Faisalabad Industrial Estates Development and Management Company

Bidding Documents

FOR

Preparing and fixing 4 Nos. Gates at the entrance of Value Addition City, Near Khurrianwala Chowk, Faisalabad (Contract No. VAC-012)

APRIL- 2013

Faisalabad Industrial Estates Development and Management Company
FAISALABAD INDUSTRIAL ESTATE DEVELOPMENT & MANAGEMENT COMPANY

Invitation for Bids

The Employer, Chief Executive Officer, Faisalabad Industrial Estate Development and Management Company (FIEDMC), has allocated funds for the procurement of following Works:

- Preparing and fixing 4 Nos. Gates at the entrance of Value Addition City, Near Khurrianwala Chowk, Faisalabad (Contract No. VAC-012)

The Employer hereby invites sealed bids/quotation from eligible firms or persons having the relevant experience. The Works are required to be completed in one month.

Interest bidders may inspect the bidding documents at the address of the Employer between 0900 Hrs to 1700 Hrs and may purchase on submission of a written application and upon payment of a non-refundable fee of Rs. 300/- (Rupees Three Hundred only).

All bids must be accompanied by a Bid Security of an amount equal to 2% of Bid Price and must be delivered to the Employer’s address at or before 1100 Hrs on 07.05.2013. Bids will be opened at 1130 Hrs on the same day in the presence of bidders’ representatives who choose to attend, at the same address. Late tenders/bids will be rejected and returned unopened to bidders.

In case the bid opening date is declared a public holiday then the bids will be received and opened on the next working day or as notified.

There will be no price negotiations with the lowest evaluated responsive bidder. Bidders are, therefore requested to submit their lowest and best prices with their bids.

Employer’s Address
Chief Executive Officer
FAISALABAD INDUSTRIAL ESTATE DEVELOPMENT & MANAGEMENT COMPANY
1st Floor, FCCI Complex, East Canal Road, Canal Park, Faisalabad,
Tel: 041-9230231-4 Fax: 041-9230235
# BILL OF QUANTITIES

Client/ Owner : Faisalabad Industrial Estate Development & Management Co.
Name of Project : Development of Value Addition City, Faisalabad
Name of Work : Installation of Gates at Value Addition City Faisalabad.
Location : Near Khurrianwala Chowk, Lahore-Faisalabad Expressway, Faisalabad
Contract No : VAC - 012

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Qty.</th>
<th>Unit</th>
<th>Rate</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manufacturing and Installation of Main Gate including all materials as shown on the drawings, hinges, rail etc. Including two coats of red oxide and three coats of best quality enamel paint complete in all respects.</td>
<td>1,200</td>
<td>Kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Manufacturing and Installation Small Gate including all materials as shown on the drawings, hinges, rail etc. Including two coats of red oxide three coats of best quality enamel paint complete in all respects.</td>
<td>450</td>
<td>Kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Rs.

(Rupees___________________________________________________________)

In Words
Notes:

The Specification given in these documents shall be followed for the construction/completion of above-mentioned items; however, units for measurement shall be as stated in the Bill of Quantities.

The Contractor shall provide for all parts of the Works to be completed in every respect. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation of the Works, are not specifically mentioned in the Specifications, BOQ, Drawings etc. such details shall be considered as included in the Contract Price. In this regard, the bidders are required to visit the Site and examine the as-built factory entrance gates etc. The Employer/Engineer, however, may amend design of the gate(s).

The bidder shall also provide rate analysis for both the gates i.e. Main & Small. The design may be amended by the Employer/Engineer. Payment shall be made as per the actual quantities executed. Variation in the design of gate(s) and any subsequent reduction in estimated quantities shall not be admissible for any claim whatsoever.

The quantities given hereinabove are estimated and provisional and are given to provide common basis for bidding. The basis of payment will be the actual quantities of work executed and measured and valued at the rates and prices entered in the Bill of Quantities. Variation in quantities up to any extent shall not be admissible for any claim whatsoever.

Weight of the gate shall be taken before installation along with the weight of hinges, rollers, rail etc. but without painting.

Gates shall be installed as per the drawings and specifications and to the satisfaction of the Employer.

Payment may be made as follows:
90% Payment for each gate on completion and acceptance of the same.

10% Payment for each gate after one month of the Completion and Acceptance.

Bid security (in the form of CDR) shall be kept for the duration of completion of whole works as Performance Security.

_________________
CONTRACTOR
LETTER OF OFFER

Bid Reference No. VAC-012
Preparing and fixing 4 Nos. Gates at the entrance of Value Addition City, Near Khurrianwala Chowk, Faisalabad

To:

Chief Executive Officer
FAISALABAD INDUSTRIAL ESTATE DEVELOPMENT & MANAGEMENT COMPANY
1st Floor, FCCI Complex, East Canal Road, Canal Park, Faisalabad,

Gentlemen,

1. Having examined the Bidding Documents, Bill of Quantities, Conditions, Specifications, Drawings, etc. for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address

__________________________ hereby offer to execute and complete such Works in conformity with the said Documents for the following Bid Prices:

<table>
<thead>
<tr>
<th>Name</th>
<th>Bid Price (Rs.)</th>
<th>In Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing and fixing of Gates at Value Addition City Faisalabad</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of ____________ drawn in your favour or made payable to you and to retain as Performance Security as stated in the Bidding Documents.

3. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s).

4. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

5. We understand that you are not bound to accept the lowest or any bid you may receive.

6. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

7. We undertake, to be bound by all Bid Conditions even if a sub-head of the works is deleted at the time of award of works, during the execution. In such a case, the rates of the other sub-head(s) shall remain unaffected due to deletion of any sub-head.

Dated this ____________ day of ____________, 20__

Signature ____________________________

in the capacity of _______________ duly authorized to sign bid for and on behalf of ____________________________________________

(Name of Bidder in Block Capitals)
CONDITIONS/INSTRUCTIONS

- The bidders are advised to visit and examine the Site.
- All duties, taxes and other levies payable by the Contractor under the Contract or for any other cause shall be included in the rates and prices and the total bid price submitted by a bidder.
- Taxes include income tax, sales tax etc. The bidder must state about these taxes in his bid.
- The rates and prices shall not be subject to any adjustment and shall remain fixed.
- The bidder shall submit his bid in a sealed envelope.
- Any bid received by the Employer after the deadline for submission will be returned unopened.
- Notwithstanding anything contained in the Bidding Documents, the Punjab Procurement Rules 2009 (PPRA-2009) as prepared by the Government of the Punjab shall be applicable and shall supersede any clause contained in the Bidding Documents.
1. **SCOPE OF WORK**

This item shall consist of providing, fixing, and completing Mild steel gate to the entry of individual industrial units, complete as per plans and instructions of the Engineer.

2. **MATERIAL**

Mild Steel & Fabrication: The M.S.Gate shall be manufactured as per requirements contained in this document under Structural Steel.

Civil Work: The civil works of the gate shall conform to respective items contained under ‘Civil Works’.

3. **CONSTRUCTION REQUIREMENTS**

The gates shall be manufactured true to line and grades indicated on the plans. A sample to this effect will be produced by the Contractor for approval of the Engineer.

4. **MEASUREMENT**

The M.S.Gate finished and accepted for measurement shall be measured as per requirements of this section and plans. The gate shall be measured in square foot of area of gate, steel portion only. The cost of other areas shall be deemed to be included in the cost of M.S.Gate area.

5. **PAYMENT**

The unit rate of M.S.Gate will be full compensation for provision of materials and completion of the work including gate, excavation, brick masonry, cement concrete, installing, completing, complete including all incidentals to complete the item of the work.

Payment shall be made at the unit rate quoted in the Priced Bill of Quantities.
SECTION - 507
STRUCTURAL STEEL WORKS

1. SCOPE OF WORK

The work covered by this section, consists of supply of all material, labour, plant, equipment and appliances including welding, bolts, nuts, washers, anchor bolts, embedded parts etc, fabrication, erection and painting in accordance with the specifications and as per drawings and as directed by the Engineer.

2. DRAWINGS

Design drawings shall be prepared by the Engineer and supplied to the Contractor. These shall contain main dimensions, sizes of members, typical details of joints.

Workshop drawings shall then be prepared by the Contractor from the design drawings supplied and submitted to the Engineer for approval. Fabrication shall not be commenced until approval of workshop drawings has been obtained from the Engineer.

3. MATERIAL

Except otherwise stated in the drawings, the material specifications shall conform to the following. Wherever necessary the Contractor may use equivalent alternative material subject to approval of the Engineer.

3.1. Structural Steel

Structural steel for structures shall conform to the requirements of ASTM A-36 or equivalent

3.2. Steel Forging

Steel forging shall conform to the requirements of ASTM A235.

3.3. Steel Casting

Steel casting shall conform to the requirements of ASTM A27.

3.4. Welding

Welding Electrodes for manual shielded metal arc welding shall conform to AWS A 5.1 latest edition or the A 5.5 latest edition. Equivalent locally manufactured electrodes may be used subject to the approval of the Engineer.

3.5. Common Bolts, Anchor Bolts, Nuts and Washers Bolts and Nuts shall conform to the requirements of ASTM A 307.
3.6. **High Strength Bolts**

High strength carbon steel bolts including nuts and washers shall conform to the requirements of ASTM A325 latest editions and of AISI B18.2

3.7. **Washers**

Cut Washers shall be of structural grade steel and shall conform to the dimension of the manufacturer's regular standard for plain washers for the size of bolts used.

3.8. **Cast Iron**

Shall conform to the requirements of latest edition of ASTM A 48.

4. **FABRICATION**

4.1. **Straightening of Material**

Rolled material, before being worked upon must be straightened within tolerances, by ASTM specifications A6 Straightening, necessarily shall be done by mechanical means or by the application of a limited amount of localized heat. The temperature of heated areas, as measured by approved methods, shall not exceed 1100 0F for A514 steel or 1200 0F for other steels.

4.2. **Cutting**

As far as possible cutting must be done by shearing. Oxygen cutting shall be done where shear cutting is not possible and shall preferably be done by Machine. All edges shall be free from gauges, notches or burs. If necessary the same shall be removed by grinding.

4.3. **Holes Punching Drilling**

Holes shall be punched where thickness of the material is not greater than the diameter of bolt +3 mm. Where the thickness of the material is greater the holes shall either be drilled or sub-punched and reamed to size. The die for all sub-punched holes and the drill to all sub-drilled holes shall be at least 1.58 mm smaller than the nominal diameter of the rivet or bolt. Holes for A514 steel plates over 13 mm thick shall be drilled.

4.4. **Welding**

a. **General:**

The execution and inspection of welding will be done in accordance with the provisions of the American welding society code for welding in Building construction, D1.0. No welding for piping/electrical supports shall be made transversely to any tension flanges of trusses, beams or columns.

b. **Automatic sub-merged Arc Welding:**

For all built-up members, i.e. sections fabricated from plates and flat bars or compound rolled sections, plate and box girders, where long continuous, welding is to be done, should be executed by Automatic
submerged Arc Welding process in accordance with relevant AWS specifications.

c. Maximum and minimum size and lengths of fillet welds shall be in accordance with AISC specifications.

Surface to be welded shall be free from loose scale, slag, rust, grease, paint or any other foreign matter except mill scale which withstands vigorous wire brushing.

4.5. Tolerances

A variation of 1 mm is permissible in the overall length of members with both ends finished for Contact bearing. The bearing surfaces prepared to a common plane by mining.

Members without end finished for contact bearing which are to be framed to other steel parts of the structure shall have a variation from detailed length not greater than 3 mm.

5. SURFACE PREPARATION / PAINTING

5.1. Surface Preparation

All structural steel material i.e. rolled steel sections, plates, pipes, flat bars, chequered plates shall be cleaned free from loose scale, rust, burrs slag, etc. by means of sand blasting.

5.2. Painting

a. Immediately after surface preparation all material shall be given one prime coat of rust preventive paint.

b. After fabrication one shop coat of prime paint and then one coat of enamel paint shall be applied.

c. One final coat of enamel paint shall be applied after erection of all components.

d. The type of primer and enamel paints to be applied shall be as specified on the drawings.

e. All other requirements for the specified paint system shall be in accordance with the paint manufacturer’s specification recommendations.

f. The Contractor shall use the best quality of the type of paint specified and shall get the same approved by the Engineer.

g. Steel work/Surfaces not to be painted

- Steel work to be encased/embedded in concrete or surface in coated with contact with concrete or grout shall not be painted, but shall be given a cement wash after sand blasting. 
• Machined finished surfaces shall not be painted but shall be coated with rust preventive compound, (approved by the Engineer) immediately after finishing. Such surfaces shall also be protected with wooden pads or other suitable means for transportation. Unassembled pins, keys, and bolt thread shall be greased and wrapped with moisture resistant paper.

6. INSPECTION AND TESTS

6.1. Manufacturer's Work Test Certificate for all material used shall be furnished by the contractor for Engineer's scrutiny and approval.

6.2. Rolling tolerance of all shapes and profile according to AISC shall be in accordance with the provisions of the American Society for Testing and Materials Designation A.6. These shall be checked by the Contractor before being worked upon and shall be rejected if found not within limits.

6.3. The Contractor shall arrange for analysis and test of all material rolled locally at a testing laboratory selected by the Engineer.

6.4. Inspection of Welding.

The inspection of welding shall be performed in accordance with the American Welding Society specifications, as directed by the Engineer.

6.5. Rejection

Materials or workmanship not in reasonable conformance with the provisions of these specifications shall be rejected at any time during the progress of the work or the completion and erection at site.

7. MISCELLANEOUS STEEL WORKS

General

The work covered shall include furnishing, fabricating, installing and painting miscellaneous steel work include the following

• Steel windows/ventilators
• Steel louvred doors
• Steel rollup shutter
• G.I. flashing
• Steel gate and steel fence
• Steel ladders/ruhrs.
• Steel gratings
• Moulded steel sheet door frames
• Steel railing/fencing
• Steel grill
• Steel wire gauze

All steel fabricated items shall conform to the drawings, details and instructions of the Engineer. Contractor shall submit detailed shop/erection drawings of the above listed items to the Engineer for approval. Drawing, material, fabrication, surface preparation shall conform to the applicable requirements of relevant clauses of these specifications. Any proposed deviation due to field conditions and availability of local material shall be submitted to the Engineer for approval.
SECTION - 516
PAINTING

1. SCOPE OF WORK

The work under this section of the Specifications consists of furnishing all materials, plant, labour, equipment, appliances and performing all operations in connection with surface preparation, mixing, painting concrete works, gates, frames, walls, ceilings and all such surfaces as shown on the Drawings and/or as directed by the Engineer. The scope of this section of specification is covered with detailed specifications as laid down herein.

2. APPLICABLE STANDARDS

Latest editions of following British Standards are relevant to these specifications wherever applicable.

2.1 BSI (British Standards Institution)

245 Specification for mineral solvents (white spirits and related hydrocarbon solvents) for paints and other purposes.

2521 Lead-based priming paint for woodwork.

2523 Lead based priming paint for iron and steel.

2569 Sprayed metal coatings.

4800 Paint colours for building purposes.

CP.231 Painting of building.

CP 3012 Cleaning and preparation of metal surfaces.

3. GENERAL

3.1 Except as otherwise specified, all painting shall be applied in conformity with BS CP 231 "Painting of Building" as applicable to the work.

3.2 The Contractor shall repair at his own expense all damaged or defective areas of shop-painted metal works and structural steelwork. Metal surfaces against which concrete to be placed will be furnished shop-painted and shall be cleaned prior to being embedded in concrete.

3.3 Except as otherwise specified, all concrete and plastered surfaces are to be painted.

3.4 The Engineer will furnish a schedule of colours for each area and surface. All colours shall be mixed in accordance with the manufacturer's instructions.

3.5 Colours of priming coat and body coat where specified, shall be lighter than those of finish coat. The Engineer shall have unlimited choice of colours.
3.6 Samples of all colours, and finishes shall be prepared in advance of requirement so as not to delay work and shall be submitted to the Engineer for approval, before any work is commenced. Any work done without such approval shall be redone to the Engineer’s satisfaction, without additional expense to the Employer. Samples of each type of paint shall be on separate 1 ft. x 1 ft. x 1/8 inch tempered hard board panels. Manufacturer’s colour chart shall be submitted for colour specifications and selection.

4. MATERIALS

4.1 All materials shall be acceptable, proven, first grade products and shall meet or exceed the minimum standards of approved manufacturers.

4.2 Colours shall be pure, non-fading pigments, mildew-proof sun-proof, finely ground in approved medium. Colours used on plaster and concrete surfaces shall be lime-proof. All materials shall be subject to the Engineer’s approval.

4.3 Approved quality Distemper paint shall be used for painting where specified on the drawings as directed by the Engineer.

4.4 The plastic emulsion/weather shield paint or similar as approved by the Engineer shall be used where specified on the drawing as directed by the Engineer.

4.5 All material shall be delivered to site in their original unbroken containers or packages and bear the manufacturer’s name, label, brand and formula and will be mixed and applied in accordance with his directions.

5. DELIVERY STORAGE AND CONTAINER SIZES

Paints shall be delivered to the site in sealed containers which plainly show the type of paint, colour (formula or specifications number) batch number, quantity, and date of manufacture, name of manufacturer and instructions for use. Pigmented paints shall be supplied in containers not larger than 20 liters. All materials shall be stored under cover in a clean storage space which should be accessible at all times to the Engineer. If storage is allowed inside the building, floors shall be kept clean and free from paint spillage.

6. SURFACE PREPARATION

6.1 All oil, grease, dirt, dust, loose mill scale and any other foreign substance shall be removed from the surface to be painted, polished and white washed by the use of a solvent and clean wiping material. Following the solvent cleaning, the surfaces shall be cleaned by scrubbing, chipping, blasting, wire brushing or other effective means as approved by the Engineer.

6.2 In the event the surfaces become otherwise contaminated in the interval between cleaning and painting, recleaning will be done by the Contractor at no additional cost.

6.3 All the surfaces to be painted shall be free from dust, dirt, fungus, lichen, algae etc. Oil paint, varnish and lime wash should always be removed by scraping and washing.

No work in this section shall be allowed until all surfaces or conditions have been inspected and approved by the Engineer.
7. APPLICATION

7.1 All paint and coating materials shall be in a thoroughly mixed condition at the time of application. All work shall be done in a workman like manner, leaving the finished surface free from drips, ridges, waves, laps, and brush marks. All paints shall be applied under dry and dust free condition unless approved by the Engineer. Paint shall not be applied when the temperature of the metal or of the surrounding air is below 7 degrees centigrade. Surfaces shall be free from moisture at the time of painting.

All primary paint (Alkali Resistance) shall be applied by brushing. The first coat of paint shall be applied immediately after cleaning. When paint is applied by spraying, suitable measures shall be taken to prevent segregation of the paint in the container during painting operation.

Effective means shall be adopted for removing all free oil and moisture from the air supply lines of the spraying equipment.

Each coat of paint shall be allowed to dry or harden thoroughly before the succeeding coat is applied. Surfaces to be painted that will be inaccessible after installation shall be completely painted prior to installation.

Only as much material should be mixed as can be used up in one hour. Over-thinning will not be permitted. After the first coat the surfaces will be soaked evenly four or five times and the second coat shall be applied after leaving for at least overnight.

7.2 Where shown on Drawings all exterior finishes shall be painted with weather resistant paint in approved colours as per manufacturer’s specifications.

7.3 Plastic emulsion paint of the approved make and shade shall be applied to surfaces as shown on Drawings or as specified by the Engineer.

7.4 Polyvinyl Distemper of the approved make and shade shall be applied to surfaces as specified.

7.5 Polishing

After fine sanding by a skilled operator, one coat of clear polish should be rubbed in by hand using a cloth or pad, be allowed to dry and buffed up with worn fine sand paper or steel wool to remove raised grain. A second coat of clear polish should then be applied.

8. JOB CONDITIONS

8.1 Observe manufacturer’s recommended minimum and maximum temperature but do not apply paint or finish to any surface unless ambient temperature is 10 °C or above and less than 43 °C. Non painting shall be done above 90% relative humidity.

8.2 Adequately protect all finished work.

8.3 Remove and replace all items of finish hardware, device plates, accessories, lighting fixtures or other removable items.
8.4 In no case shall any finish hardware or other finished item that is already fitted into place be painted, unless otherwise specified.

9. **QUALITY ASSURANCE**

All paint for any one surface shall be top quality, of one manufacturer of the specified. Deep tone accent colours shall be used and the unavailability of final coat colours may be the basis for rejecting materials for any one surface.
Notes:

1. The Contractor shall fix the gates in the already constructed structure; the Contractor shall be responsible for providing labor for dismantling, fixing the gate and restoration of surface etc. Any material i.e. concrete, plastic etc. and other materials required for fixing the gates. No extra payment for any material, labor etc. shall be admissible except the weight of steel fasteners etc. and anchor bolts if used. The bidder must include the cost in his bid regarding the fixing of gates as no extra payment shall be made except the weight of steel items as per the BOQ rate. The Contractor shall also apply paints as required by the bidding documents.

2. The Contractor shall also fix the rails for the gates as shown in the drawings; necessary labor for any excavation, fixing of rails and restoration of surface and use of any material i.e. concrete/ plaster required for fixing the rails shall be provided by the Contractor and no extra payment shall be admissible except the weight of rails and hold fasts. The bidder must include the cost in his bid regarding the fixing of rails as no extra payment shall be made except the weight of steel items as per the BOQ rate. The Contractor shall also apply paints as required by the bidding documents.

FAISALABAD INDUSTRIAL ESTATE DEVELOPMENT & MANAGEMENT COMPANY, FAISALABAD

<table>
<thead>
<tr>
<th>Project</th>
<th>Value Addition City, Khurmanwala FAISALABAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>GATES</td>
</tr>
</tbody>
</table>