Indicator	JAL	
01.06	1	Oil Level Switch (Float Switch)	JAL	
01.07	1	Temperature Switch	JAL	
01.08	1	Ball Valve with limit switch & Expansion bellow	JAL	
01.09	1	Pipes, Fittings, Hoses, Flanges	PSPL	Reputed brand
<b>02.00</b>	<b>4</b>	<b>Main Pump Motor Assembly</b>		
02.01	4	Electric Motor (150 HP)	JAL	
02.02	4	Axial Piston Pumps (250 cc/rev,1000 rpm)	JAL	
02.03	4	Pump motor coupling & Bell Housing Assembly	JAL	
02.04	4	Pressure switch	PSPL	Reputed brand
02.05	4	Rubber Expansion joint	PSPL	
02.06	4	Low pressure filter	PSPL	Hydac make
02.07	4	Ball Valve with limit switch	PSPL	Reputed brand
02.08	4	Delivery, Case Drain, Lubrication hoses & Flanges	PSPL	
02.09	4	Check Valve & Shut off valves	PSPL	Reputed brand
02.10	1	Pipes with header	PSPL	
02.11	4	Pump Motor Skid	JAL	
02.12	1	Stand for Mounting Junc. Box	JAL	
<b>04.00</b>	<b>1</b>	<b>Offline Cooling cum Filtration unit</b>		
04.01	1	Electric Motor (40 HP)	PSPL	Siemens Make
04.02	1	Fixed delivery Pump (1000 lpm)	PSPL	Veljan Make
04.03	1	Pump motor coupling & Bell Housing Assembly	PSPL	
04.04	1	Pump safety block	PSPL	
04.05	1	Plate type Heat Exchanger	PSPL	Varalka Make
04.06	1	Offline Filter	To be decided	Hydac Make
04.07	1	Pipes, Fittings, Hoses, Flanges	PSPL	
04.08	1	Stand for Mounting Junc. Box	PSPL	
<b>05.00</b>	<b>1</b>	<b>Pump Motor Assemblies</b>	PSPL	
05.01	1	Electric Motor (40 HP)	PSPL	Pilot Siemens Make
05.02	1	Variable Delivery pump (80 L/min @ 150 bar)	PSPL	Pilot Rexroth Make
05.03	1	Bell Housing Assembly	PSPL	Pilot
05.04	1	Electric Motor (25 HP)	PSPL	Container Sealing Siemens Make
05.05	1	Variable Delivery pump (40 L/min @ 240 bar)	PSPL	Container Sealing Rexroth Make
05.06	1	Bell Housing Assembly	PSPL	Container Sealing
05.07	1	Electric Motor (40 HP)	PSPL	Loader Siemens Make
05.08	1	Fixed Delivery pump (160 L/min @ 90 bar)	PSPL	Loader Veljan Make
05.09	1	Bell Housing Assembly	PSPL	Loader
05.10	3	Ball Valve with limit switch	PSPL	
05.11	1	Skid for mounting above unit	PSPL	
05.11	1	Pipes, Fittings, Hoses, Flanges	PSPL	
<b>06.00</b>	<b>1</b>	<b>Pump Safety Manifold block assembly</b>	PSPL	
06.01	1	Pilot Pump Safety block	PSPL	
06.02	1	Container Sealing Pump Safety block	PSPL	
06.03	1	Loader Pump safety block	PSPL	
06.04	3	Pipes, Fittings, Hoses, Flanges and Minimes couplings	PSPL	
06.05	3	Stand for above blocks	PSPL	

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Item No.	Qty.	Description	Scope	Remarks / Make
11.04	1	Loader Cylinders Control Manifold Block	PSPL	
11.05	1	Pipes from manifold to cylinders	JAL	Existing
11.06	1	Fittings, Hoses, Flanges and Minimes couplings	PSPL	
11.07	1	O ring set for valves	PSPL	spares Vet on O Rings
11.08	1	Stand for Manifold	PSPL	
<b>12.00</b>	1	<b>Accumulator Block Assembly for pilot unit</b>	PSPL	
12.01	1	Bladder Type Accumulator with mounting stand	PSPL	Hydac Make
12.02	1	Accumulator Safety Block with pressure transducer	PSPL	
12.03	1	Pressure line filter	PSPL	Hydac Make
12.04	1	Pipes, Fittings, Hoses, Flanges and Minimes couplings	PSPL	
<b>13.00</b>	1	<b>Hydraulic cylinders and its accessories</b>	JAL	
13.01	1	Main Ram Pressing Cylinder (Ram 914 mm x Strk 1651 mm)	JAL	Existing
13.02	1	Side Cylinders (Bore 203 mm x Rod 114 mm x Strk 1651 mm)	JAL	Existing
13.03	1	Container Cylinder (Bore 254 mm x Rod 152 mm x Strk 1016 mm)	JAL	Existing
13.04	1	Die Slide Cylinder (Bore 127 mm x Rod 50 mm x Strk 1041 mm)	JAL	Existing
13.05	1	Shear Cylinder (Bore 152 mm x Rod 114 mm x Strk 685 mm)	JAL	Existing
13.06	1	Loader (Up/down) Cylinder (Bore 100 mm x Rod 63 mm x Strk 250 mm)	JAL	Existing
13.07	1	Loader (Forward/Reverse) Cylinder (Bore 63 mm x Rod 45 mm x Strk 1000 mm)	JAL	Existing
13.08	1	Accessories on cylinders and press structure like Limit switches, Pressure gauges, Position sensors etc	JAL	Existing
<b>14.00</b>	1	<b>Prefill Valve and Control Manifold Assembly</b>	JAL	
14.01	1	Prefill Valve	JAL	Existing
14.02	1	Prefill valve control Manifold Block	JAL	Existing
14.03	1	Accumulator and its safety block	JAL	Existing
14.04	1	Connection pipes flanges Fittings	JAL	Existing
<b>15.00</b>	1	<b>Electrical Control Panel with MCC, PLC and operator desk</b>	JAL	
15.01	1	Main MCC panel	JAL	
15.02	1	PLC panel and its programming	JAL	
15.03	1	Position Sensor and its mounting arrangement	JAL	
15.04	1	Electrical wires and its connections	JAL	



For : Jindal Aluminium Limited.,



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