

Dzong Construction Project Sarpang
Division for Conservation of Heritage Sites
Department of Culture, Ministry of Home and Cultural Affairs

Bill of Quantities/Price Schedule

Procurement of construction machinery

SI. No.	Discription	Specification	Qty.	Rate (Nu.)	Remarks
1	Tamping Rammer	Jump height: 40-65	per set		Complete set including all the necessary tools and others
		Advance speed: 10-13m/min			
		Impact frequency 420-650 times/min			
		Motor force: 3HP./ 3phase. 56Nm			
		Net weight: 70 kgs			
2	Heavy Duty Vibratory sand screening	Screen: 6mesh/ 8 mesh steel	per set		Complete set including all the necessary tools and others
		Drive: 5HP. 3 P.H Motor			
		Gear box			
		Screen sizes: 1200x 2500			
		Capacity: 20cum			
		Overall sizes: L-3000 x W-1600 x H-1800			
		Weight: 990kg			
		Vibrator: with accetric shaft			
		Spring: Heavy Duty 125/ 16mm tgick/ 120mm			
3	Heavy duty concrete drilling machine GBH 5-40 DCE Professional	Power input: 1150W	per set		Complete set including all the necessary tools
		Drilling dia.in concrete: 12-40mm			
		Single impact energy: 2-11J			
		Weight: 6.8Kgs			
		Impact rate at rated speed: 1500-3050 bpm			
		Rated speed: 170-340 rpm			
		Length: 485mm			
		Height: 260 mm			
		Optical appl. Range concrete, breakthrough drill bits: 45-55mm			
		Drilling dia in concrete with core cutters: 40-90mm			
		For hammer drilling in concrete: Vibration emission value ah: 10.5 m/s ²			

		Uncertainty K: 1.5m/s ²			
		For chiselling: vibration emission value: 7.5m/s ²			
		Uncertainty K: 1.5m/s ²			
4	Concrete vibrator diesel (For concreting)	Needle Size: 25mm, 40 Mm, 50mm And 60 mm	per set		Complete set including all the necessary tools including nozzles
		Needle Length: 4 Metres Or 6 Metres Long			
		Capacity: 12000 To 15000 Cm ³			
		Speed: 2850 / 3000 R.p.m			
		Power Unit: 4.4 Hp			
		Power Unit Fuel Type: Petrol/electrical			
		Power Drive Unit Make: Villiers/crompton Greaves/greaves Cotton			
5	Angle grinding machine GWS 8-100C Professional	Voltage/Frequency: 220 V			Complete set including all the necessary tools including nozzles
		Input power: 850V			
		No loadspeed: 11000 rpm			
		Dia of wheel: 100 mm			
6	Wood cutter machine	Rated power input: 1400 W	per set		Complete set including all the necessary tools
		No-load speed: 5.5 rpm			
		Weight: 4.1 Kg			
		Saw blade bore diameter: 20 mm			
		Saw blade diameter: 184 mm			
		Cutting depth			
		Cutting depth (90°): 67 mm			
		Cutting depth (45°): 48 mm			
6	Hydraulic mixer machine (diesel engine)	Drum Capacity: 10/7 cm ³	per set		Complete set including all the necessary tools
		Capacity:10/6 cm ³			
		Overall Dimension: 2550 x 1680 x 2600 mm			
		Prime Mover: 6 HP Kirloskar TAFI engine (Diesel engine)			
		Prime mover cabin: with sliding door			
		Loading Hopper: Hydraulic operated heavy duty power pack			

		Concrete mixing time: 3 mints approximate			
		Drum speed: 25 rpm			
		Hydraulic pump speed: 20 rpm gear pump @ 207 bar			
7	Grass cutter machine	Engine Type: Mitsubishi air-cooled 2-cycle gasoline engine	per set		Complete set including all the necessary tools
		Max. Output (PS): 1.7			
		Ignition: Solid state ignition			
		Carburettor: Float type			
		Fuel Tank Capacity (L): 1.4			
		Fuel: Mixed fuel of gasoline & 2-cycle oil(25:1)			
		Starter: Recoil starter (Easy start)			
		Shaft Type: Back pack			
		Drive Shaft: Flexible			
		Driving System: Automatic centrifugal clutch			
		Rotating Directing of Blade: Counter clockwise			
		Handle: Loop			
		Throttle Lever: Press			
		Strop Switch: Push button			
		Safety Guard: Plastic			
		Blade: Option			
		Overall Length: 2458mm			
		Nett Weight: 6.3kg			
8	Drilling machine Bosch GSB 16 RE professional	Rated power input: 701 W	per set		Complete set including all the necessary tools
		No-load speed: 0- 3000 rpm			
		Power output: 351 W			
		Weight without cable: 1.9 Kg			
		Rated speed: 0-1640 rpm			
		Drill spindle connecting thread: 1/2"-20 UNF			
		Chuck capacity: 1.5- 13 mm			
		Impact rate at no-load speed: 0-48000			

		Drilling range			
		Drilling dia. in concrete: 16mm			
		Drilling dia. in wood: 30 mm			
		Drilling dia. in steel: 12 mm			
9	Duraboard HD 100	Expansion joint filler board, 1200mm X 240mm X 50mm thick, black color, sunreme/silica/equivalent	per board		Complete set including all the necessary tools

Terms and condition

- 1 The work shall be awarded to the successful bidder that the bidder committee to deliver within offer time period.
- 2 The bidder must deliver the equipments within two weeks of receving the work order and failur to do so shall forfeit the PS without any notice and shall award the work to the second lowest bidder.
- 3 The bidder must submit the complete set of original documents with detail specification of the equipments and failur to do so shall lead to rejection.
- 4 The successful bidder should be able to provide spare parts as and when project demand and failur to do so shall forfeit the PS and award the work to next bidder.