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**TECHNICAL JOB
SPECIFICATION**

799/7

REVISION 0

DATE 05/04/2011

HIGH PRESSURE (HP) TRANSMISSION SYSTEMS

ACCESS CONTROL SYSTEM

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QUALITY ASSURANCE PAGE

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| 0 | 05-04-2011 | FIRST ISSUE | PQ DPT. | V.G. |
| Rev. No | Rev. Date | REASON FOR CHANGE | Made By | Approved By |

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1.0 **GENERAL**

The contractor shall supply, install and start-up a complete Access Control System consisting of:

- Magnetic card reader
- Magnetic cards
- Electric door locker
- Gate camera Access
- Control Panel

The system shall include all connectors, adapters and terminators necessary to interconnect all equipment.

All equipment connected to AC power shall be protected from surges. Fuses shall not be used for surge protection.

The ACS shall provide a user interface and an operator interface.

The ACS shall record each access as they occur.

This record shall include identification of the individual who accessed the site or a special area, location, time of day and date.

If access is denied, an access denial alarm shall be initiated.

2.0 **IDENTIFIERS**

An identifier shall be a magnetic card. Identifiers shall be used by ACS for the purpose of validating passage request for areas under control of the ACS.

3.0 **USE INTERFACE**

A magnetic card reader shall control passage. If all conditions are met, a signal shall be sent to the input device location to activate the appropriate electric door release. A special contact of or circuit shall prevent the magnetic door contact of the Intruder Alarm System to give Alarm to the Central Alarm Control Panel.

4.0 **CAMERA**

Fixed cameras with lens, power supply and housing shall monitor the control entry points.

The card reader and other field equipment, shall be rated for continuous operation under ambient site environment conditions without using auxiliary heating or cooling equipment.

5.0 **TIME ZONE**

This is a programmable zone that defines, through the use of the magnetic card, the duration of the personnel's presence in the area.

The access control system consists of a card reader" in the main gate and a card reader in the entrance door of the control room. A central unit, placed in

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the control room shall supervise the two entry points. Video monitors shall monitor the entrances.

The operator shall clearly identify a denied person from the card reader. It is Contractor's obligation to estimate the number of the personnel, so as he could be in the position to know the demanded card number. He also has to offer a 100% spare of them.

Notes:

a. The already contractual existing Intrusion System (Security Alarm System), shall be revised in order to adopt cooperation with the:

- Site Security System
- Access Control System

Owner also stated that the intrusion system (Security Alarm System) shall include the following:

System Equipment:

- Infrared motion detectors, 360° range, for all offices except control room and W.C.
- Infrared motion detectors, beam type for corridors.
- Magnetic switches for all external doors and C.R. doors.
- Panic buttons.
- Alarm sirens and flash lights (orange colour).
- Mimic panel located at Guard house (the final position should be examined during detail engineering).
- Safety system control panel (S.S.C.P.) located in the Control Room supported with battery back-up power supply system with 30 hours autonomy time in stand by condition and 30 minutes in alarm condition.
- The system should be consisted of zones, determined during detail engineering.
- Energizing and de-energizing key boards: Their location and the quantities is subject of the final design.

b. Periphon System (sensor cable) optional to be offered.