**************************************		TOOLS			M
	PKG ·	- G(Mech Mining MC)			
SL. NO.	NAME OF THE ITEMS	UNITS	QUANTITY	REMARK	
1	Bench Type Drilling Machine	(a) drilling 40 mm; (b) face mill 100 mm; © end mill: 20mm; (d) tapping: 20mm mill	1 no		
2	Vice Working Table	4' x4'	1 no	ž.	
3	Surface plate (big),	size 2x2'	1 no]	
4	Bench Grinder	Wheel size: 125 mm; no, load speed: 2950 mm	1 no	9	
5	Portable Electric Drill Machine	Hole size : 5 mm to 25 mm; variable chuck	1 no		
6	Black Smith Hammer with handle	Alloy steel hammer head; harden and normalized; weight of head: 1.5 kg and 2 kg	1 no		
7	Sledge Hammer	Drop forged, hardened and tempered alloy steel hammer head : weight of hammer head : 3 kg	1 no		
8	Open hearth coal Fired Furnace	Size: 600 x 600 mm MS fabricated complete with water tank; coal tank air control valve, electrically operated motorized blower, ashtray, hopper with smoke outlet (hood); complete with fire brick lining; 8" diameter chimney with installation	1 no		
9	Pneumatic Power Hammer	Distance between Dies: 9"; Blows per minute: 240; Dia size: 2.375" x 4.75";	1 no	2 2	
10	Anvils with damping base	Weight: 200 kg (approx); hardy hole: 1": Pritchel hole: 7/8": Round horn: 12" Flat horn: 10"; Face: 6.5" x 16" ' Total Length: 38"; Height: 13"; Base dimension; 12" x 14"			
11	Steel Swage Block	*	1 no		
12	Working Table	Size : VA" x 7" x 3"	1 no	3	4
C. GENERAL MACHINERY SHOP OUTFIT					

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PKG-G

Length of Bed : 1370 mm; Width	
_	of l
bed : 235mm; Height of centre :	1
165mm; Admit between canters	l l
765mm; Hole through spindle :	
42mm; Swing over bed : 315mm	
Swing over carriage : 230mm; Lea	1
C TDIs Devices 1 1UDs	au
V-belt Driven Lathe Machine screw : 6 TPI; Power : 1HP;	
Accessories : Electrical Motor,	
160mm x 3 jaws true chuck, 200mi	1 1
4 jaws dog chuck, motorized coola	1
pump with fittings, face plate, stea	
rest, follow rest, Norton gear bo	
turning attachment, flame harder	
1 bed ways Length of Bed : 1370 mm; width	1 no
bed : 285mm; Height of centre	l l
205mm; Swing over bed 410mm	
Swing over cross slide : 205 mm	· 1
Distance between centers :750m	
Movement of cross slide: 240mr	
Bed type: 2V &2 Flat, Type of spir	
All Geared Lethe Machine nose: Taper nose; Taper bore in	*
spindle sleeve : MT -3, Spindle bo	
42mm , Tail stock spindle diamet	
52mm, Tail stock taper bore in	1
spindle: MT -3, Tail stock spind	lle
travel: 150mm, Travel of top sid	
2 160mm, Tool shank section: 25	
	-
Bar stock capacity : 25 - 64 mm	1,
Turret Lathe chuck size : 250380mm, Drive mo	otor
capacity: 5 - 10 HP, Swing over wa	ays:
3 550mm, speed : 50 - 150 rpm	

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PKG-9

		Length of bed : 1370mm, Width of	= "	(16)
	*	bed: 150mm, Maximum distance	y -	
	ž.	between spindle nose to turret face :	8	
		275mm, cross slide traverse travel :		
	*	110mm, cross slide longitudinal		
		travel: 150mm, No of spindle speeds		
1		: 3, range of spindle speed: 650 -	56 KI	
		1660 rpm, Effective stock of capstan		
		slide: 95, bore size of hex turret, 25,	ni.	
	*	centre of holes above turret slide :	2	
		40mm, Height of centre above bed:		
		150mm , Accessories : bar feed		
		attachment, true chuck 160mm x 3		
		jaws, adjustable knee tool holder,		
		bush guide tool holder, boring		
		toolholder, circular forming tool		
		holder for rear end, coupling forb		
		spindle nose 160mm dia, coupling for	2	
		spindle nose 200mm dia, collet end		
	** *** , a ,	rollabove 8mm, compound slide for		
		cross slide centering and facing tool		
		holder, drill chuck 13mm with sleeve,	-	
		four way tool holdfer with stopper,		
		knee tool holder, knurling tool holder		
	All Carred Carreton Latha	for turret, multi tool holder, plain	1 no	
4	All Geared Capstan Lethe	1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1110	I
				S
				ſ
	•	Drilling Capacity in MS : 38mm,		1 3.
		Drilling Capacity in Cl: 45mm, Spindle		
	· ·	nose: MT - 4, Spindle Travel:	8 2	M
		220mm, Number of spindle speed : 8		Α
		(gear drive), Range of spindle speeds	x - x	
		(rpm), 62 - 1980, main motor hp: 2,		R
		Elevating motor hp: 0.5, size of		K
		working table : 280 x 300 x 300 mm,		
9		Drilling radius max / min: 895/440,		_
		Max / Min distance column to spindle		0
		: 930/230mm, Diameter of column :		R
		165mm, swivel of arm L/R side: 760 x		
		1250 x 150, No of T - slots : (4) 16,		_
		Overall height: 200mm, Motorized		R
5	Universal Radial Drilling Machine	coolant pump with fittings.	i i	E
		Length of stroke : 1220mm, Width		Р
		between arms : 762mm, Height	e o	
		under cross rail : 762 mm, Length of	ť	U
н	Planning Machine	bed: 2033mm, width f bed: 457mm,	1 no	T
		working surface : 1220 x 610 mm,		Е
		No of T - slots : 4, Width of T - slots :	g	
6.		19mm, Motor hp : 3	,	D
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7	Slotting Machine	Length of stroke (maximum): 175mm, Working Stroke: 150mm, Ram adjustment: 125mm, length of ram bearing: 500mm, Maximum diameter accommodated when machine at centre: 500 mm, Height between table and head: 300mm, Longitudinal feed (manual) ,200mm,Longitudinal feed (auto): 175mm, Cross feed (manual): 225mm, Cross feed (auto): 200mm, Dimension of table: 275mm. Dimension of base plate 700 x 490mm, number and range of speeds: 2 (30 - 50), Motor (960 rpm): 1.5 HP, Optional Accssories: Tilting Head, rapid feed	
		Surface of table: 900 x 225mm, Distance between T - Slot: 55mm, Longitudinal travel of table 485mm, Cross travel of table 1500mm, Vertical adjustment of table:	
8	Universal Milling Machine	275mm, Distance between centerline of spindle to lower surface of overarm: 140mm, taper in spindle: ISO 40, Diameter of milling arbor: 25.4mm, range of spindle speed: 75,140,210,275,350,525 rpm, Number of feeds: 3, Motor: 2HP/1440 rpm, Motorized coolant pump.	1 no
9	Double Ended Motorized Bench Grinder	Motor HP: 1, Three Phase , 440V, 2800rpm, Coolant pump, wheel size : 250 x 25 mm , wheel guard	1 no
10	Double Ended Pedestal Grinder	Motor HP: 1, Three Phase , 440V, 2800rpm, Coolant pump, Grinding wheel : 200 x 40mm , working table size : 185 x 175mm	1 no
11	Hand Operated Hydraulic Press	Capacity: 5tons, Dimenssion between columns: (LxB) 500 X 125 mm, Distance between ram and bed maximum 600mm and minimum 75mm, Travel of ram: 100mm	1 no
12	Hydraulic jack	Capacity : It with hand pump	1 no
13	Manual Chain Pulley Black	Capacity : It& 3t	1 each
14	portable Blower	Specifications: Air Volume: 4.5m3/min, Air Pressure: 0 - 7.2 kpa, No - load speed: 0-16000rpm, Weight: 1.8 kg	1 no
	A MINE	PKG-G	, , 9

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7	sa I ' I Tomorio i on Ameioring Hole			(2)
	Mechanical Transmission training Unit,			
	Trolley Version with Storage cabinet and		1set	
	toolkit (Product of Feedback instruments			
15	Ltd. / UK)			
	Mechanical Training Bench (Imp - 1) with		1set	
	TSA Two student add - on (Product of	X.	1561	
16	interlitek, USA)		1	
17	Belt Driver Trainer (Product of DAC,USA)		1 no	
18	Chain Driver Trainer (Product of DAC,USA)		1 no	
19	Combined mechanical trainer (Product of DAC, USA)		1 no	
20	Coupling / Shaft Alignment Trainer (Product of DAC , USA)		1 no	
20	Combined mechanical trainer (Product of		4	
21	DAC,USA)		1 no	
22	BSC Bearing Service Cart with two students Add-on (Product of Intelitek,USA)		1 no	
23	Automatic Submerged Arc Welding Machine	470 A 415 V, 3 Phase	1 no	
24	Mig Welding Torch Gas Cooled - Cap Water Cooled - Cap	180A/250A/300A 300A/500A	1 no	
25	Pneumatic Spot Welding machines Primary Supply Voltage	415 V Rating 20KVA	1 no	* .
25	A/C, D/C Welding Rectifiers Input Supply		_	1
26	voltage	380/415/440	1 no	1
27	Welding tool Kit consists of Cutting torch, Gas Regulator, Welding Nozzles, Cutting Nozzles, Rubber Tube, Binkers, Copper Brush, Lighter, Spanner, Nozzle Cleaner		1 sets	S I M
28	Pencil / Hand Grinder Collet Capacity	3,6,6mm each	1 no	A
80,000	EMS REQUIRED FOR VARIOUS HYDRAULICS EX		2110	- R
D. 11	Determination of Critical Velocity Complete			- K
1	with all Accessories		1 no	
2	Collection tank with two compartments		1 no	
3	Venturimeters (Brass) of different sizes	25 mm, 38 mm, 50 mm	1 sets	- 0
4	Pitot tube	25 11111) 55 11111, 55 11111	1 sets	- R
5	U Tube Double Column Manometer of difference	15 cm, 25 cm, 50 cm, 100 cm	1 sets	-
6	Differential Manometer and Inclined Tube	50cm Scale	1 sets	R
-	Manometer	20-0-20 cm	1 sets	E
7	Inclined Manameter	50 cm	1 sets	- P
8	Demonstration Manometer		1 no	- U
9	Piezometer Tube	One Meter Long	1 no	-{ т.
10		One Meter Long	1 no	E
11				-
12			1 no	_ D
13	,		1 no	-
14	0	2 1	1 no	- В
15		*	1 sets	- R
16	Display Board for Pipes	A) is	1 no	Mobilis
	(,\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PKG-C	1.1	CHI BILLIA

17	Hydraulic Jack	2	1 no	A (19)
18	Hydraulic Press Model		1 no	N
	Hydraulic Ram		1 no	D
20	Gear Pump Model		1 no	
21	Rotary Pump		1 no	×
22	Centrifugal Pump (Actual Cut Section)	ş. "	1 no	
23	Reciprocating Pump		1 no	
24	Submersible Pump	1.	1 no	
	HYDRAULICS & FLUID MECHANICS LAB EQ	UIPMENTS (CLOSED CIRCUIT)		-
1	Centrifugal Pump Test Rig	,	1 no	-
2	Reciprocating Pump Test Rig		1 no	
3	Gear Pump Test Rig		1 no	
4	Hydraulic Ram Test Rig		1 no	
5	Two Stage Air Compressor Test Rig		1 no	9
6	Centrifugal Compressor Test Rig		1 no	
7	Rotary Compressor Test Rig	,	1 no	
	DEMONSTRATION UNIT WITH E	XPERIMENTAL SET	1.10	
	Axial Flow Fan Demonstration Unit fitted	AL EMINIENT AE SET		
	with sensors and Instruments to carry out	5	0 11	
1			1 sets	
	various experiments (Manufactured by			
	Armfield Ltd. / USA) Centrifugal Pump Demonstration Unit fitted	, a	=	×
			¥ 1	э
2	with sensors and Instruments to carry out		1 sets	
	various experiments (Manufactured by	2		
10	Armfield Ltd. / USA)	Dead weight calibrator Hydrostatic		
		pressure Bernoulli's Theorem		
				S
	**	demonstration Orifice discharge		. 3
_	Basic Hydraulic Bench with Accessories to	Energy losses in pipes Flow meter	1 sets	1
3	carry-out the following experiments.	demonstration Energy losses in bends	1 sets	
	,	Hydraulic Ram Series /Parallel Pumps		
		Cavitation demonstration		M
		(Manufactured by Armfield Ltd. /		A
		USA)		R
	Machine suitable for separately excited,	0.5104.0504.1000	4	
4	series, shunt and Compound Connections	2.5 kW, 250V, 1000 r.p.md.c	1 no	K
	and excitation.			- I
		DBILE EQUIPMENT	,	0
1	Sectional Working Model of 4 Stroke Diesel		1 NO	
	Engine			. R
	Circuit breaker. i. Air circuit breaker (ACB).			
	ii. Oil circuit breaker (OCB)			R
2	iii. Minimum oil circuit breaker (MOCB).		1 NO	
-	iv. Sf6 circuit breaker.	. **		E
	v. Vacuum circuit breaker (VCB).		2 ³	P
	v. vacuum cheult breaker (vcb).		,	
	Isolator, Earthing switch & Lightning] U
3	Arrestor.		1 no	T
4			1 no	E
4	Various Types of Fuses.		1 no	- 1
5	Various Types of Armoured & Flexible Power		1 NO	D
	Cables.		1110	-
6	Overhead Line Insulators.		1NO	J Allah -
	De line	PKG-G	7	2111118
	177	11/1/10	1	

		T		D Car
7	Flame Proof Enclosures of Mining Type	* ,	1NO	P & 9
1	Circuit Breaker & Electricial motor	•		R ~
8	Nozzle Tester	Max Pressure: 40 MPa or 60 Mpa	1NO	A
		Volume of fuel Tank 1500ml	1110	^
9	Cummins PT Pump Test Stand	Model No. PTW 100	1NO	N
40	Fuel Injector Pump Tester For Heavy Duty		1NO	D
10	Type for Multi Cylinder Engine	N.	1110	
11	Cummins Tools and equipments		1NO	
12	Cummins PT Injector Test Stand	Model No. PTW 200	1NO	an a
13	Injector Leakage tester		1NO	
14	Injector Top Stop Fixture		1NO	
15	STC Top Stand	STC with digital indicator	1NO	
16	Injector Disassembly & Assembly Tool		1NO]
17	Injector Cup Spray Tester		1NO	
18	Common Rail System Injector Tester		1NO	

T/C: * GST tax will be as soon in the quatation

* Delivery at Destination

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All Trip

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