ENGINEERING PROJECTS (INDIA) LTD
(A Govt. of India Enterprise)
Bihar Police Academy Project, Rajgir, Nalanda, Bihar

NIT No.EPI/ER Site/685/DW/001 Date: 25.04.2016

NOTICE INVITING TENDER

Tender for Fabrication, Supply, Loading, transportation, unloading of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes etc. for the project of “Construction of Bihar Police Academy, Rajgir, Nalanda, Bihar”.

Engineering Projects (India) Ltd. Invites sealed tender for Fabrication, Supply, Loading, transportation, unloading of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes etc. for the project of “Construction of Bihar Police Academy, Rajgir, Nalanda, Bihar” in sealed cover for items as mentioned in Price Bid and instruction to tenderer (ITT) enclosed and as per details drawing & technical specification.

Before supply of materials, sample shall be got approved and all consignment must match the approved sample.

The offer should be valid for a minimum period of 2 (Two) months from the last date of submission of bid. In case the last date of submission of bid is extended the same shall be considered.

Delivery/Supply period: Progressively within 4(Four) months from the date of Purchase Order, or as per site requirement.

Time schedule of tender activities
i) Date & Time of downloading of Tender Documents : From 25.04.2016 to 09.05.2016 between 11.00am to 4.00pm
(www.epi.gov.in / CPP portal)

ii) Last date & time of submission of tender : 10.05.2016 upto 3.00pm

iii) Date & Time of Opening of Tender (Techno Commercial cum Price Bid Only): 10.05.2016 at 4.00pm

In the event of specified date of bid submission/opening being a declared holiday for EPI, the bid will be submitted /opened on the next working day.

The interested tenderers can download all the documents from EPI website www.epi.gov.in / CPP portal with all corrigendum/Addendum uploaded till the last date of issue of tender.

All the downloaded documents shall from part of the “Tender Documents”.

(Signature of Bidder with seal)
The complete tender document comprising of the following is to be duly signed & stamped on each page and enclosed along with the price bid.

1. NIT - 2 Pages
2. Instruction to Tenderer (Suppliers) - 2 Pages
3. Special Conditions of Purchase (SCP) - 4 Pages
4. Memorandum - 2 Pages
5. General Technical Specifications - 2 Pages
6. Steel Work & Rolling Shutter Specifications - 4 Pages
7. Price Bid - 1 Page
8. General purchase Condition - 9 Pages

The tenders of all such parties, who are not found suitable, shall not be considered. The decision of EPI in this regards shall be final & binding on the party.

EPI reserves the right to extend the date of submission of the tender or cancel or split the tender or annul this process and also the right to place orders for full or part quantities or distribute amongst various bidders without assigning any reasons whatsoever. The information of extension / cancellation, if any, shall be given on the EPI’s website www.epi.gov.in / CPPportal. The intending tenderers are requested to visit the EPI’s website regularly for this purpose.

The tender document shall be submitted to the address mentioned below:

   Executive Director
   Engineering Projects (India) Limited
   RS Villa, Kankarbag, Patna
   Bihar – 800020

Techno- Commercial cum Price Bid – Price bid along with Supplier credentials should be kept in the sealed envelope.

The cover must be clearly marked with title, NIT number, date of the tender enquiry and last date for receipt of tender. Tenderer shall clearly certify that the items quoted strictly conform to the specifications. Deviations, if any, should be clearly indicated on a separate deviation sheet.
INSTRUCTIONS TO TENDERERS (Suppliers)

1. Sealed tenders in the prescribed form are invited by Engineering Projects (India) Limited, Rajgir.

2. The tenderer is requested to sign each page of tender document and return the complete tender documents.

3. Tenders shall be submitted in sealed envelope marked with Title, NIT Number and Last Date of receipt of Tender for the items as given in the Notice inviting Tender at the following address by Registered Post, Currier or through messenger within the last date of receipt of tender given in the Notice inviting Tender.

   Executive Director  
   Engineering Projects (India) Limited  
   RS Villa, Kankarbag, Patna  
   Bihar - 800020

4. The tenderer is required to submit their offer in sealed and super scribed envelopes indicating the following:-

   Envelope (Techno-Commercial cum Price Bid)

   The tenderers are requested to furnish the documents in respect of the credentials and other details in this envelop.

   The form of Price Bid duly filled in with the item rates both in words and figures in the same form as issued to tenderers should be submitted in this envelope.

5. The bidders should quote in words as well as in figures the item rates quoted by them, in absence of which the Bids may not be considered and are likely to be rejected.

   All corrections/cuttings should be signed by the tenderer. Each page of the tender should be signed by the tenderer. In the event of discrepancy between rate in figures and words, the rate quoted in words shall be treated as correct. In case there is discrepancy between rate and amount, worked out the rate quoted shall be taken as correct and not the amount.

6. EPI takes no responsibility for tenders lost/delayed in postal transit and therefore, tenderers should lodge their tenders sufficiently in advance.

7. EPI reserves the right to postpone the tender due date and issue required amendment, if any. There will be no public tender opening. However, selected tenderers may be called for discussions/clarifications after the tenders have been scrutinized.

8. Tenders must be duly singed with date and sealed.

9. The tenderer shall furnish the name (s) and designation of relative (s) if any, employed by EPI.

(Signature of Bidder with seal)
10. Tenders with following discrepancies are liable for rejections;  
a) Tenders with over-written or erased rates or rates and amounts not written in both  
figures and words.  
b) Tender that is incomplete, ambiguous, and not accompanied by the documents asked for.  
c) Tender received after specified date/time whether due to postal or other delays.  
d) Tender in respect of which canvassing in any form is resorted to by the tenderer.  
e) If the tenderer deliberately gives wrong information in his tender or resorts to unfair  
methods in creating circumstances for the acceptance of his tender, EPI reserves the  
right to reject such tender at any stage.

11. No deviation shall be allowed from the terms and conditions stipulated in the tender  
documents and tender containing deviations are liable to be rejected. Deviation, if insisted  
upon must be specified in a separate ‘Deviation Sheet’ and kept in 1st envelop along with  
techno-commercial bid, otherwise, the tenderer shall be deemed to have accepted all  
conditions specified in these tender documents. Normally no deviation is accepted.

12. EPI reserves the right to split the order.

13. The tender shall remain open for acceptance for a period of 2 (two) months from the due  
date for receiving the tender by EPI.

14. These instructions to tenderers shall form part of the tender documents.

15. Submission of a tender by the tenderer implies that he has read the complete contract  
documents and has made himself aware of the scope, terms & condition and specifications  
etc. No claim within the purview of this clause shall be entertained at any stage.

16. EPI reserves the right to reject any or all tenders without assigning any reasons thereof and  
does not bind itself to accept the lowest tender.

17. In case the tender cannot be submitted for any reasons the complete set of Tender  
Documents in full shall be returned promptly but not later than 15 days from the due date to  
the address mentioned above for submitting the tender failing which the defaulting tenderer  
may not be considered for issue of future enquiries by EPI.

18. The order shall be governed by the Indian Laws for the time being in force.

19. Jurisdiction: All disputes shall be subject to Patna Courts alone.

20. Tenderer shall submit the following documents in respect of their credentials along with  
their tender in Techno-Commercial cum Price Bid envelope  
a) List of major clients  
b) List of orders executed/ under execution  
c) Price Bid
SPECIAL CONDITIONS OF PURCHASE (SCP)

NIT No.: EPI/ERSite/685/DW/001 Date: 25.04.2016

1. **Scope of work:** The scope of work of the tender shall include (but not limited to) Fabrication & Supply of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes, provision for fixing of mortise lock both side openable etc. at various Buildings inside the campus of Bihar Police Academy Project, Rajgir Nalanda, Bihar, as per bill of quantity enclosed in the price Bid, as per Technical specifications, Drawings, BOQ, Instructions and Terms and conditions given in Tender Documents and as per the instructions of the Engineer-in-charge (EIC) of EPI or any person authorized by him at the work site. The contractor shall make arrangement for T&P, safety arrangement, electricity etc. without any extra cost. The scope of works also includes arch/semicircular design over rectangular section of window/door.

Any modifications, if required to fixed the doors/Windows in the building and also any corrective measures for fixing of glass panes shall be carried out by the supplier free of cost.

Before supply of material, sample shall be got approved and all consignment must match the approved sample. Fabricator/interested bidder must ensure rectangularity/straightness of window/door so that 6 mm glass must fit into it. Apart from above, any other services not covered above but required as per direction of EPI are deemed to be included in the scope of work. The work to be carried out on item rate basis as per bill of quantities and tender conditions.

2. **Mode of measurement:** Measurement of Door, Window & beeding shall be done done as per unit mention in Bill of Qty./Price Bid and recorded in measurement register for payment purpose.

3. **Rates:** The party shall quote firm rates per unit basis in the enclosed price bid at Annexure-I. Rates quoted above are inclusive of all octroi, cess, taxes, duties, royalty, entry tax and freight charges etc. as applicable including loading, unloading & transportation charges at site of Bihar Police Academy Project, Rajgir.

4. **Payment terms:** (i) 95% of the bill payment shall be released within 7 days on submission of monthly on account bill for complete fabricated door/window supplied at project site.

(ii) Further 5% shall be released after satisfactory fixing of complete fabricated doors & window and fixing of glass panes in the buildings & Completion of supply in all Respect to the satisfaction of Client.
5. **Delivery Period**: The supply shall be done on monthly basis & completed within 4(four) months of written order or as per delivery schedule given by EPI.

6. **Splitting the supply**: EPI reserves the right to split the supply order.

7. **Entry tax**: Entry tax, if necessary, will be deemed to be included in quoted rates.

8. **Termination of Purchase order**: In case of unsatisfactory progress of supply, the purchase order shall be terminated by giving 3 days' notice.

9. **Price basis**: F.O.R at Bihar Police Academy Project, Rajgir site.

10. **References**: Applicable B.S building codes including all amendments up to tender closing date. In case of conflict, the more stringent requirement will apply unless ruled otherwise by EPI/EPI’s client.

11. **Taxes and duties**: All Taxes, Duties, Statutory levies such as VAT or any other similar Tax in the State concerned, Cess, Octroi, Entry Tax, Turn over Tax, Consignment Tax, Work Contract Tax, Service Tax, Toll Tax, Royalties, Levies and other Tax(es) or Duty(ies) etc as imposed by State / Central / Local Government Bodies from time to time except labour cess for the Works, are included in the contract price. Labour cess shall be borne by EPI and to be paid to the statutory authority on total contract value between EPI and its Client. Income Tax and other Deductions of Taxes as applicable shall be effected from RA Bills / due payment of the contractor. All taxes shall be included in quoted rate.

12. **Performance Security**: Not applicable.

13. **Quantity Variation**: The rates quoted by the bidder shall remain firm up to a quantity variation of plus or minus 25% to the quantities mentioned in the Price Bid.

14. **Material shall be delivered at**

    ENGINEERING PROJECTS (INDIA) LTD.,
    Bihar Police Academy Site
    Chhabilapur Road
    Rajgir (Nalanda) – 803116(Bihar).

15. **Conciliation and Arbitration**

    Before resorting to arbitration as per the clause given below, the parties if they so agree may explore the possibility of conciliation as per the provisions of Part-III of the Arbitration and Conciliation Act.1996. When such conciliation has failed, the parties shall adopt the following procedure for arbitration:

    15.1 Except where otherwise provided for in the contract, any disputes and differences relating to the meaning of the specifications, designs, drawings and materials used in the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or
relating to the contract, designs, drawings, specifications, estimates, instructions or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the Sole Arbitration of the Chairman and Managing Director (CMD) of Engineering Projects (India) Limited (EPI), or any other person discharging the functions of CMD of EPI is unable to act, to the Sole Arbitration of some other person appointed by the CMD of EPI or such person discharging the functions of CMD of EPI. There will be no objection if the arbitrator so appointed is an employee of Engineering Projects (I) Ltd. However, such an employee shall not have directly dealt with the said contract or the works there under on behalf of EPI. Such Arbitrator shall be appointed within 30 days of the receipt of letter of invocation of arbitration duly satisfying the requirements of this clause.

15.2 If the arbitrator so appointed resigns his appointment, is unable or unwilling to act due to any reason whatsoever, or dies, the Chairman & Managing Director aforesaid or in his absence the person discharging the duties of the CMD of EPI may appoint a new arbitrator in accordance with these terms and conditions of the contract, to act in his place and the new arbitrator so appointed may proceed from the stage at which it was left by his predecessor.

15.3 It is a term of the contract that the party invoking the arbitration shall specify the dispute / differences or questions to be referred to the arbitrator under this clause together with the amounts claimed in respect of each dispute.

15.4 The arbitrator may proceed with the arbitration ex-parte, if either party, in spite of a notice from the arbitrator, fails to take part in the proceeding.

15.5 The work under the contract shall continue, if required, during the arbitration proceedings.

15.6 The arbitrator shall make speaking Award and give reasons for his decisions in respect of each dispute/claim along with the sums awarded separately on each individual item of dispute or difference or claims. The Arbitrator shall make separate award on each reference made to him.

15.7 The award of the arbitrator shall be final, conclusive and binding on both the parties.

15.8 Subject to the aforesaid, the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modifications or re-enactment thereof and the Rules made there under and for the time being in force shall apply to the arbitration proceedings and Arbitrator shall publish his Award Accordingly.

Note: Notwithstanding anything contained herein above, this clause shall not be applicable where the dispute is between EPI and another Public Sector Enterprise or Govt. Department for which a separate Arbitration Clause is provided vide Clause No. A given below: -

(A) ARBITRATION BETWEEN PUBLIC SECTOR ENTERPRISES INTERSE/GOVERNMENT DEPARTMENTS.

(i) In the event of any dispute or difference relating Interpretation and application of the provisions of the contract, such dispute or difference shall be referred by either party to the arbitration as per the instructions (Office Memorandum/Circulars) issued by Govt. of India from time to time with regard to arbitration between one Govt. Deptt and
another, one Govt. Deptt. And a Public Sector Enterprise and Public Sector Enterprises inter se.

(ii) Subject to any amendment that may be carried out by the Government of India from time to time the procedure to be followed in arbitration shall be as is contained D.O. No. DPE/4(1)/2011-DPE (PMA)-GL dated 12.06.2013 of Department of Public Enterprises, Ministry of Heavy Industries and Public Enterprises or any modification issued in this regard.

16. Court Jurisdiction:

Disputes of any nature that may arise in connection with the execution of the contract shall be subjected to the jurisdiction of courts situated in Patna only.
**MEMORANDUM**

Ref. : Tender for Fabrication, Supply, Loading, transportation, unloading of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes and provision for for fixing of mortise lock both side openable etc. for the project of *“Construction of Bihar Police Academy, Rajgir, Nalanda, Bihar”*.  

NIT No: EPI/ER Site/685/DW/001 dated 25.04.2016

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>ITEMS</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>i)</td>
<td>Name of work</td>
<td>Fabrication, Supply, Loading, transportation, unloading of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes and provision for for fixing of mortise lock both side openable etc. for the project of <em>“Construction of Bihar Police Academy, Rajgir, Nalanda, Bihar”</em>.</td>
</tr>
<tr>
<td>ii)</td>
<td>Owner/Client / Employer</td>
<td>Bihar Police Building Construction Corporation</td>
</tr>
<tr>
<td>iii)</td>
<td>Type of Tender</td>
<td>Item Rate</td>
</tr>
<tr>
<td>iv)</td>
<td>Earnest Money Deposit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>v)</td>
<td>Estimated Cost</td>
<td>Rs 56.61 lakhs</td>
</tr>
<tr>
<td>vi)</td>
<td>Time for completion of work</td>
<td>4 (four)Months from the date of order.</td>
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<tr>
<td>vii)</td>
<td>Mobilization Advance &amp; Interest Rate on Mobilization Advance</td>
<td>NIL.</td>
</tr>
<tr>
<td>viii)</td>
<td>Validity of Tender</td>
<td>60 (Sixty) Days from the opening of Price Bid</td>
</tr>
<tr>
<td>ix)</td>
<td>Performance Guarantee</td>
<td>Not applicable</td>
</tr>
<tr>
<td>x)</td>
<td>Security Deposit:</td>
<td>An amount of 5% shall be deducted from the RA Bills towards security Deposit and will be released as per payment terms of SCP.</td>
</tr>
<tr>
<td>xi)</td>
<td>Time allowed for starting the work</td>
<td>The date of start of contract shall be reckoned 15 (Fifteen) days from the date of issue of telegram / letter / telex / FAX of Intent of acceptance of tender.</td>
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<tr>
<td>xii)</td>
<td>Defect Liability Period</td>
<td>15 Months</td>
</tr>
<tr>
<td>xiii)</td>
<td>Arbitration</td>
<td>As per EPI GPC &amp; SPC</td>
</tr>
<tr>
<td>xiv)</td>
<td>Jurisdiction</td>
<td>Courts in Patna</td>
</tr>
</tbody>
</table>
GENERAL TECHNICAL SPECIFICATION

FOR
Fabrication, Supply, Loading, transportation, unloading of steel doors/windows and its accessories like hinges, threshold, steel beading for fixing of glass panes etc. for the project “Construction of Bihar Police Academy, Rajgir, Nalanda, Bihar

Note: These specifications shall be read in conjunction with latest CPWD Specifications 2014 and other relevant specifications described in these specifications.

1. The work in general shall be carried out as per latest CPWD/Relevant BIS specifications, (updated with correction slips issued up-to last date of submission of tender) and Text of revised CPWD Specifications for Steel Works unless otherwise specified in the nomenclature of the individual item or in the particular specifications for civil works and BBCD specification.

2. In the absence of any definite provisions or any particular issue in the aforesaid specification, reference may be made to CPWD specifications, the latest BIS codes and specifications of IRC, BS, ASTM, AASHTO, MORTH and CAN/CAS in that order. Where even these are silent, the construction and completion of works shall conform to sound engineering practice as approved by the Engineer-in-Charge. In case of any disputes arises out of the interpretation of the above, the decision of the Engineer-in-Charge shall be final and binding on the Party.

Wherever reference is made in the contract to specific standard codes to be met by the materials, plant and other supplies to be furnished, and work performed or tested, the provisions of the latest edition or revision of the relevant standards and codes in effect shall apply, unless otherwise explicitly stated in the contract. Where such standards and codes are national or related to a particular country of region, other internationally recognized standards which ensure a substantially equal or higher performance than the standards and codes specified will be accepted subject to the Engineer-in-Charge prior review and written approval. Difference between the standards must be fully described in writing by the party and submitted to the Engineer-in-Charge at-least 15 days prior to the date when the party desires the Engineer-in-Charge's approval. If the Engineer-in-Charge determines that such proposed deviations do not ensure substantially equal performance, the party shall comply with the standards specified in the documents.

3. Absence of terms such as providing, supplying, laying, installing, fixing etc. in the description does not even remotely suggest that the Party is absolved of such providing, supplying etc. unless an explicit stipulation is made in this contract. The owner shall bear no costs of materials, equipments, duties, taxes, royalties etc.

4. The classification of various items of work for purpose of measurements and payments shall be as per bills of quantities (BOQ). Except where distinguished by the BOQ, the rates apply to all heights, depths, sizes, shapes and locations. They also cater for all cuts and wastes.
5. The specifications may have been divided in different sections/sub-head for convenience only. They do not restrict any cross-reference. The Party shall take into account inter-relations between various parts of works/trades. No claim shall be entertained on basis of compartmental interpretations.

6. Any builder’s work required as part of electrical and other installation shall be executed by the Party as directed under this contract.

7. The Party shall be required to submit and take approval from the Engineer of shop drawings of the items of work specified in the specifications or as directed from time to time. No extra payment shall be made for the same. Shop drawings shall be in metric units and shall be prepared in a format approved by the engineer.

8. All materials intended to be used at site shall be tested prior to its use in an approved manner. The frequency of tests of construction materials shall be as per the CPWD Specifications or as specifically mentioned in the Technical specifications or in special conditions of contract. Cost of all such tests and any other tests felt necessary by the Engineer shall be deemed to be included in the price of respective materials quoted by the Party. Any defective material brought to site shall be returned without any extra cost for the same.

9. Performance tests shall be carried out at the discretion of the Engineer on all/any items, of work as directed by the Engineer. Should any item shall fail to pass the tests, the Party shall be given opportunity to take corrective measures and have the same re-tested to the satisfaction of the Engineer, he may at his sole discretion order dismantling of the whole or part of the works done and order the Party to reconstruct the same. The cost of all these operations and materials shall be borne by the Party without any extra claim.

10. Before supply of material, sample shall be got approved and all consignment of supply should match the approved sample. In case of sub-standard/defective supply, it will be rejected outright and in such a case, removal of the supplied material from the site within a given notice period will be the responsibility of the supplier. Failure to remove the aggregate during the given notice period will entail the removal of the material by EPI at the risk and cost of the supplier.

11. In case, Client requires testing of materials from third party (i.e other than the site laboratory), the cost of sampling & testing shall be borne by suppliers.
GENERAL

The basic design drawing will be supplied by the clients to the contractor. The contractor is expected to submit the shop drawings giving details of fabrication of individual component, assemblies, erection with due reference to marking and sequences, welds, holes etc. for approval by the clients before commissioning fabrication. Five sets of approved drawings shall then be submitted by the contractor to the clients for use and record. Symbols for welding used on plans and shop drawings shall be according to Indian Standard Scheme of symbols for welding. Workmanship should conform to the Code of Practice brought out by the I.S.I. Contractor’s attention is invited to clause regarding supply of steel materials by the clients.

WELDING

Welding shall be in accordance with any of the following standards as appropriate:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>IS-823</td>
<td>Procedure code for metal arc welding of mild steel.</td>
</tr>
<tr>
<td>IS-1024</td>
<td>Code of practice for welding of structure subject to dynamic loading.</td>
</tr>
<tr>
<td>IS-1261</td>
<td>Code of practice for seam welding in mild steel.</td>
</tr>
<tr>
<td>IS-1323</td>
<td>Code of practice for oxy acetylene welding for structural work in mild steel.</td>
</tr>
</tbody>
</table>

PAINTING

All surfaces which are to be painted, oiled or otherwise treated shall be dry and thoroughly cleaned with sand paper / wire bush to remove all loose scale and loose rust. Preparation of surface shall conform to IS:477 (Part-I). Surfaces not in contact, but inaccessible after shop assembly, shall receive the full two coats of protective treatment before assembly. This does not apply to the interior of sealed hollow sections. Parts to be encased in concrete shall not be painted or oiled. Protective paint shall consist of one coat of non-setting genuine red oxide primer of approved make. Contact surfaces must receive one coat of red oxide before bolting. The surface of steel supports coming in contact with aluminium work shall receive one coat of solar aluminium zinc oxide composite primer instead of red oxide primer at no extra cost.

INSPECTION AND TESTING

The Contractor should afford facilities for the inspection of the work at all stages. The clients shall have free access at all times to those parts of the contractor’s work which are concerned with the storage and fabrication of the steel work. Further, the clients shall be afforded all reasonable facilities for satisfaction themselves that the fabrication is being undertaken in accordance with the standards laid down. The contractor shall guarantee compliance with the provisions of the standard, if required, to do so by the clients. All gauges and templates necessary to satisfy the clients shall be supplied by the contractor.

ERECITION

The suitability and capacity of all plant and equipment used for erection shall be to the satisfaction of the clients. All structural steel should be so stored and handled at site that the members are not subjected to excessive stresses and damages. The positioning and leveling of all steel work; the pumping of stanchions and the placing of every part of the structure with accuracy shall be in accordance with the approved drawings and to the satisfaction of the clients. Safety regulations and direction should be particularly noted and observed by the contractor and contractor shall be
completely responsible for this aspect of safety. Contractor shall produce the test certificate for the following once in every six months from the authorized / approved agencies:

Wire ropes, pulleys, tackles, winch, derrick, chains and cranes.

During erection the steel work shall be securely bolted or otherwise fastened and when necessary temporarily braced to provide for all load to be carried by the structure during erection including those due to erection equipment and its operation. No permanent bolting or welding should be done until proper alignment has been obtained. All field assembly and welding shall be executed in accordance with the requirements for shop fabrication, excepting such as manifestly apply to shop conditions only. Where the steel has been delivered painted, the paint shall be removed before field welding for a distance of at least 50mm on either side of the joints.

PAINTING AFTER ERECTION

Damaged or deteriorated paint surfaces shall be made good with the same type of paint as the shop coat.

MODE OF MEASUREMENT

All items shall be measured on sectional weights. No deduction shall be made bolt holes. The weight of cleats, brackets, packing pieces, bolts, distance pieces, separators, gusset and fish plates etc. shall be added to the weight of the respective items. The various items shall be classified and measured separately under the headings enumerated in the Indian Standard Method of Measurement of building works IS:1200. (Holding down bolts shall be measured separately by weight including nuts and washers). Weld metal shall not be measured for payment. No cutting margin for steel will be paid for. Net lengths and sizes of joists, channels, angles, plates etc. shall be taken from drawings and without deduction of holes, notches and skew cuts. Weights shall be calculated from the ISI handbooks and tables. In case of use of imported steel, the standards of respective countries shall be referred to. The quoted rate shall include the cost of all materials except those specified under clause shop drawings, testing of tools and equipments and one coat of red oxide primer / zinc oxide primer after surface preparation.

M.S. DOORS

The door shall be erected in level and plumb. The bottom guide rail shall be fixed in the floor in cement concrete, prop. 1:2:4. The top wheel guide rail shall be fixed suitably supported from the wall. The shutter shall be fixed to the wall (masonry or concrete) by means of clamps, or as detailed in the drawing if the shutter is to be fixed to the structural members, this shall be done as directed by the client, without any extra cost. The cost is inclusive of grouting with cement concrete, proportion 1:2:4 for fixing the clamps in to wall and cutting or leaving pockets in the all for providing such clamping arrangement in masonry and concrete.

Steel doors, windows, ventilators and composite units (I.S. : 1038). The type of doors, windows, ventilators shall be specified in the bill of quantities. Rolled steel sections for the fabrication of steel doors, windows, ventilators etc. shall conform to IS:7452. The manufacturer of the doors, windows and ventilators shall conform to IS : 1038. The pressed steel doors composite units shall be of specified grade and make. The fittings for the doors, windows and ventilators shall be of cast brass (heavy type) finished bright, chromium plated or oxidized, as directed. The rate shall include the cost of fittings. All cleaned free of rust and applied a coat of red oxide primer. The door kick panels shall be in double tray construction and shall be 1.25mm thick M.S. sheets. The kick panels shall be welded or screwed to the glazing bar and frame.

Steel hinges of doors shall be of the same type as for windows, but larger in size. The hinges shall be of 50mm projecting type. Non-projecting type hinges may also be used, if permitted. The hinge pins shall be of electro-galvanized steel or aluminium alloy of suitable thickness. (A mortice lock, with not less than 4 levers and handles on both sides, shall be provided) It shall be locked from both sides with the provision of bolt inside, so that when it is locked from inside and bolted, it cannot be opened from the outside with its key. In the case of double leaf doors, the first closing leaf shall be
the left hand leaf looking at the door from the push side. The first closing shutter shall have concaved brass (extruded section) bolts at top and bottom. Outer frames shall be provided with fixing holes centrally in the web of the section in position. Fixing lugs and screws shall be supplied for the positions provided in the frame.

For side hung shutters, the hinges shall be normally of projecting of projecting type and between 75 and 65mm wide. The hinge pin shall be electro-galvanised steel or aluminium alloy of suitable thickness. The handle for side hung shutters shall be mounted on a steel or aluminium handle plate. The handle plate shall be welded, screwed or riveted to the opening frame in such a manner that it could be fixed before the shutter is glazed and may not be easily removed after glazing. The handle shall have a two point nose which shall engage with a striking plate on the fixed frame in a slightly operable position as well as in a fast position. The boss of the handle shall incorporate a friction device to prevent the handle from dropping under its own weight and the assembly shall be so designed that the rotation of handle may not cause it to unscrew from the pin. Handle with one point nose may also be used, if permitted by the client. The handle shall not weigh less than 0.20 kgs. per handle. The windows shall be fitted with 300mm long peg stays which shall be of cast brass with steel peg and locking brackets. The peg shall have three holes to open the window in three angles. The peg and the locking brackets shall be riveted or welded to the fixed frame. The peg shall not weight less than 0.33 kgs. each.

The hung ventilator casement shall be provided with peg stay with three holes, which, when closed, shall be held tightly by the locking bracket. The locking bracket shall either be fitted to the fixed frame or to the window. Centre hung windows shall be hung on two pairs of brass cup pivots riveted to the inner and outer frames of the window to permit the window to swing to an angle of approximately 85 degrees. The opening portion of the window shall be so balanced that it remains open at any desired angle under normal weather conditions. A brass spring catch shall be fitted in the centre of the top bar of the centre hung window for the operation of the window. This spring catch shall be secured to the frame with M.S. screws and shall close into mild steel or malleable iron catch plate, riveted, screwed or welded to outside of the outer window frame bar. A brass or aluminium chord pulley wheel in galvanized mild steel or malleable iron bracket shall be fitted at the sill of the centre hung window with mild steel screws or alternatively welded required for fan hooks in the existing slabs, the cost shall be inclusive of all operations covered in the item described above.
ROLLING SHUTTERS

1. Rolling Shutters

Shall be of approved manufacture and design and shall be suitable for fixing in the position ordered i.e. outside, inside, on or below lintel or between jambs of the openings. Shutters up to 10 sq.m in area shall be of manually operated or push up type, while bigger size shall be of reduction gear type, mechanically operated by chain or handle. The shutters shall be treated with one coat of approved anti-corrosive paint at the manufacturer's workshop.

2. Laths shall be interlocking 75mm (rolling centres) by 1.25mm thick best quality mild steel strips, machine rolled and straightened with an effective bridge depth of 16mm.

3. Site guides and bottom rail shall be joint less and single place of pressed steel.

4. The spring assembly shall be supported on strong mild steel or malleable cast iron brackets shaped to fit the lintel. The rolling spring shall be manufactured from tested unbreakable high tensile steel wire or strip of adequate strength to balance the shutter in all positions.

5. The shutters shall be completed with door suspension shafts, ball bearings, locking arrangements, cogger pulling hooks, handles and other accessories.

6. Fixing to be done securely in a workmanlike manner to the satisfaction of the Corporation, so that the operation of the shutter is easy and smooth. All work disturbed or cut away shall be made good to match existing.

7. Electrically operated rolling shutter to be as approved by the Corporation.

8. Measurement: Clear width and clear height of the opening for rolling shutter shall be measured correct to a mm. The clear distance between the two jambs of the opening shall be clear width and the clear distance between the sill and the soffit of lintel of the opening shall be clear height. The area shall be calculated in sq.m correct to two places of decimal.

9. Rates: The rate shall include the cost of materials and labour involved in all operations described above including cost of top cover and spring except Mechanical and Electrical device which shall be paid separately.
ENGINEERING PROJECTS (INDIA) LTD.
(A GOVERNMENT OF INDIA ENTERPRISE)

Materials Management Division

GENERAL PURCHASE CONDITIONS
1. Definition

1.1 The Buyer means Engineering Projects (India) Limited, a Company incorporated in India and having its registered office and Corporate Office at Core 3, Scope Complex, Lodi Road, New Delhi-110003.

1.2 Supplier' means the tenderer whose tender has been accepted and shall include his/their heirs, executors, administrators or successors and permitted agents as the case may be.

1.3 'Purchase Order' means the letter of memorandum, communicating to the supplier, the acceptance of his tender and includes an advance acceptance of his tender.

1.4 Consignee' means where the stores are required by the purchase order to be dispatched by rail, road, air or steamer, the person specified in the Purchase Order to whom they are to be delivered at the destination, where the stores are required by the Purchase Order to be delivered to a person as an interim consignee for the purpose of dispatch to another person, such other person and in any other case the person to whom the stores are required by the Purchase Order to be delivered in the manner specified therein.

1.5 'Inspectors' : Inspectors deputed by BUYER.

2. Terms & Expressions
Terms & expressions not herein defined shall have the same meanings as assigned to them in the Indian Sales of Goods Act, 1930, Indian Contract Act, 1872 and General Clause Act, 1897.

3. Prices
Prices accepted by the BUYER shall be considered as firm and not subject to escalation due to any variations in the prices of materials, labour and/or any other reasons whosoever which may occur while the order is being carried out.

4. Payment Terms
Unless otherwise agreed upon between the parties, payment for delivery of the stores will be made on submission of bills in accordance with instruction given in the purchase order by a cheque or demand draft in accordance with the following procedure.

4.1 90% of the price of the equipment/material shall be paid on proof of dispatch to the consignee through bank or delivery to an interim consignee, if any, and on production of Inspection Note issued by the Inspector, Maker's Test Certificate, the number- and date of the Railway receipt, postal receipt,
bill of lading or consignment note under which the goods charged for in the bill are dispatched by rail, post, sea or air respectively and the number and date of the letter with which such railway receipt, post receipt, bill of lading shall also be attached to the bill and in the case of stores dispatched by post, the postal receipt shall be attached in original to the bill. The bank charges shall be borne by the supplier.

Balance 10% of price of equipment/material shall be released within 30 days after expiry of the warranty period as per Clause No. 17.

5. **Insurance to be arranged by BUYER.**

6. **Inspection, Checking, Testing**

The stores covered by the Purchase Order shall be subject to preliminary inspection and testing at any time prior to shipment and/or dispatch and final inspection within a reasonable time after arrival at the place of delivery. The Inspector shall have the right to carry out the inspection and testing which include raw materials at manufacturer's work and at the time of actual dispatch before and after completion of packing.

The supplier shall inform the BUYER at least 21 days in advance of the exact place, date and time of rendering the stores for required inspection, provide free access to Inspectors during normal working hours at supplier's or his/its sub-supplier's works and places at their disposal, internal test reports, material/component test certificates, approved drawings and all useful means of performing, checking, marking, testing, inspection and final stamping at his own expenses. Stores offered without internal testing shall be treated as a lapse on the part of supplier.

If, after receiving inspection call from the supplier/manufacturer the inspector on reaching the works finds that the equipment/materials offered for inspection is not fully ready or fails to meet vital requirements, it will be deemed to be a fake inspection call. Issue of a fake inspection call shall be treated as a serious lapse on the part of the supplier.

In the event of rejection of stores due to defective workmanship/material/design or fake inspection call, the stores would be offered for re-inspection at the earliest. The BUYER shall have the right to deduct the cost of re-inspection from the supplier's invoices.

Even if inspections and tests are fully carried out, supplier shall not be absolved to any degree from their responsibilities to ensure that stores supplied, comply strictly with requirements, of the purchase order at the time of delivery, inspection on arrival at site, after its erection or start-up and guarantee period.

In any case, the stores must be strictly in accordance with the Purchase order failing which the BUYER shall have the right to reject goods and hold the supplier liable for non-performance of contract.

7. **Maker's Test Certificate:**

Maker's Test Certificate shall be supplied by the supplier at the time of inspection. Failure to comply may cause delay in the issue of certificate of inspection and consequent delay in delivery and payment.
8. Packing, Marking and Painting:

A. The stores shall be dispatched by the supplier adequately packed in appropriate packing which should be suitable for sea and inland carriage and ensure complete safety of goods from any kind of damage in transport both on sea and land and all equipment should be properly lubricated.

B. Each package shall contain packing list in English. Each packing shall bear the following marking in English, in indelible paint:

(i) Address of the Ultimate Consignee (ii) Address of the Interim Consignee, if any (iii) Name of Railway Station for ultimate and interim consignee, (iv) Supplier's name (v) Name of Equipment (vi) Railway Station from where dispatched (vii) Purchase Order No. & Date (viii) Package Number (ix) Gross Weight in Kg (x) Net Weight in Kg. (xi) Outer Dimension in Cms. (xii) TOP' 'Do NOT TURN OVER' 'HANDLE WITH CARE' etc.

The package shall indicate the centre of gravity with a red vertical line, wherever required, together with marking for slings.

The package which cannot be so marked shall have metal tags with the above marking on them.

As far as possible, size of packing’s shall remain within the permissible limit allowed by the Indian Railways. If this is not possible, timely information will be given and necessary over dimension sanction obtained.

9. Security Deposit:

The successful tenderer shall be required to furnish security deposit equal to 5% of the value of the contract within 7 days from the date of intimation of the acceptance of Purchase Order for due and proper fulfillment of the contract. The security deposit is to be deposited in the form of unconditional irrevocable bank guarantee from a Nationalized Bank (if from any other bank the bank guarantee should be duly countersigned by State Bank/Reserve Bank). The bank guarantee should remain valid till completion of supplies.

10. Dispatch Instructions:

Dispatches of stores will be arranged by Public Tariff rates. In case of FOR Station of Dispatch stores shall be booked at full wagon rates whenever available and by the most economical route or by most economical tariff available. Failure to do so will render the supplier liable for any avoidable expenditure caused to the BUYER.

11. Assembly, after sales service and training:

IF required by the BUYER the supplier shall be fully responsible for the assembly of the equipment at destination site and completeness of the machinery from the angle of its end use. The supplier shall provide necessary "After Sales Service" and also impart training to the Consignee's staff in the operation and maintenance of the equipment free of cost to the satisfaction of the
consignee. Furthermore, all tools and plants particularly heavy cranes, which are generally used as well as semi-skilled and unskilled labour for the assembly of such machinery will be provided by the BUYER free of cost to the supplier with consumable stores, like fuel, oil, lubricants, battery acids, cotton waste, grease etc., free of cost for the purpose of starting the machines, testing and putting them into good working order.

12. Respect of Delivery Date:
The time and delivery date as agreed to between the BUYER and Supplier shall be the essence of the contract. No variation shall be permitted, except with prior authorization in writing from the Buyer. Goods should be delivered securely packed and in good order and conditions at the place and within the time specified for their delivery.

13. Penalty for late deliveries:
The time and date of delivery of stores, materials, equipment as agreed to shall be deemed to be the essence of the contract. In case of delay in execution of the order beyond the date of delivery as agreed to for any reason, the BUYER shall recover from the supplier as penalty a sum equivalent to 0.5% of the value of the entire contract for every week of delay or part thereof limited to an aggregate of 5%.

14. Risk Purchase on Default
In case of default on the part of the supplier to supply all the stores or part thereof covered by the contract up to the standard/specifications within the contractual delivery period stipulated in the contract, the BUYER shall have the right to purchase such stores or other of similar description at the risk and cost of the supplier. However, supplier shall be liable to pay penalty under clause 13 above for resultant delay.

15. Delay due to force majeure
If any time during the continuance of the contract the performance in whole or part by either party on any obligation under the contract shall be prevented or delayed by reason of any war, hostility, explosions, epidemics, quarantine restrictions, or other acts of God, then provided, notice of the happening of any such event is given by either party to the other within twenty one days from the date of occurrence thereof, neither party shall be reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and deliveries under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist and the decision of the Chairman and Managing Director, EPI, New Delhi as to whether the deliveries so resumed shall be final and binding on both the parties. In case Force Majeure Condition persists for a period exceeding sixty (60) days, either party may at its option terminate the contract.
BUYER shall be at liberty to take over from the supplier at a price to be fixed by the Chairman and Managing Director, EPI, New Delhi which shall be the final, all unused, undamaged and acceptable material, bought out components and stores in course of manufacture in the possession of the supplier at the time of such termination or portion thereof as the BUYER may deem fit.
16. Rejection, Removal of Rejected Goods and Replacement
In case the testing and inspection at any stage by inspectors reveal that the equipment, material and workmanship do not comply with the specifications and requirements, the same shall be removed by the Supplier at his/its own expenses and risk within the time allowed by the BUYER. The BUYER shall be at liberty to dispose of such rejected goods in such manner as he may think appropriate, in the event the supplier fails to remove the rejected goods within the period as aforesaid. All expenses incurred by the BUYER for such disposal shall be to the account of the supplier. The freight paid by the BUYER, if any, on the inward journey of the rejected material shall be reimbursed by the supplier to the BUYER before the rejected materials are removed by the Supplier. The supplier will have to proceed with the replacement of that equipment or part of equipment without claiming any extra payment if so required by the BUYER. The time taken for replacement in such event will not be added to the contractual delivery period.

17. Warranty
The supplier shall warrant that every material/plant, machinery and equipment to be supplied be new and free from all defects and faults in design, material, workmanship and manufacture and shall be of the highest quality.

The items should be consistent with the established, recognized or stipulated standards for material of the type usually used for the purpose and in full conformity with the specifications and drawings or samples, if any. Equipment offered must be capable, during operation, of withstanding extreme dusty, wet, humid and sultry conditions. The warranty shall continue not withstanding inspection, payment, acceptance of tendered equipment and shall expire except in respect of complaints notified to supplier prior to such date within 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier.

18. Performance Guarantee
The supplier shall guarantee that any/all material used in execution of the Purchase Order shall be in strict compliance with characteristics requirements and specifications agreed upon and that same shall be free from any defects.

The supplier shall guarantee that all material and equipment shall be repaired or replaced as the case may be at his own expense in case the same have been found to be defective in respect of material, workmanship or smooth and rated operation within a period of 12 months after the same has been put in service or 18 months from the date of dispatch of last consignment, whichever is earlier. The guarantee period for the replacement parts shall be 12 months starting from the date on which the replacement parts are commissioned. Acceptance by the BUYER or his inspectors of any equipment and materials or their replacement will not relieve the supplier of his/its responsibility concerning the above guarantee.

19. Indemnity
The supplier shall at all times indemnify the BUYER against all claims which may be made in respect of stores for infringement of any right protected by patent, registration of design or trade mark. Provided always that in the event of any claim in respect of alleged breach of patent, registered
designs or trade mark being made against the BUYER, the BUYER shall notify the supplier of the same and the supplier shall at his own expense either settle any such dispute or conduct any litigation that may arise there from.

The supplier shall not be liable for payment of any royalty, license fee or other expenses in respect of or for making of patents or designs with respect to which he is, according to the terms of the contract, to be treated as an agent of the Government for the purpose of making use of the patent or trade mark of fulfillment of the contract.

20. Spare Parts

The supplier shall furnish itemized and priced list of spare parts required for two years normal operation of the equipment along with the quotation.

21. Drawings

The supplier shall furnish the general arrangements and dimensional drawings in three sets within four weeks from date of placement of order.

22. Literature of Equipment

Following literature and documents for the equipment shall be supplied in five copies each free of cost along with the equipment,
(a) Operator's instructions (b) Service Manual (c) Illustrated and detailed parts catalogues (d) Specifications (e) A list of service tools required for routine servicing of the equipment.

23. Arbitration

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other questions, claim, right matter or thing whatsoever if any, arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or any contradictions or otherwise concerning the purchase order or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Chairman and Managing Director/General Manager (accepting authority) of Engineering Projects (India) Ltd. and if the Chairman and Managing Director/General Manager is unable or unwilling to act to the sole arbitration some other person shall be appointed by the Chairman and Managing Director/General Manager willing to act as such arbitrator. There will be no objection if the arbitrator so appointed is an employee of Engineering Projects (India) Ltd., and that he had to deal with matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in disputes or difference. The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such Chairman and Managing Director/General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as an arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it
was left by his predecessor. It is also a term of this contract that no person other than a person appointed by such Chairman and Managing Director/General Manager as aforesaid should act as arbitrator and if for any reason, that is not possible, the matter is not to be referred to arbitration at all.

Cases where the amount of award in claim is Rs. 50,000/- (Rupees fifty thousand only) and above, the arbitrator shall give reasons for the award.

Subject as aforesaid the provisions of the arbitration act 1940 or any statutory modification or re-enactment thereof and the rules made there under and for time being in force shall apply to the arbitration proceedings under this clause.

It is a term of the contract that the party invoking arbitration shall specify the disputes or dispute to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator may from time to time with consent of the parties enlarge the time, for making and publishing the award.

The work under the contract shall, if reasonably possible continue during the arbitration proceedings.

The arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing.

The arbitrator shall give a separate award in respect of each disputes or difference referred to him.

The avenue of arbitration shall be such place as maybe fixed by the Arbitrator in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding on all parties to the contract.

24. Court Jurisdiction

Disputes of any nature that may arise in connection with the execution of the contract shall be subjected to the jurisdiction of courts situated in Patna only.

------------------------
Check List for Evaluation & Selection of Suppliers / Vendors

1. Name

2. Address

3. Contact Person

4. Proprietor

5. a) Phone Nos.
   
   b) Fax Nos.

6. Items / Products

7. Manufacturer/ Distributor Dealer Stockist

8. Facilities Available
   a) Testing Facilities         In House         Through External Agency
      i) For Incoming materials
      ii) For In process
      iii) For Final Product
   b) Can Issue Test Certificate Yes No
   c) Details of Manufacturing Facilities
   d) Products being manufactured (Product Catalogues)

9. Annual Turn Over

10. Whether ISO 9000 certified or not

11. Whether IS certified or not

12. Reference list of important customers during last five years

13. Ability to give after sales service
14. Sample sent or not

To Incharge MMD  
EPI  
Designation  
Date

Signature of Vendor / Supplier  
Name

For use in EPI

Data has been collected over phone verbally.

Signature of person collecting data

Evaluation & Review

Yes  
No

Reviewed the details of vendor

Product is suitable

If Yes basis  
Sample checked

Specification checked

Suppliers details reviewed

Enjoys goodwill / reputation

Testing facilities  
adequate  
Enquiries  
from customers of sub suppliers

Past performance with EPI

Approved  
Reviewed

Signature  
Signature
### BILL OF QUANTITY

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>DESCRIPTION</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate (in Rs)</th>
<th>Amount (in Rs.)</th>
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<tbody>
<tr>
<td>1</td>
<td>Supplying of prefabricated pressed steel door conforming IS Code 4351, year 2003 manufactured from commercial mild steel sheet of 1.25 thickness including hinges, jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm or base ties of 1.25 mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to catch jamb including steel butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pretreatment of the surface as directed by Engineer-in-Charge</td>
<td>MTR</td>
<td></td>
<td>2200.00</td>
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<tr>
<td>1.1</td>
<td>Profile B as per the drawing and profile C as per IS 4351</td>
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<td></td>
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<tr>
<td>1.2</td>
<td>Profile C as per the Drawing and Profile E as per IS 4351.</td>
<td>MTR</td>
<td></td>
<td></td>
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<tr>
<td>1.3</td>
<td>Profile E as per the drawing and partition as per Is 4351</td>
<td>MTR</td>
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<td></td>
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<tr>
<td>2</td>
<td>Supplying of Prefabricated steel glazed doors, windows, and ventilators of standard rolled steel sections (F4B, F7D etc.), joints mitered and welded with 15x3 mm lugs 10 cm long including applying a priming coat of approved steel primer; excluding the cost of metal beading, Glazing and other fitting except necessary hinges or pivots as required.</td>
<td>Sqm</td>
<td></td>
<td>2900.00</td>
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<td>Door/Window</td>
<td>Sqm</td>
<td></td>
<td></td>
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<td>2.2</td>
<td>Composite Door/Windows</td>
<td>Sqm</td>
<td></td>
<td>1100.00</td>
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<tr>
<td>3</td>
<td>Providing and fixing steel beading of 10mm square hollow tube section with screws instead of galaxing clips and met, Sash putty in teel doors, windows, Ventilators and composite units with necessary arrangement of fixing 6mm thick glass.</td>
<td>Sqm</td>
<td></td>
<td>1700.00</td>
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<tr>
<td>3.1</td>
<td>Steel doors</td>
<td>Sqm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>Steel Windows</td>
<td>Sqm</td>
<td></td>
<td>2700.00</td>
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<tr>
<td>4</td>
<td>Supplying of prefabricated 1mm thick M.S sheet door with frame of 40x40x6mm angle iron and 3mm M.S gusset plates at the junction and corners, all necessary fittings complete including applying priming coat of approved steel primer. Using flat 30x6mm for diagonal braces and central cross piece.</td>
<td>Sqm</td>
<td></td>
<td>80.00</td>
<td></td>
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<td><strong>Total Amount (in Rs)</strong></td>
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Amount in word ( )