

**1.0. PROJECT DESCRIPTION**

Sui Southern Gas Company Limited (SSGCL) is a Public Listed Large-Scale Company (LSC) and is Pakistan's leading integrated gas Company.

The SSGCL Head Office Building, located in Gulshan-e-Iqbal, Sir Shah Suleman Road, opposite to Expo Centre was constructed and commissioned in the year 2000. The building is supported by self-generation and HVAC plant which are lowered in the basement. The Building accommodates a Basement Equipment Access Hatch – with a removable Temporary Covering. This opening has never been utilized in the history of SSGC Building.

SSGC now intends to utilize this hatch opening in the revamping of HVAC system to lower the under procurement electric chillers. As opening has never been opened therefore SSGC intends to carry-out a comprehensive evaluation study about the health and integrity of the Pavements, checkered steel plates, and the beam supporting the plates. SSGC also intends to acquire as-built drawings with layout, sizes and material (specific standards).

**2.0. Scope of Work & Documentation**

**2.1 HATCH COVER ASSEMBLY & SUPPORT STEELWORK EVALUATION STUDY.**

2.2 Study and evaluation of basement equipment hatch that is temporarily covered by metal plates supported on equally spaced beams including but not limited to;

- a) As built drawing of basement equipment hatch.
- b) Beams sizes cross-section, material inspection and NDT (Non-Destructive Testing) for material composition and integrity detection.
- c) Identification of the beam size or it's equivalent in standard with respect to type, size and material composition.
- d) Identifying the metal plate's corresponding to standard in type, size and material composition. Orientation and layouts.

**2.3 PLAN VIEW – EXISTING HATCH COVER & SUPPORT LAYOUT DRAWING.**

- a) Overall opening size:
- b) Cover plates:
- c) Supporting beams:
- d) Lifting points: (If any)
- e) Perimeter:
- f) Beam bearing: routed onto the existing concrete ledge
- g) Beam spacing:
- h) Beam Padding:
- i) Beam grouting (if any)
- j) Floor to basement floor Clear height
- k) Drop zone envelope
- l) Cover plate engagement:
- m) Interlocking Plate Edge

**2.4 PLAN VIEW – NEWLY PROPOSED HATCH COVER & SUPPORT LAYOUT DRAWING: WITH COMPREHENSIVE DETAILS**

- a) New standardize Supporting beams: Type, size and material composition
- b) Lifting points: (If required)
- c) Beam bearing: grouted onto the existing concrete ledge
- d) Beam spacing:
- e) Beam Padding:
- f) Beam grouting (details if required)
- g) Drop zone envelope
- h) Cover plate engagement:
- i) Interlocking Plate Edge

  
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**Hiring Structural Engineering Firms to review and propose basement equipment access hatch opening and reclosing in proposed revamping of HVAC project design.**

**BOQ**

DESCRIPTION OF REQUIREMENT					
S. #	Description of Work	UOM	Qty	Unit Price	Value
01	Structural Engineering Firms review and proposed basement equipment access hatch opening and reclosing for revamping of HVAC project design as per TOR.	Job	01	Lump Sum	
TOTAL AMOUNT IN FIGURES:-					

