MINING TECHNOLOGY GPI BUNER

LIST OF MINING FOR DAE (GPI BUNER)

S.No	Name of Items/	Qty
01	Drill Machine for Marble & Granite	01
	Air Pressure: 0.4 – 0.63MPa	
	Air Consumption: ≤9L/s	
	Impact Energy: ≥51HE	
	Or	
	Equivalent	
02	Drilling Machine Hole on Marble, Granite	01
	Specification:	
	Speed: 3800 ~ 6500 rpm	
	Voltage: 220V	
	Current: 2.5A	
	Out Power: 1000W	
	$\frac{Or}{I}$	
	<u>Equivalent</u>	01
03	Air-Leg Rock Drill	01
	Specifications:	
	Air consumption $\leq 81 \text{ l/s}$ Air hose dia25 mm	
	Water hose dia 13 mm	
	Impact frequency $\geq 37 \text{ Hz}$	
	Bit size 34~42 mm	
	Drilling depth 5 m	
	4Shank (hex. xL) $22 \times 108 \pm 1 \text{ mm}$	
	$-\frac{Or}{Or}$	
	<u>Equivalent</u>	
4	Portable Aneroid Barometer	02
	Measuring range 930 to 1,070 h Pa, 700 to 800 mm.	
	Hg, or wider, accuracy within	
	+ 1h Pa, thermometer	
	range -5 to 55°C or wider, accuracy with $+1$ °C	
	Or	
	Equivalent	
5		
-	Psychomotor	05
	For the measurement of	
	Humidity of mine air.	
	Measuring range 0 to $+$	
	5° C or wider accuracy with	
	+ 0.2 deg. C.	

		Or	
		Equivalent	
6	Electronic Dust Sampler Mass concentration range: 0.02 to 10 mg/m 3 or more, aerosol size measured: 10 u dia, 98% or better, accuracy: within + 10% of reading.	<u>Or</u> Equivalent	01
7			03
	Portable CO2 meter for analyzing the ambient CO2 concentration in mines, measuring range 0-40% or wider, accuracy: + 0.7 vol. % or better.	Or	
		Equivalent	
8	Portable CO detector Measuring range: 0-150 ppm linear, continuing 499 ppm, accuracy: + 10% F.S. o r better (Riken Kenki).	<u>Or</u> Equivalent	03
9	Measuring range: 0 to 30 m/s or wider, accuracy: + 3% FS, resolution: 0.1 m/s or less.	<u>Or</u> Equivalent	
10	Altimeter (18,000) for measuring height of slope and distance, to be supplied in case.	<u>Or</u>	02
		<u>Equivalent</u>	
11	Wet & Dry Bulb Hygrometer Digital, measuring range: -10 to + 60 deg. C temp: 20 to 99.9% R.H. at 25 deg. C or wider, accuracy:		05

	Or	
	Equivalent	
12	Air velocity monitor	02
	Measuring range: 0.1 –4.99	
	m/s, accuracy 10 to 25 m/s, -	
	10.0 to 60.0 deg. C, 30 to $0.00000000000000000000000000000000000$	
	98.0% or more accuracy with + 2% R.H.	
	<u>Or</u> Eminated	
12	Equivalent	05
13	Digital Dust Indicator	05
	Particle size: 10 m m and	
	below, measuring range:	
	0-4 mg/m3 (0-400 CPM or more), accuracy: + 10%.	
	<u>Or</u> Equivalent	
1.4	Equivalent	01
14	Total & Respirable Dust Sampler	01
	Measuring range: 0.1	
	-99.99% mg/m3 or more	
15		05
1.5	Digital Manometer	05
	Measuring range: 0-2000 mm	
	H2 O or more, accuracy: $+0.2\%$	
16	F.S.	05
10	Pitot Tube with differential pressure	05
	gauge, capable of ready to 21	
	Pa.	
17		01
	Diesel Smoke Tester	
	Paper filter reflection system), measuring range:	
	0-100%, (contamination	
	rae), accuracy: within +3% F.S.,	
	one sampling probe, sampling	
	hose (5 m., IPC) paper filter	
	(500 sheets), standard cola	
	paper (5 sheets), spare lamp	
18	(IPC) Luximeter	05
	Portable/Photometer (Digital)	05
	Measures the intensities of illumination in mines, range for	
	reading from 0.005 to 30	
	foot candles	
19	Oxygon Breathing Apparatus	01
	Oxygen Breathing Apparatus For underground mines.	
	Self contained, constant flow	
	andlung-governed,	
	closed-circuit compressed 02	

	1 • • • • • • • • • • • • • • • • • • •	
	supply type, or equivalent,	
	duration: approx: 2 hours.	
20		03
20	Self Rescue	03
	Duration: 30 min approx, 02 supply: constant flow 1.2 litre/	
	min or more with manual supply valve; initial	
	02 supply 5 litre, shoulder	
	type.	
	<u>Or</u> Equivalent	
21	Equivalent	02
21	Radon Detector	03
	(Monitor, detector,	
	printer), background	
	rate: approx 0.4 counts per	
	min. Counting rate: 106	
	counts per sec.	
	Max. number of runs more	
	than 80, dot matrix	
	printer (standard).	
	<u>Or</u>	
	Equivalent	
22		01
	Geiger counter	
	Measuring range: Survey	
	(Dose rate) 0-0.01, 0.1, 1,	
	10 m Sv/h or wider.	
	Dosimeter (Dose), 0.001-9.99	
	msv; 0.001-0.99 m sv –	
	0.001 m sv/digit, 1.00 –9.99	
	m/sv - 0.01 sv/digit or	
	wider, accumulated accuracy: +	
	10 % or better	
	Or	
	<u>Equivalent</u>	
23		60
23	Mines Safety Helmets	00
	High density polyethene	
	with removable	
	polyethylene(adustable), (150x170mm	
	Or	
24	<u>Equivalent</u>	02
24	Portable Gas Detector	02
	. Measuring range: approx 0-1	
	.8% LPG by volume	
	0-1.4%, accuracy: + 5% F.S. or better	

25		02
	Multi Toxic Gas Monitor	
	Measuring range (O2): 0-25.0	
	vol. %2 or more	
	accuracy + 0.7 vol %, Measuring range (combustible gas)	
	: 0-100%, LEL accuracy within + 5% LEL, Measuring	
	range (H2S): 0-30 ppm,	
	accuracy within 1.5 ppm,	
	Measuring range (CO):0-100	
	Ppm	
	Or	
	Equivalent	
26		05
	Single Gas H2S Personal Monitor	
	. Measuring range:	
27	0-30ppm Linear, continuing	03
21	Explosimeter	03
	Measuring range: 0 to 100	
	LEL, resolution 1% LEL 0	
	to 5 vol.% CH4, resolution	
	0.01 vl% 5% CH4,	
	resolution 1 vol. % CH4,	
	vol% autoranging.	
28	Sound Level Meter	02
	measurements:	
	30-70db, 50 to 90 dB, 70 to	
	110 dB, 90 to 130 dB or	
	better.	
	Or	
	Equivalent	
29	Self Rescuer Respirator	60
	(Emergency Protection against CO) Service life: 60 min. against 1% CO	
	at continuous flow rate of 32 liter/min., effective life: move than 10 years,	
20	consist of outer course dust filter, and inner dust filter.	50
30	Self Rescuer Training	50
	Model	
	Training model of item No.13 should be	
	cleaned, reassembled and	
	used again.	
31	Snake and insect Bite Kit	03
	Should have a vacuum pump of atleast 75 millibars of	
	suction capacity, should	
	include Bandages, safety	
L	merne Durauges, survy	

	razor, antiseptic etc.	
32	Resuscitation Training	03
	Model	
	Life size, foam – filled,	
	life-size manikin for teaching	
	mouth to mouth	
	resuscitation and external	
	cardiac compression	
33		
	Triangular bandages	100
34	Dragger Detectors	02
	With pump for measuring	
	CH4, (0-15%) and CO range	
	0-200 ppm, along with	
	detector tube.	
35	Composite Flame Safety lamp.	10
36	Electric Hand Lamp (Alkaline Battery).	10
37	Electric Self Service Cap lamp.	10
38	Davy Safety Lamp.	10
39	First Aid Kit	10
40	Stretchers	10
41	Ventilation Fans	02
42	Mine Telephone	01
43		05
	Lightening Detector	
	Range 10 to 100 mile,	
	4 step switch selectable or	
	more.	
	<u>Or</u> Eminet	
4.4	Equivalent	01
44	Inert Samples Of Explosive & Associated	01
	Accessories manufactured by Wah Noble, displayed on wall mounted	
	board. (Gratis-to be requested for).	
45		01
	Inert Samples Of Explosive & Associated	
	Accessories manufactured by BiafoIndustied, displayed on	
	wall mounted board.	
10	(Gratis-to be requested for).	10
46	Cap Crimper	10
	(Hand Type) for cap and	
47	fuse assembly. Moh's Hardness Test set (hardness ranging from 1-9)	02
47	Contour Model for topographical mapping.	03
48	Short Scleroscope with calibration blocks.	02
	-	02
50	Schmidt Impact Hammer (Rock) along with calibration anvil)	01

51	Schmidt Impact Hammer (concrete)	02
52	Geologic Fault	01
	Model (3D model for demonstrating various types of	
	faults), made from wood or	
	medium density fibre board,	
	multiple layered sections, viewing window to strata	
	movement.	
53	Geological Hammer	05
	Hardened steel head with chisel	
	edge on a steel shaft, that is	
	rubber sleeved, Head: 120 mm	
	length, hammer face: 20x25 mm, shaft length: 310 mm mass:	
	800 g (approx).	
	Or	
	Equivalent	
54	Streak plates	60
	(for use in mineral screatch tests) Ceramic, 50x50 mm	
	Or	
	Equivalent	
55		05
	Common Rock forming Minerals Set of about 50 specimens, (25x40	
	mm approx), consisting of	
	major ores, industrial minerals	
	and common rock forming	
56	silicates.	60
50	Pocket Magnifiers	00
	Multile lenses mounted in folding	
	Case, magnification (x8).	
57		05
	Rock Identification Set	
	Sets of common igneous, sedimentary and metamorphic rocks approx: 10 rocks samples in	
	each set	
58	Silver Ranger Compasses (1500x300mm).	02
59	Abney Hand level	24
	Measure slope upto 50°, Scale graduated from 0 to	
	100%, dimension (193x45x76mm).	
	<u>Or</u>	
	Equivalent	
60	Measuring tape (steel) 50 ft (15m).	12
61	Measuring tape (steel) 100 ft (30m).	12
62	Measuring tape (fibre glass) 50 ft (15m).	12
63	Measuring chain 66ft with ten Arrows (Engineers chain)	02

64	Measuring chain 66ft with ten Arrows (Gunters chain).	02
65	Survey Umbrella 60 inch diameter, double cloth & full steel rod.	02
66	Staff stadia 0.3 – 5 meters.	02
67	Planimeter Digital.	02
68		02
00	Brunton compass	03
	$2\frac{1}{2}$ dia with one discular& one	
	tubular bubble with	
	wooden adjustable stand.	
69	Clinometer, rectangular shape	
70	Ranging rods wooden (2 meter)	24
71	Telescopic Alidade with platable U-Fork	02
72	Plane table cover (canvass)	05
73	Plumbob brass (200 gram).	24
74		02
, .	Dumpy level	02
	Magn	
	25 x with original aluminum	
	stand & other standard	
75		10
, 0	Cross Staff/stand.	10
76	Theodolite,	05
	Magn: 30x20, seconds direct	
	reading with micro meter, on	
	ball & socket base, with	
	original aluminum stand & other accessories	
	Or	
	Equivalent	
77	Post for base line Measurement & Stretching devices.	02
	Post for base line measurement & Stretching devices.	02
78	Internal Gear Rotary Pump	01
	1 ¹ / ₂ suction in 40gpm, motor –	
	2hp, 3 phase, 1500 rpm, 50 hz.	
	Or	
	Equivalent	
9	<u> </u>	01
	Centrifugal Plump	01
	$2\frac{1}{2}$ in suction line, 2 in discharge	
	line motor -3 hp, e phase,	
	1500 rpm, 50 hz.	
	<u>Or</u>	
	Equivalent	
80	Flow Meter for measuring the flow of water capable of measuring upto 200gpm	01
81	Pressure Relief Valve, for positive displacement pump.	02
82	Pressure Gauge, capable of measuring water pressure upto 100 psig.	02
83	Wattmeter, 3 phase, accuracy 0.5%.	05
84	Drawing Boards 24" x 36"	60
		00

Drawing Tee square 36"	60
Pencils sharpener table type	60
Drawing Board Clearing Brush (nylon hair)	60
Drawing instrument set complete for classroom (Black board use)	05
Black board portable with stand (3' x 6')	05
Drawing table 30" x 42"	60
Drawing stool 14" dia ton 3ft height	60
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