

ADP Scheme - 778 (110489) (Package - 4)

GPI BUNNER LIST OF MINING FOR DAE

S#	Name of Items	For one college Qty	Unit Price (Both in Figures and words) Inclusive all taxes	Total Price (both in Figures and words) Inclusive all taxes
1	<p><u>Drill Machine for Marble & Granite</u></p> <p>Air Pressure: 0.4 - 0.63MPa</p> <p>Air Consumption: £9L/s</p> <p>Impact Energy: ³51HE</p> <p><i>Or</i></p> <p><i>Equivalent</i></p>	1		
2	<p><u>Drilling Machine Hole on Marble, Granite</u></p> <p>Specification:</p> <p>Speed: 3800 ~ 6500 rpm</p> <p>Voltage: 220V</p> <p>Current: 2.5A</p> <p>Out Power: 1000W</p> <p><i>Or</i></p> <p><i>Equivalent</i></p>	1		
3	<p><u>Air-Leg Rock Drill</u></p> <p>Specifications:</p> <p>Air consumption ≤81 l/s</p> <p>Air hose dia 25 mm</p> <p>Water hose dia 13 mm</p> <p>Impact frequency ≥37 Hz</p> <p>Bit size 34~42 mm</p> <p>Drilling depth 5 m</p> <p>4Shank (hex. xL) 22×108±1 mm</p> <p><i>Or</i></p> <p><i>Equivalent</i></p>	1		
4	<p><u>Portable Aneroid Barometer</u></p> <p>Measuring range 930 to 1,070 h Pa, 700 to 800 mm.</p> <p>Hg, or wider, accuracy within</p> <p>+ 1h Pa, thermometer</p>	2		

	range -5 to 55°C or wider, accuracy with + 1°C			
	<i>Or</i>			
	<i>Equivalent</i>			
5	Psychomotor	5		
	For the measurement of			
	Humidity of mine air.			
	Measuring range 0 to +			
	5° C or wider accuracy with			
	+ 0.2 deg. C.			
	<i>OrEquivalent</i>			
6	Electronic Dust Sampler	1		
	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.			
	<i>Or</i>			
	<i>Equivalent</i>			
7	Portable CO₂ meter	3		
	for analyzing the ambient			
	CO ₂ concentration in			
	mines, measuring range			
	0-40% or wider, accuracy: +			
	0.7 vol. % or better.			
	<i>Or</i>			
	<i>Equivalent</i>			
8	Portable CO detector	3		
	Measuring range: 0-150			
	ppm linear, continuing 499			
	ppm, accuracy: + 10% F.S. o			
	r better (Riken Kenki).			
	<i>Or</i>			
	<i>Equivalent</i>			
9	Measuring range: 0 to 30	1		
	m/s or wider, accuracy: +			

	3% FS, resolution: 0.1 m/s or less. <i>Or</i> <i>Equivalent</i>			
10	Altimeter (18,000) for measuring height of slope and distance, to be supplied in case. <i>Or</i> <i>Equivalent</i>	2		
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: <i>Or</i> <i>Equivalent</i>	5		
12	Air velocity monitor Measuring range: 0.1 –4.99 m/s, accuracy 10 to 25 m/s, - 10.0 to 60.0 deg. C, 30 to 98.0% or more accuracy with + 2% R.H. <i>Or</i> <i>Equivalent</i>	2		
13	Digital Dust Indicator Particle size: 10 mm and below, measuring range: 0-4 mg/m ³ (0-400 CPM or more), accuracy: + 10%. <i>Or</i> <i>Equivalent</i>	5		
14	Total & Respirable Dust Sampler Measuring range: 0.1 -99.99% mg/m ³ or more	1		
15	Digital Manometer Measuring range: 0-2000 mm	5		

	H2 O or more, accuracy: + 0.2%			
	F.S.			
16	Pitot Tube	5		
	with differential pressure			
	gauge, capable of ready to 21			
	Pa.			
17	Diesel Smoke Tester	1		
	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			
	(IPC)			
18	Luximeter	5		
	Portable/Photometer (Digital)			
	Measures the intensities of illumination in mines, range for			
	reading from 0.005 to 30			
	foot candles			
19	Oxygen Breathing Apparatus	1		
	For underground mines.			
	Self-contained, constant flow			
	andlung-governed,			
	closed-circuit compressed O ₂			
	supply type, or equivalent,			
	duration: approx: 2			
	hours.			
20	Self-Rescue	3		
	Duration: 30 min approx, O ₂ supply: constant flow 1.2			
	litre/			
	min or more with manual supply valve; initial			
	O ₂ supply 5 litre, shoulder			
	type.			
	Or			
	Equivalent			

21	Radon Detector	3						
	(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).							
	<i>Or</i>							
	<i>Equivalent</i>							
	22				Geiger counter	1		
					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			
					<i>Or</i>			
<i>Equivalent</i>								
23		Mines Safety Helmets	60					
		High density polyethene with removable polyethylene(adjustable), (150x170mm						
		Or						
		Equivalent						
24	Portable Gas Detector	2						
	. Measuring range: approx 0-1 .8% LPG by volume							
	0-1.4%, accuracy: + 5% F.S. or better							
25	Multi Toxic Gas Monitor	2						
	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 <i>Or</i> <i>Equivalent</i>			
26	Single Gas H2S Personal Monitor . Measuring range: 0-30ppm Linear, continuing	5		
27	Explosimeter 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.	3		
28	Sound Level Meter measurements: 30-70db, 50 to 90 dB, 70 to 110 dB, 90 to 130 dB or better. <i>Or</i> <i>Equivalent</i>	2		
29	Self Rescuer Respirator (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, consist of outer course dust filter, and inner dust filter.	60		
30	Self Rescuer Training Model Training model of item No.13 should be cleaned, reassembled and used again.	50		
31	Snake and insect Bite Kit	3		

	Should have a vacuum pump of at least 75 millibars of suction capacity, should include Bandages, safety razor, antiseptic etc.			
32	Resuscitation Training	3		
	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	2		
	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	2		
42	Mine Telephone	1		
43	Lightening Detector	5		
	Range 10 to 100 mile, 4 step switch selectable or more.			
	<i>Or</i>			
	<i>Equivalent</i>			
44	Inert Samples Of Explosive & Associated	1		
	Accessories manufactured by Wah Noble, displayed on wall mounted board. (Gratis-to be requested for).			
45	Inert Samples Of Explosive & Associated	1		
	Accessories manufactured by BiafolIndustied, displayed on			

	wall mounted board. (Gratis-to be requested for).			
46	Cap Crimper (Hand Type) for cap and fuse assembly.	10		
47	Moh's Hardness Test set (hardness ranging from 1-9)	3		
48	Contour Model for topographical mapping.	2		
49	Short Scleroscope with calibration blocks.	2		
50	Schmidt Impact Hammer (Rock) along with calibration anvil)	1		
51	Schmidt Impact Hammer (concrete)	2		
52	Geologic Fault 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.	1		
53	Geological Hammer 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). <i>Or</i> <i>Equivalent</i>	5		
54	Streak plates (for use in mineral scratch tests) Ceramic, 50x50 mm <i>Or</i> <i>Equivalent</i>	60		
55	Common Rock forming Minerals Set of about 50 specimens, (25x40 mm approx), consisting of	5		

	major ores, industrial minerals and common rock forming silicates.			
56	Pocket Magnifiers Multile lenses mounted in folding Case, magnification (x8).	60		
57	Rock Identification Set Sets of common igneous, sedimentary and metamorphic rocks approx: 10 rocks samples in each set	5		
58	Silver Ranger Compasses (1500x300mm).	2		
59	Abney Hand level Measure slope upto 50°, Scale graduated from 0 to 100%, dimension (193x45x76mm). <i>Or</i> <i>Equivalent</i>	24		
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)	2		
64	Measuring chain 66ft with ten Arrows (Gunters chain).	2		
65	Survey Umbrella 60 inch diameter, double cloth & full steel rod.	2		
66	Staff stadia 0.3 - 5 meters.	2		
67	Planimeter Digital.	2		
68	Brunton compass 2½ dia with one discular& one tubular bubble with wooden adjustable stand.	5		
69	Clinometer, rectangular shape			
70	Ranging rods wooden (2 meter)	24		
71	Telescopic Alidade with platable U-Fork	2		
72	Plane table cover (canvass)	5		
73	Plumbob brass (200 gram).	24		
74	Dumpy level	2		

	Magn			
	25 x with original aluminum			
	stand & other standard			
75	Cross Staff/stand.	10		
76	Theodolite,	5		
	Magn: 30x20, seconds direct			
	reading with micro meter, on			
	ball & socket base, with			
	original aluminum stand &			
	other accessories			
	<i>Or</i>			
	<i>Equivalent</i>			
77	Post for base line Measurement & Stretching devices.	2		
78	Internal Gear Rotary Pump	1		
	1½ suction in 40gpm, motor -			
	2hp, 3 phase, 1500 rpm, 50 hz.			
	<i>Or</i>			
	<i>Equivalent</i>			
79	Centrifugal Plump	1		
	2½ in suction line, 2 in discharge			
	line motor - 3 hp, e phase,			
	1500 rpm, 50 hz.			
	<i>Or</i>			
	<i>Equivalent</i>			
80	Flow Meter for measuring the flow of water capable of measuring upto 200gpm	1		
81	Pressure Relief Valve, for positive displacement pump.	2		
82	Pressure Gauge, capable of measuring water pressure upto 100 psig.	2		
83	Wattmeter, 3 phase, accuracy 0.5%.	5		
84	Drawing Boards 24" x 36"	60		
85	Drawing Tee square 36"	60		
86	Pencils sharpener table type	60		
87	Drawing Board Clearing Brush (nylon hair)	60		
88	Drawing instrument set	5		
	complete for classroom (Black			
	board use)			

89	Black board portable with stand (3' x 6')	5		
90	Drawing table 30" x 42"	60		
91	Drawing stool 14" dia top 3ft height	60		