

**INSTALLATION OF BLOCKER (SECURITY EQUIPMENTS) IN  
PESHAWAR HIGH COURT, PESHAWAR**

S.NO	Item of Work	Qty
1	<b>Automatic Road Blocker (Local )</b>	1 No
2	<b>Automatic Road Blocker (Imported)</b>	1 No
	<p>16 Feet Length, 4.5 Feet Depth, 2.5 Feet High            Heavy Checker Sheet            Built-in Heavy Duty Hydraulic Motor Pump            Built-in Sucking Pump            Steel Structure with antirust painting            with all Civil Work complete etc.            Entry/Exit and safety loop detector bases already built in.</p> <p><b>Technical Specifications.</b>            Drive unit : Electro - Hydraulic            Electric motor capacity : 5Kw - 7Kw, 230/440v,3hase,50Hz            Protection Class : IP 55            Total Weight : 1400Kg - 1700Kg (approx)            Static impact Load : min. 400kN horizontally            Wheel Load : 80KN vertically            Operation Time : Raising / Lowering 3 to 8 sec.            Surface Protection : Epoxy / Enamel Coating            Hydraulic fluid : Mineral or Biodegradable fluid            Operation temperature range : -20 / + 600 C            Power failure / emergency Operation : By integrated hydraulic manual hand pump            Electric Controls : Steel or Glass - Fiber reinforced Cabinet</p> <p><b>Feature</b>            Traffic Light "red/Green" with stand Post for bolting.            RSL system (Rear Safety Ligts)            Induction Loop Control System            Photocell Control System            Under Vehical Surveillance System            Speed Control System            Remote Control Operation Gate to Control Room            To Protect the forced entry of any vehicle            Remote operated wired electrical control unit</p> <p><b>Electrical and Electronic Components:-</b>            Power requirement 440v 60Hz,            220v,60Hz, all wiring complete etc:            Main Control Room To Main Gate</p> <p><b>Cabinet Control Panel</b>            Emergency Stop, Auto Down, Auto Up, Phase R, Manual</p> <p><b>Desk top Control Panel</b>            Emergency Stop, Local Enabled, Auto Up, Auto Down,</p> <p><b>Control Cabinet Electrical Components</b>            Control Panel, Power Supply, Battery Two units 12V &amp; 7 A,            Terminal connects electric connection, Batter            Charger, Thermic Magnetic Switch, Fuses, Simatic Logo PLC            Card 24VDC, 20input/14output, 20input-14output cards and            relay, Thermic Magnetic Switch, Contactor Drives the oil pump            Motor.</p>	
3	<b>Automatic Road Blocker (Local )</b>	1 No
4	<b>Automatic Road Blocker (Imported)</b>	1 No

## **A Description**

- 1 Obstacle made of two frames of thick section profiles (one fixed frame and another rotating one), the assembly being articulated on hinges all along its width (axle in stainless steel)
- 2 Barrier front face formed by curved plating closed at both ends, white enamelled with chevron-shaped red reflecting stripes, which hides the mechanism.
- 3 Fixed frame bolt onto a sealing frame, into the concrete pit.
- 4 AS1300 Control Board enabling various additional commands and/or accessory options.
- 5 Obstacle movements operated by a linear actuator, the angular position being monitored by inductive proximity switches (IP67). Locking of the obstacle in open/closed position by electro-magnetic brake.
- 6 Unidirectional green/red traffic light (LED), delivered with wall or post fixation brackets (post not supplied).
- 7 Operating the RSB without traffic light is forbidden by Automatic Systems.
- 8 Covering steel sheet for vehicles passage and access to mechanism.
- 9 Crank for manual operation of the obstacle.
- 10 Sensor for water level in the pit.

## **B Standard technical characteristics**

- 1 **Impact resistance: DoS K4 (stops a 6,8 tons vehicle at 48 km/h), calculated numerically (finite elements).**
- 2 **Height of raised obstacle: 665mm.**
- 3 **Widths of obstacle: 4000 mm**
- 4 **Dimensions of control unit:           width: 760mm  
  height: 1000mm  
  depth: 300mm**
- 5 Power supply of the control unit: 230V single phase, 10A.
- 6 Power consumption: max. 1,5 kW
- 7 Ambient operating temperature: -20C to + 50C
- 8 (Control unit to be kept in a room between 0C and 40C)
- 9 **Net weight with obstacle of:           4000mm = 1575 kg**
- 10 Weight of control unit: 35 kg
- 11 Operating time: 3 to 120 seconds, adjustable
- 12 Maximum load allowed: 20 Tons per axle
- 13 RSB protection (inside pit): IP44 if the concrete pit is correctly drained.
- 14 Control unit protection: IP 55
- 15 Motor protection: IP 65 (not to be immersed)
- 16 MCBF (Mean Cycles Between Failure, with respect to the maintenance program): 1,000,000 cycles
- 17 EC compliant

## **C Options**

- 1 Additional two-colour or orange traffic light (LED).
- 2 Post for traffic light installation.
- 3 Push buttons box (open-stop-close).
- 4 Inductive loop for car or truck detection.
- 5 Presence detector for inductive loop.
- 6 Transmitter / Receiver safety cell on post.
- 7 UPS (emergency power supply), enabling more than 10 operations.
- 8 Reinforced concrete pit **with rainwater drainage** and sealing frame installation.
- 9 Power supply to the control unit.
- 10 Electrical connection wiring between the control unit and the traffic light(s), the pushbutton box, the brake and motor controls, and the position sensors.

### **Electrical and Electronic Components:-**

Power requirement 440v 60Hz,  
220v,60Hz, all wiring complete etc:  
Main Control Room To Main Gate

#### **Cabinet Control Panel**

Emergency Stop, Auto Down, Auto Up, Phase R, Manual  
Down, Manual Up, Phase S, Phase T, Main Switch.

#### **Desk top Control Panel**

Emergency Stop, Local Enabled, Auto Up, Auto Down,  
Manual Up, Manual Down, Local/Remote Switch..

#### **Control Cabinet Electrical Components**

Control Panel, Power Supply, Battery Two units 12V & 7 A,  
Terminal connects electric connection, Batter  
Charger, Thermic Magnetic Switch, Fuses, Simatic Logo PLC  
Card 24VDC, 20input/14output, 20input-14output cards and  
relay, Thermic Magnetic Switch, Contactor Drives the oil pump  
Motor.

#### **Note:-**

- b **Two years Warranty**

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