

INSTALLATION OF BOLLARD (SECURITY EQUIPMENTS) IN PESHAWAR HIGH COURT, PESHAWAR

S.NO	Item of Work	Qty
1	Automatic Rising Bollard (Imported)	1 Job
2	Automatic Rising Bollard (Local)	1 Job

Automatic Hydraulic Rising Bollard for 16' feet distance, (4 bollards & controlled per board) with all accessories complete. 700/1000mm height above ground and depth of casing 1100/1800mm , 200/273mm outside diameter (Stainless steel) casing dia meter 406mm , 5 seconds raise time, 2 seconds lower time, Heavy duty side impact resistance, Polyurethane sleeved (red or black), Programmable logic controller pre- programmed to suit all type of access, control equipment., Entry/Exit and safety loop detector bases already built in.

To Protect the forced entry of any vehicle
 Remote Control Operation Gate to Main Control Room
 To Protect the forced entry of any vehicle
 Remote operated wired electrical control unit
 with all civil work complete etc:

Technical Specifications:-

Drive unit : Electro - Hydraulic
 Electric motor capacity : 5Kw - 7Kw, 230/440v,3hase,50Hz

Protection Class : IP 55
 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

Feature:-

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

Electrical and Electronic Components:-

Power requirement 440v 60Hz,
 220v,60Hz, all wiring complete etc:

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.

3	Automatic Rising Bollard (Imported)	1 Job
4	Automatic Rising Bollard (Local)	1 Job

Automatic Hydraulic Rising Bollard for 16' feet distance, (4 bollards & controlled per board) with all accessories complete. 700/1000mm height above ground and depth of casing 1100/1800mm, 5 seconds raise time, 2 seconds lower time.

- 1 High - Security obstacle comprising a 275mm diameter, 10mm thick steel cylinder.
- 2 30 mm thick cast aluminium crown.
- 3 56 mm reflective strip.
- 4 Mobile obstacle supported on a thick steel section supporting structure.
- 5 10 mm thick cast aluminium cover plate.
- 6 Galvanized sheet steel embedded casing with a cast iron frame at the top for attaching the obstacle.
- 7 Mobile obstacle is held vertically and strengthened by means of a thick steel collar connected to the supporting structure and a nylon bush built-in to the obstacle and sliding along the central jack.
- 8 Synthetic joint.
- 9 Double-acting central hydraulic jack for raising and lowering the obstacle.
Obstacle not fixed to the jack to limit damages caused by small shocks.
- 10 Hydraulic unit mounted on the supporting structure producing 40 bars to maintain the obstacle in the raised position.
- 11 Obstacle stopped in raised and lowered positions by mechanical stops.
- 12 Steel/rubber bearings support the obstacle when in the retracted position, allowing it to withstand the passage of heavy vehicles (40T)
- 13 Inductive sensors for raised and lowered position status information.
- 14 Remote microprocessor control board, separated from the obstacle, dipswitch programming, LED display for obstacle status and inputs/outputs used.
 - a **Electrical and Electronic Components:-**
Power requirement 440v 60Hz, 220v,60Hz, all wiring complete etc:
Control Room To Main Gate
 - b **Cabinet Control Panel:-**
Emergency Stop, Auto Down, Auto Up, Phase R, Manual Down, Manual Up, Phase S, Phase T, Main Switch.

- c **Desk top Control Panel:-**
Emergency Stop, Local Enabled, Auto Up, Auto Down,
Manual Up, Manual Down, Local/Remote Switch..
- d **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.
- e **Desk top Control Panel:-**
Emergency Stop, Local Enabled, Auto Up, Auto Down,
Manual Up, Manual Down, Local/Remote Switch..
- f **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.
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Note:-

- b **Two years Warranty**

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