

# TIDEL PARK COIMBATORE LTD

(A JV of TIDCO,ELCOT,TIDEL & STPI )

## INTERNATIONAL TECHNO COMMERCIAL TENDER PART - II - BILL OF QUANTITES

SUPPLYING,INSTALLING,TESTING AND COMMISSIONING AND MAINTENANCE  
FAÇADE ACCESS SYSTEM INSTALLATION IN THE BUILDING COMPLEX OF  
INFORMATION TECHNOLOGY PARK AT VILLANKURICHI (SEZ AREA ), COIMBATORE

DUE DATE FOR SUBMISSION : ON OR BEFORE 26th MARCH 2010 AT 15.00 HOURS

### TO BE SUBMITTED TO :

The Chairman  
M/s. TIDEL Park Coimbatore Ltd  
( First Floor - TIDEL Park )  
4, Rajiv Gandhi salai,  
Taramani,Chennai - 600 113 - INDIA  
Telephone No : +91 44 22540500/501  
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### ARCHITECTS & ENGINEERS

M/s. C.R.Narayana Rao  
Architects & Engineers  
#10,Karpagambal Nagar,  
Mylapore,Chennai-600 004 - INDIA  
Tel No: 044-24991676 (4 lines )  
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### OWNER'S ENGINEER

M/s.TCE CONSULTING ENGINEERS LTD  
#73/1,Sheriff Centre,  
St.Marks Road,  
Bangalore -560001- INDIA  
Tel No: 080-66226000  
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### BID SUBMITTED BY:

M/s. \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

**FEBRUARY 2010**

**TIDEL PARK COIMBATORE LTD**  
(A JV of TIDCO, ELCOT, TIDEL & STPI)  
**BUILDING COMPLEX OF INFORMATION TECHNOLOGY PARK AT VILLANKURICHI (SEZ AREA),  
COIMBATORE**  
**FACADE ACCESS SYSTEM**  
**PREAMBLE TO THE BILLS OF QUANTITIES**

Unless otherwise specified in Bills of Quantities, Technical Specification and Tender Drawings, rate quoted for External Facade Access system works shall include the following:-

- 1 The Bills of Quantities must be read with the Drawings, Conditions of Contract and the Technical Specification and the tenderer shall be deemed to have examined the Drawings, Specifications, Conditions of Contract and to have acquainted himself with the Works to be done and the way in which they are to be carried out. This preamble to the Bills of Quantities shall form part of the Contract.
- 2 Notwithstanding that the work has been sectionalized every part of it shall be deemed to be supplementary to and complementary of every other part and shall be read with it or into it so far as it may be practicable to do so.
- 3 The description of an item shall be deemed to include all preambles, headings, sub-headings and references to other documents. The detailed description of work and materials, given in the Specification are not necessarily repeated in the Bills of Quantities.
- 4 The rates for all items shall be quoted and priced in Indian Rupees (INR) only prices inserted in this BOQ are full including cost of the work described and of the obligations set forth in the tender document. Rates should be quoted both in Figures & words in Columns specified. In case of discrepancy between the rates quoted in figures and in words, lower of the two shall be considered.
- 5 Tenderers are instructed to quote "rate only" for all QRO items without fail and not to enter any amount in the amount column. The rates quoted under QRO items is negotiable during the evaluation of the tender and the rationalized rate only will be considered if there is a need to operate QRO items during execution. Any percentage of Discount / Rebate offered by the tenderer during negotiation is applicable on all the quoted rate of the tendered items including 'QRO' items.
- 6 Each individual item in the Bill of Quantities is to be priced or if any items are not priced it is to be indicated under which item or items the value of the work has been included. If the tenderer omits to quote an item the cost of the work of such item shall be held to be spread over and included in the prices given for other items and the tenderer should compulsorily execute that item for full quantity given in the bill of quantities at free of cost, if the tenderer gets the work. However the successful tenderer shall quote the rates for such items and get approved by the Client/Architect/OE. In such case such items are not required to be executed full/part quantity, the successful tenderer shall pay appropriate amount for the quantity at the accepted rate to the Client/Architect/OE. Tenderer should not mark items as "included" when the rate is asked for. Exactly similar items in individual sections/sub-Head shall be priced similarly.

- 7 The rate entered against each item in the Schedule of Quantities shall be binding through the Contract and shall not be changed on account of any discrepancies or inaccuracies in the estimated quantities or any other cause. All prices quoted shall be firm for the entire duration of the contract. Client/Architect/OE reserves the right to call for analysis of rate to justify the quoted rate for that particular item / items. The bidder shall when contracting satisfy himself that the quantities are reasonably correct within the scope of work. Should he notice any discrepancy, he should at once notify the Client/Architect/OE, so that the matter can be examined, and if necessary altered before tenders close.
- 8 Cost of all materials, labour, equipment required, tools & plants required, conveyance, infrastructure facilities required shall be included in the quoted rates elsewhere. Contractor shall provide Steel pipe double Scaffolding in good and operational condition with in the Quoted Rates for their works..
- 9 For the sake of convenience the Bill of Quantities is sectionalized to cover one structure or a group of structures.
- 10 Unit Rates will be used as basis of payment for schedules and variation orders.
- 11 Rates and prices set against items are to be the full inclusive value of the finished work shown on the Drawings and/or described in the specification or which can reasonably be inferred there from and provision of plant, labour, supervisions, materials, erection, insurance cover for Third Party Liability and workmen compensation and other applicable insurance cover, maintenance, overheads and profits and every incidental and contingent cost and charges whatsoever excluding all taxes such as customs duty including counter veiling duty, surcharge etc as applicable, turn over tax, Excise duty, Central Sales tax, Entry taxes, Service tax for services provided within the processing zone and any other taxes, if any and every kind of temporary work executed or used in connection therewith and all the Sub Contractor's obligations under the sub contract and all matters and things necessary for the proper completion and maintenance of the Works. Tenderer shall quote his rates considering as SEZ Project.
- 12 Any change in the quoted rates due to any variation in price (ie.Increase In Price) shall not be considered and will be to the bidder's account.
- 13 The specification is intended to cover the supply of material and the execution of all works necessary to complete the entire scope of work. Should there be any details of construction or materials which have not been referred to in the Specification or in the Bill of Quantities and Drawings, but the necessity for which may reasonably be implied or inferred there from or which are usual or essential to the completion of all works in all trades, the same shall be deemed to be included in the rates and prices named by the bidder in the Bill of Quantities. If there is inconsistency between the Bill of Quantities, Technical Specification or Drawings, the description in the Bill of Quantities & Preamble shall prevail.
- 14 Water and power shall be sourced by the respective agencies from the predetermined point at site and will be charged on the basis of tariff fixed by the local authority.
- 15 Facilities such as office, storage etc. for the works shall be arranged by the respective contractor themselves in co-ordination with the Client/Architect/OE.

- 16 Providing and establishing required plants, machineries, equipments, scaffolding, staging, guard rails, temporary stairs, temporary access to the various places of the premises during execution stage, including maintenance of all the machineries, tools and plants, etc., required consumables for such equipments, till the completion of the work for proper execution of work within the quoted rates.
- 17 Any tests required including requisite materials shall be carried out as directed either at approved laboratory or at site at no extra cost.
- 18 All rules and regulations of Labour Department, Contract Labour Laws, Provident Fund and ESI and connected laws are to be complied with by the bidder within the quoted rates.
- 19 Providing security arrangements to guard the materials of the respective agency at all times till the completion of the work within the quoted rates.
- 20 The estimated quantities given in the bill of quantities shall be regarded as approximate only and shall not be deemed to gauge the extent or description of the works, or to limit the effect and meaning of any of the provisions of the contract documents.
- 21 The quantities in the Bill of quantities approximately indicate the total extent of work but may vary to any extent and may even be omitted or altered. On this account no claim shall be entertained by the Client/Architect/OE. Refer relevant tender clause for further details.
- 22 Client/Architect/OE reserves the right to itself the right of altering the drawings and nature of work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract. There shall be no limit on the scope and extent the changes that can be ordered by the Client/Architect/OE and the contractor shall not be entitled to any compensation or claim due to such change's) / order's) by the Client/Architect/OE. The contractor will only be paid for the actual quantity of works done payable at the agreed unit and rates.
- 23 Arranging, taking and providing colour photographs during construction period at various stages from different locations to show the progress of work during the execution period. The photographs shall be of acceptable quality and they shall be taken by a professionally competent commercial photographer with camera having the facility to record the date of photographs taken in the prints and negative. The Contractor shall supply five colour prints of each of the photographs taken to the standard maximum size mounted in albums of acceptable quality. Also the negative in 35mm size shall be supplied for each photograph. Each photograph in the album shall be suitably captioned.
- 24 No Land will be provided by the company to the contractor for constructing any structure, his labour, workman and supervisory camps, un-authorized hutments, canteen or teashops at site or within the premises. Contractor shall make his own arrangements for the same outside the Premises / boundary. These if any, shall be with the knowledge of and prior approval of the Client/Architect/OE.
- 25 In case of conflict among different sections/heads, precedence shall be given in the following order of descending priority.
  - a. Bills of Quantities & Preamble to the Bills of quantities.
  - b. Technical Specification.
  - c. IS code (Indian Standard).
  - d. Drawings

26 The abbreviations used in the Specification and Bill of Quantities shall be read as follows :

IS	- Indian Standard
A.S.T.M	- American Society for Testing and Materials
MM & mm	- Millimeter /s
CM & cm	- centimetre /s
L.M.(lm)	- Linear metre /s
RM (rm) / RMT (rmt)	- Running metre /s
KG (kg)	- Kilogram /s
Tone/t/MT	- Metric ton/s (1000 Kilogram's)
Dia.	- Diameter
Wt	- Weight
No.	- Number
Qty.	- Quantity
MUR	- Mauritian rupees
L.S	- Lumpsum.
P.S.	- Provisional sum
Q.R.O	- Quote rate only.
Drg.No.	- Drawing number
OE.	- Owners Engineer

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**BUILDING COMPLEX OF INFORMATION TECHNOLOGY PARK AT VILLANKURICHI**  
**(SEZ AREA), COIMBATORE**  
**FACADE ACCESS SYSTEM - COST ESTIMATE**  
**SUMMARY**

S. No	Description	Amount in INR
I	Supplying and Installation of Facade Access System.	
II	Comprehensive Maintenance Contract Fee For 5 Years After Defects Liability Period of Two years from the date of handing over.	
III	Cleaning Contract For 7 Years Including Defects Liability Period	
	<b>Total</b>	

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COIMBATORE**

**FACADE ACCESS SYSTEM**

**I. SUPPLYING AND INSTALLATION OF FACADE ACCESS SYSTEM.**

S.No	Description	Unit	Qty	Rate (in INR)		Amount (in INR)
				In Figures	In words	
<b>A</b>	<b>Accessible System</b>					
	<p>Design, supply, install and commission Facade Access system with the following equipments to make sure that the entire facade will be cleaned with the proposed system and to reach any shape and profile and the system shall with stand a minimum design wind pressure of 125 Kg/sqm conforming to IS 875-Part 3 and Lateral forces as per IS 1893 (Latest Revision) and the system support at parapet wall as specified. Bidder shall be responsible to determine the maximum design wind pressure and lateral forces, moments, stresses etc. applicable for the system. Negative / suction pressures if determined as per IS 875 - part - 3 and Lateral forces as per code IS 1893 shall make allowances as described in the code for corner effects on the system. Quoted rate shall include the following, but not limited to</p> <p>a) Designing the system, preparation of shop drawing for approval, supply, fabricate, erect as per approved drawing at all levels, elevation &amp; heights including conducting necessary test according to the codes etc complete.</p> <p>b) In general, system comprising Traverse Trolley (Permanent), Aluminium Davit system and Permanent track (Monorail) with two manual trolleys and to which suspend Articulated / Standard 2 Metre long cradle with Imported wire ropes and winches.</p> <p>c) Supply &amp; Install the necessary supporting brackets with SS anchor bolts, etc complete.</p> <p>d) All support system necessary for installation including scaffolding, hoists, minor civil works and any other works equipment related thereto for complete installation of the system as per specification and approved shop Drawing.</p> <p>e) Supply and anchoring the Soffit / Face mounted brackets at a minimum spacing specified elsewhere in the straight / curved portion and extra bracket if any required at corners / projected area shall be provided with hot dip galvanized steel anchor bolt assemblies with base Plates.</p> <p>f) Providing and anchoring brackets with suitable dia of Hilti make Anchor bolts permanently on the wall ceiling as specified in the approved shop drawing.</p>					

S.No	Description	Unit	Qty	Rate (in INR)		Amount (in INR)
				In Figures	In words	
	g) Obtain & submit certification of design by independent professional engineer / consultant along with final design and shop drawings. h) Manufacture / fabrication, transport and handling, installation / fixing, testing, commissioning and Insurance. i) Taxes, Duties, levies (Other than those from which TPCL is exempted) and imparting training to owners representatives in operation and maintenance of the system. j) Quoted rate shall included for maintenance of the all systems as specified in the conditions of contract during the defects liability period.					
	k) Quoted rate shall deemed to be included the above stipulated provision.					
1.00	Providing and fixing for complete system with Traverse Trolley (Permanent System) fixed on the parapet mounted combination bracket (Upper and Lower Brackets) and Hot rolled steel sections running on the bracket to move the trolley to the desired location and in accordance with the technical specification and drawing and in general the system shall include the following. - For Terrace level - I					
1.01	Hot dip galvanized Parapet mounted combination bracket (Upper and Lower Brackets) of suitable size and Long and to be fixed at a required spacing as per design with suitable dia & type of SS anchor fasteners at specified locations including grouting the surface with all other accessories etc complete.	Nos	250			
1.02	Hot dip galvanized Hot rolled sections "I" Beam of 200 x 125 mm or suitable size (Size given is indicative and the bidder shall confirm the size of member based on structural requirements) and to be fixed on the Upper and Lower brackets with suitable dia & type of SS bolts at specified locations including grouting the surface with all other accessories etc complete.	Rmt	925			
1.03	Aluminium traverse trolley (Permanent) and to be fixed on the Upper and Lower Beams to manually operate the system at specified locations with all other accessories etc complete. (Each set containing 2 Arm)	Set	10			
2.00	Providing and fixing Aluminium DAVIT (Portable System) of complete system to fixed on the parapet mounted with combination bracket at the desired location and in accordance with the technical specification and drawing and in general the system shall include the following. - <b>For Terrace level - II</b>					
2.01	Hot dip galvanized Parapet mounted combination brackets for Davit system (Upper and Lower Brackets) of suitable size and Long and to be fixed at a required spacing as per design with suitable dia & type of SS anchor fasteners at specified locations including grouting the surface with all other accessories etc complete.	Nos	85			

S.No	Description	Unit	Qty	Rate (in INR)		Amount (in INR)
				In Figures	In words	
2.02	Aluminium DAVIT (Portable) with the specified length and out reach and to be operated with the help of parapet mounted combination Bracket at specified locations with all other accessories etc complete. (Each set containing 2 Nos)	Set	4			
3.00	Providing and fixing Permanent track (Mono rail) of complete system with Aluminium extruded profile and fixed on the Soffit/Face mounted Brackets with base plates at the desired location and in accordance with the technical specification and drawing and in general the system shall include the following.					
3.01	Hot dip galvanized <b>Soffit mounted brackets</b> of suitable size and Long and to be fixed at a required spacing with necessary base plate as per design and with suitable dia & type of SS anchor fasteners at specified locations including grouting the surface with all other accessories.	Nos	35			
3.02	Hot dip galvanized <b>Face mounted brackets</b> of suitable size and Long and to be fixed at a required spacing with necessary base plate as per design and with suitable dia & type of SS anchor fasteners at specified locations including grouting the surface with all other accessories.	Nos	5			
3.03	Permanent Track system with Aluminium extruded profile with one or two trolleys and with end stops as required and to be fixed with the help of soffit / face mounted brackets with base plate at specified locations with all other accessories etc complete. Rate shall include for providing and fixing the required number of manual traverse roller assembly, to be mounted on track for traverse movement, made of MS with four roller arrangement and capable of taking a load of 4.9 KN. The roller can be removable from the track and can be operated from the cradle etc., Bidder shall be specified the make of track.	Rmt	55			
4.00	Providing and fixing of Cradle platform with complete system, the type and capacity given below and in general the cradle made out Aluminium tubes with Frame work and in accordance with the technical specification and drawing.					
4.01	Standard - 2 Metre Cradle platform with all other accessories etc complete.	Nos	2			
4.02	Standard - 1 Metre Cradle platform with all other accessories etc complete.	Nos	1			
4.03	Articulated - 2 Metre Cradle platform with all other accessories etc complete.	Nos	Qro			
5.00	Providing and fixing Electro hydraulic vertical platform with complete system and the working height of 16M and above of Faraone / Tractel make or equivalent approved make and in accordance with the technical specification and drawing.	Nos	1			
<b>Total C/o Summary</b>						

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**BUILDING COMPLEX OF INFORMATION TECHNOLOGY PARK AT VILANKURICHI (SEZ AREA), COIMBATORE**  
**FACADE ACCESS SYSTEM**  
**BILLS OF QUANTITIES**

**II. Comprehensive Maintenance Contract Fee For 5 Years After Defects Liability Period of Two years from the date of handing over.**

S.No	Description of Work	Lump sum fee in Rs
1	Maintenance of the system supplied, installed, Commissioned by the successful tenderer for 5 years beyond the Defects Liability Period (DLP) of 2 years. This will include start up / commissioning routine servicing, regular maintenance, preventive maintenance of equipments and components and break down repairs as and when occurred, ensuring that system does not remain out of service for a period not more than 8 hours in case of major breakdowns and one hour in case of minor breakdowns due to any unforeseen break down. The rate shall include all spares and consumables (except water & power) required for satisfactory maintenance of the installation and system, with out affecting the operation and cleaning cycle as specified in the other schedule.  Furnish separately the manpower proposed to the deployed.	
a.	First year after Defects liability period (DLP) (i.e. Third year from the date of handing over) - Quote Lump sum fee for one year	
b.	Second year after Defects liability period (DLP) (i.e. Fourth year from the date of handing over) - Quote Lump sum fee for one year	
c.	Third year after Defects liability period (DLP) (i.e. Fifth year from the date of handing over) - Quote Lump sum fee for one year	
d.	Fourth year after Defects liability period (DLP) (i.e. Sixth year from the date of handing over) - Quote Lump sum fee for one year	
e.	Fifth year after Defects liability period (DLP) (i.e. Seventh year from the date of handing over) - Quote Lump sum fee for one year	
<b>Total C/o to summary</b>		

**NOTE:**

The Escalation for Maintenance cost for any consecutive year should not exceed 5% value of the Maintenance Lumpsum rate quoted by the Tenderer.

Amount in words .....

PLACE:

DATE:

SIGNATURE OF TENDERERS

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**III. Cleaning Contract For 7 Years Including Defects Liability Period**

S.No	Description of Work	Lump sum fee in Rs
1	Cleaning of the system by using the supplied, installed, Commissioned system by the successful tenderer for 7 of years after the system taken over by the Employer and handed over to the Facade Cleaning agency. This will include supply of routine regular cleaning materials compatible with the Cladding materials like Glass, ACP, Granite, Louver etc, ensuring that the Building is being maintained neat and clean at all times. The rate shall include consumables (except water & power) required for satisfactory cleaning of the Facade system as per the cycle of cleaning specified in the tender.  Furnish separately the manpower proposed to be deployed for period wise as per cleaning cycle proposed and covering the external façade.	
a.	During first year of defects liability period after handing over - (Quote Lump sum fee for one year)	
b.	During second year of defects liability period after handing over - (Quote Lump sum fee for one year)	
c.	During third year after handing over - (Quote Lump sum fee for one year)	
d.	During fourth year after handing over - (Quote Lump sum fee for one year)	
e.	During fifth year after handing over - (Quote Lump sum fee for one year)	
f.	During sixth year after handing over - (Quote Lump sum fee for one year)	
g.	During seventh year after handing over - (Quote Lump sum fee for one year)	
<b>Total C/o to summary</b>		

Amount in words .....

PLACE

DATE:

SIGNATURE OF TENDERERS

**NOTE : Refer Technical specification for details of cleaning area and cycle of cleaning: Total Façade area with Louvers - 19,720 Sqm.**

**Note : 6 cycles per year shall be considered to ensure the cleaning at 2 months cycle. Methodology for cleaning and cleaning agent and consumables compactable with external facade finishes on the glass, ACP and other materials details shall be provided along with Bid.**

- 1 Structural Glazing with Double / Single Glass – 7,195 Sqm.
- 2 Spider Glazing with fin assembly system - 190 Sqm
- 3 Aluminium composite panels Cladding on the Dry wall as well as on the Structurally Glazed frame work on the Spandrel Panel and Canopy – 10,190 Sqm.
- 4 Glass canopy with articulated bolts – 120 Sqm.
- 5 Granite Cladding on the External Surface - Dry fixing with S.S.Clamps & Anchor bolts – 1,215 Sqm.
- 6 Aluminium Louvers on the Structural Glazing - 810 Sqm.

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**LIST OF TENDER DRAWINGS**

**FACADE ACCESS SYSTEM**

Sl.No.	DESCRIPTION
1	GROUND FLOOR PLAN
2	TYPICAL FLOOR PLAN
3	TERRACE 1 LEVEL PLAN
4	TERRACE 2 LEVEL PLAN
5	WALL SECTIONS - SECTION - AA
6	WALL SECTIONS - SECTION - BB
7	WALL SECTIONS - ENTRANCE SIDE - 3NOS ( Grid 6-7,Grid 7-8,Grid 2-3)
8	WALL SECTIONS - SOUTHSIDE
9	WALL SECTIONS - NORTHSIDE
10	WALL SECTIONS - REAR SIDE- 2NOS ( Grid 5-6,Grid 9-10 )