

3. Employer's Requirement

a) Bid Title

Supply and Installation of Vertical Parking Systems in Hulhumale'

b) Scope of work

Supply and Installation of Vertical Parking Systems as per the following Specifications

Puzzle Parking System Specifications (Vertical):

Structure:

- 1- All steel structure, structural items and platforms should be painted with corrosion resistant undercoat and paint or Galvanized
- 2- Load Capacity : 2500kgs/platform
- 3- 5 Level above ground (pit less)
- 4- Minimum 30 cars/jeep and maximum of 35 per system
- 5- Completely sealed platforms to prevent drip through.
- 6- Roofing should be as part of the structure.
- 7- Structure warranty should not be less than 15 years
- 8- Parts warranty should not be less than 5 years

Operation:

- 1- Fully automatic
- 2- Lifting & Lowering by Hydraulic Cylinder (in case of hydraulic operation) or by Electric Motor Chain Drives (in case of motorized operation)
- 3- Able to use access cards to use the service, PLC(programmable logic **controller**) controlled (user friendly)
- 4- High operational fluency
- 5- Low maintenance
- 6- Energy efficient
- 7- Low noise pollution

- 8- Longer service life
- 9- Independent parking and installation flexibility
- 10- Separate entry and exit
- 11- Retrieving a car should take a maximum of 180sec
- 12- Emergency Stop Push Button.
- 13- Mechanical safety locks.
- 14- 24v DC control circuit.
- 15- Input supply: 3 phase A.C. supply.

C) Service & hardware warranty: minimum 1 year

Note: Please refer to the drawings attached for further details. Any changes to the layouts are encouraged as long as it is in accordance with the requirements given.