



SEMI-CONDCUTOR LABORATORY

(Department of Space, Govt. of India)
Sector 72, SAS Nagar 160071 Pb. (India) Ph: 91-172-2237401-10

CONSTRUCTION & MAINTENANCE DIVISION

REF NO.SCL/CMD/Q-27/2010 DATED 29/1/2010

NOTICE INVITING TENDER

1. SEMI-CONDUCTOR LABORATORY (SCL) INVITIES BIDS FOR “MINOR CIVIL AND REPAIR & MAINTENANCE WORKS AT SCL, S.A.S. NAGAR”.
2. ESTIMATED COST = Rs. 15,24,551.00
EMD = Rs. 30,491.00
3. Notice Inviting Tenders (NIT), General Terms & Conditions and Bill of Quantities (BOQ) hereunder constitute the Tender Document. The tender document can be purchased from the Office of Head, CMD, SCL on any working day from 03/02/2010 to 24/02/2010 against payment of Rs.565/- in the shape of demand draft in favour of Semi-Conductor Laboratory payable at Mohali/Chandigarh. Contractors can also download the tender document from SCL’s website www.sclindia.com . Contractors down loading the tender document from SCL website should enclose Demand Draft for Rs.565/- along with their bid.
4. Sealed bids shall be received upto 1430 hrs (2:30 pm) on 25.02.2010 in the office of Head (CMD), SCL, S.A.S. Nagar and shall be opened at 1500 hrs (3:00 pm) on the same day (i.e. 25 .02.2010).

HEAD (CONSTRUCTION & MAINTENANCE DIVISION)
SEMI-CONDUCTOR LABORATORY
SECTOR – 72, SAS NAGAR, PUNJAB
FAX (0172)-2236085
PHONE: (0172) 2237401-09 EXT.403,585
Website – www.sclindia.com

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**SEMI-CONDUCTOR LABORATORY
CONSTRUCTION & MAINTENANCE DIVISION
SAS NAGAR**

NOTICE INVITING TENDER (NIT)

NAME OF WORK: “MINOR CIVIL AND REPAIR & MAINTENANCE WORKS AT SCL, S.A.S. NAGAR”.

1.0 Semi-Conductor Laboratory (SCL) invites sealed item rate tenders from contractors registered with Government Departments/agencies such as CPWD,PWD, Railways, MES etc., Public Sector Undertakings and experienced contractors for the work of **“MINOR CIVIL AND REPAIR & MAINTENANCE WORKS AT SCL, S.A.S. NAGAR”.**

2.0 Last date for submission of the bids is 25.02.10 (upto 1430 hrs) which shall be opened on the same day at 1500 hrs. at SCL, S.A.S. Nagar (Mohali) in presence of the representatives of the contractors who wish to be present. The bids shall be submitted and opened in the office at following address:

Head (Construction & Maintenance Division),
SEMI-CONDUCTOR LABORATORY ,
Sector 72, S.A.S. Nagar – 160 071
(Near Chandigarh)
Fax (0172)-2236085
Phone: (0172)- 2237401-09 Ext.403,585

3.0 Contractors who fulfil the following criteria shall be considered by SCL for pre-evaluation/technical evaluation.

Contractors registered with any one of the agency/department mentioned at Clause 1.0 above/experienced contractors meeting the following criteria are eligible to apply:-

- i) Contractors/firms should have successfully completed during last 7 years ending last day of the month previous to the one in which the bids are invited two similar works costing not less than Rs.9.15 lakh each or one similar work costing not less than Rs.12.20 lakh. Similar work in this case will mean Civil Maintenance works /Construction Works.
- ii) Average annual financial turnover during the last 3 (three) years ending 31st March of previous year should be at least Rs.4.58 lakh.

3.1 a) **Procedure for opening of the Bid:**

The following procedure shall be adopted for submission of tenders by the bidders. The envelopes shall be separately sealed and are to be submitted as follows:

Envelope I: To be superscribed “Earnest Money” and to contain Earnest Money in the form of Demand Draft as required in Clause 1 of the General Terms & Conditions hereunder .

Envelope II: To be superscribed “TECHNICAL CONDITIONS OF BID AND UNPRICED COMMERCIAL BID” (**Part – B**). and to contain deviations, if any, from the conditions given in the Tender Document. Unpriced schedule of items, proposal sheets/forms to be put in this envelope. Contractors shall also enclose the following documents in this envelope which will be considered for prequalification.

- i) Registration Certificate.
- ii) Details of the contracts executed during last 7 (seven) years with complete name and address of the clients, scope of work, value of the work executed, date of commencement, date of completion, completion certificates from client(s).
- iii) Audited balance sheets for the last three years.
- iv) Organisation Profile
 - Organisational Profile/Structure, Staff strength including Bio-data of the key personnel; details of the branch offices, if any.
 - List of infrastructure facilities (machinery/implements) available.
 - A copy of Partnership Deed (in case of partnership firms) or Memorandum and Articles of Association (in case of Private Limited/Limited/Public Limited companies).
 - Proof of registration, if any, with other Govt. Depts. and other reputed organizations as their approved Contractor.
 - Details of litigation, if any, with any client during the past 7 years.
 - Details of the firm/company having undergone any change in ownership, constitution, etc. during the past 7 years. Only the direct experience of the tenderer/firm will be considered;
 - Latest Solvency Certificate.
 - Details of accident history for the last 7 years.

Bidders are to ensure that no price whatsoever is put anywhere in envelope II.

Envelope III: To be superscribed “Priced Commercial Bid” and to contain price figures duly filled in and signed (**PART C**).

b) **Procedure for opening of the Bid:**

- Envelope No. I will be opened first on the due date of opening at 1500 hrs (3:00 pm) and EMDs shall be checked. Bids not accompanied with EMD as per clause 1.0 (General Terms & Conditions) shall be rejected. Envelope II of the bidders fulfilling the EMD condition shall thereafter be opened and Envelope No. III will be kept for opening at a later date after technical evaluation of the bids.
- The pre-evaluation/ technical evaluation of the bidders shall be done by the SCL. Technical evaluation of the only those bidders shall be carried out who meet the stipulated pre-evaluation criteria mentioned at Clause 3 above. Based on the technical evaluation report, clarification meeting, if required, will be held with bidders to bring them at par techno-commercially. Bids not meeting the technical specifications will be rejected. Envelope No. III (priced commercial bid) of such bidders shall not be opened.
- At the end of discussions, if required, bidders will be given an opportunity to submit another sealed cover envelope no. IV, superscribed 'Revised Commercial Bid,' which will supersede the Envelope III. After receipt of this envelope-IV, Envelope No. III or IV whichever is the latest of approved /qualified tenderer will be opened on a date convenient to SCL for evaluation.

- 4.0 SCL reserves the right to accept or reject any bid without assigning any reason thereof.
- 5.0 Bids shall remain firm and valid for acceptance for a period of 90 days from the date of submission.
- 6.0 SCL does not bind itself to accept the lowest bid and it reserves the right to accept or reject any or all the bids either in whole or in part without assigning any reason (s) thereof.
- 7.0 The rates quoted by the contractors shall be all inclusive covering material, labour, taxes, Works Contracts Tax (WCT), VAT, statutory levies, carriage, octroi etc.
- 8.0 The rates shall be quoted in the enclosed Bill of quantities and duly signed by the contractor.
- 9.0 All erasures and alterations made while filling the tender must be attested by the initials of the bidders. Over-writing of figures is not permitted. Failure to comply with either of these will render the tender void. No request for any change in terms and conditions after the opening of tenders will be entertained.

- 10.0 The Duration of this Maintenance work is for 18 (eighteen) months from the 7th date of issue of Work Order by SCL.
- 11.0 Contractors should acquaint themselves with the actual site conditions before submitting their bids.
- 12.0 Successful contractor will be required to enter into a contract agreement on a non-judicial stamp paper of appropriate value with SCL in the prescribed performa, for execution of the aforementioned work.

HEAD (CMD)

PART-B

SEMI-CONDUCTOR LABORATORY CONSTRUCTION & MAINTENANCE DIVISION SAS NAGAR

**NAME OF WORK: “MINOR CIVIL AND REPAIR & MAINTENANCE
WORKS AT SCL, S.A.S. NAGAR”.**

GENERAL TERMS AND CONDITIONS

1.0 EARNEST MONEY DEPOSIT

The Earnest Money Deposit (EMD) is Rs. 30,491.00 (Rupees Thirty thousand four hundred ninety one only). The bidder shall pay this sum in the form of a Demand Draft issued by a scheduled bank in favour of Semi-Conductor Laboratory payable at Mohali/Chandigarh. The EMD of unsuccessful bidders will be returned to them without any interest. EMD of the successful bidder shall be adjusted towards the retention money in the running account bill.

2.0 TECHNICAL SPECIFICATIONS

The work shall be carried out strictly in accordance with the description of items given in the Bill of Quantities (BOQ) and as per latest CPWD specifications in the best workman like manner as per the instructions of Engineer-in-Charge. The Engineer-in-Charge (SCL's representative (s) responsible for the work) shall be entitled to have tests carried as specified in the contract for any material supplied by the contractor at the cost of the contractor and the Contractor shall provide at his expense all the facilities which the Engineer-in-Charge may require for the purpose.

3.0 TERMS OF PAYMENT

- i) Running Account (R/A) bills shall be paid based on measurements of the actual work executed, jointly taken by the contractor and SCL representative and duly checked and certified by the Engineer-in-Charge.
- ii) 5% of the value of the work executed shall be deducted from Running Account Bill as retention money and the same will be released along with the final bill.

- iii) The payment of R/A Bills and final bill shall be made upon compliance of statutory requirements like ESI and PF by the contractor in respect of his workmen and employees deployed at SCL site.
- iv) Final bill complete in all respects including material reconciliation statement, test certificates (wherever applicable) etc. shall be paid within sixty (60) days of satisfactory completion/taking over of the work duly certified by the engineer-in-charge. Contractor shall make no further claims after submission of the final bill. Claims put up by Contractor after final bill shall be deemed to have been waived and extinguished and shall not be considered by SCL.

4.0 PERFORMANCE BANK GUARANTEE

The Contractor shall provide SCL with a Performance Bank Guarantee for the due and faithful performance of contract for a sum of 5% of the contract price within 2 weeks of issue of Work Order by SCL. The said guarantee shall be in form of Bank Guarantee from any scheduled bank in the format provided by SCL and shall be valid until expiry of the duration of the contract.

5.0 10 YEARS GUARANTEE OF WATER PROOFING TREATMENT

Contractor shall guarantee the water proofing treatment executed under this contract for a period of 10 years from the date of satisfactory completion of the work, against any defect which may develop or may be noticed in the work. Contractor shall take immediate action to rectify such defects on being notified by SCL. 10% of the value of work done shall be retained by SCL from contractor's final bill for the said guarantee period of 10 years or alternatively Contractor may submit a Bank Guarantee for the said value and period in the format provided by SCL.

6.0 CONTRACT DURATION

The duration of the contract is for a period of EIGHTEEN (18) months from the 7th day of issue of Work Order by SCL. The prices under this contract shall remain firm for the entire contract duration including the extended period, if any. No escalation shall be applicable under the contract.

7.0 MATERIALS

All materials used in the work shall conform to the specifications as mentioned in the BOQ and approved by the Engineer-in-Charge. Contractor shall submit test certificates in respect of material procured by him for incorporation in the work.

8.0 ARRANGEMENT AND SAFETY OF LABOURS

- a) Contractor shall make his own necessary arrangement for labour hutment, staff quarters in respect of his workers to be deployed on the work.
- b) Contractor shall at his own expenses arrange for the safety in respect of all the labour directly or indirectly deployed for the performance of the works. The contractor shall be fully responsible for the safety of all his workmen deployed on the work and ensure that all safety measures/precautions are adhered to in accordance with provisions of the relevant Safety Codes. SCL shall not be responsible for payment of any compensation to the contractor for any injury(ies) that his workmen or any other employee might suffer during the performance of the contract.
- c) The contractor shall not sublet, transfer or assign the contract or any part thereof.

9.0 VARIATION

Contractor shall carry out the work upto any variation in the total value of the contract at the same rate, terms and conditions. The quantities of various items mentioned in the schedule of items may vary to any extent or deleted altogether as decided by SCL. The rates for various items shall remain the same irrespective of the extent of variation in the quantities of individual items.

10.0 ESCALATION

The rates quoted by the contractor shall remain firm and will not be subject to any escalation for the contract duration as well as for the extended period, if any.

11.0 SITE CLEARANCE

Contractor shall clear all waste material and left out material from the site after completion of work. No extra payment on account of this shall be made to the contractor by SCL. The contractor shall treat all materials obtained during the work at site as SCL property and such materials shall be handed over to SCL.

12.0 TAXES & DUTIES

The rates quoted against various items in the BOQ shall be inclusive of all duties and taxes, government levies including sales tax, octroi, royalties, freight, excise duty, VAT etc. **Works Contract Tax**, as applicable, shall be borne by the contractor. No extra payment shall be made by SCL on account of taxes & duties

or any other govt. levy in the event of any increase in the same during the currency of the contract. The contractor shall also indemnify SCL against levy of any such taxes etc. In the event of SCL being assessed for any of the said taxes, levies etc, SCL shall have the right to recover the total amount so assessed from the Contractor's dues and Contractor shall also be responsible for all costs and expenses that may be incurred by SCL in connection with any proceedings or litigation in respect of the same.

13.0 INCOME TAX

Income Tax, as applicable, as per government norms on the gross amount billed or as may be permitted/required under Income Tax Act, shall be deducted from contractor's bills before release of payment by SCL.

14.0 ESI/PF

The Contractor will have to deposit ESI/PF contributions in respect of their employees/labourers to be engaged for the work, under their own Code Number.

15.0 COMMENCEMENT OF WORK

The contractor shall commence the work within 7 (Seven) days of the issue of Work Order by SCL. Failure to commence the work within this period shall result in cancellation of the work order and forfeiture of the EMD. A detailed agreement on a non-judicial stamp paper of appropriate value shall be entered into with the party within 15 (fifteen) days of issue of the work order.

16.0 TIME SCHEDULE, LIQUIDATED DAMAGES

Time being the essence for completion of the work under the contract, the contractor must ensure that the works entrusted to him by SCL from time to time during the duration of contract are carried out in a timely manner, as per SCL's requirements and needs. Delay in execution of the works for reasons other than force majeure, shall attract liquidated Damages which shall be deducted from the contractor @ 0.5% per week subject to a maximum of 10% (ten percent) of the contract price.

17.0 ADDITIONAL/ALTERED OR SUBSTITUTED ITEMS

If at any time after the commencement of the work, the Engineer-in-Charge, for any reason whatsoever wants any item(s) not mentioned in the BOQ to be executed by the contractor, the rate for such items shall be worked out as under:-

- i) The rates for the additional, altered or substituted work not specifically provided in the contract for the work, will be derived from the rates of a similar class of work as are specified in the contract for the work.
- ii) If the altered, additional or substituted work includes any work for which no rate is specified in the contract for the work and which cannot be derived from similar class of work in the contract, then rates for such work shall be worked out on the basis of rates in CPWD DSR-2007 + 21% plus or minus the percentage which the total tendered amount bears to the estimated cost of the entire work put to tender.
- iii) If the rates for the altered, additional or substituted work cannot be determined in the manner specified in sub clauses (i) & (ii) above, then the rates for such work shall be worked out on the basis of rates of CPWD, DSR-2007 + 21% plus or minus the percentage which the total tendered amount bears to the estimated cost of the entire work put to tender, provided always that if the rate for a particular part or part of the item is not in the schedule rates, the rate for such part or parts will be determined by the Engineer-in-Charge on the basis of the prevailing market rates when the work was done.
- iv) If the rates for the altered, additional or substituted work cannot be determined in the manner specified in sub clauses (i) to (iii) above, then the Contractor shall within 15 days of the date of receipt of order to carry out the work inform Engineer-in-Charge of the rate at which he proposes to claim for the item of work, supported by analysis of rate or rates claimed, and the Engineer-in-Charge shall determine the rate or rates on the basis of prevailing market rates and pay the Contractor accordingly. However, the Engineer-in-Charge by notice in writing will be at full liberty to cancel his order to carry out the work and arrange to carry it out in such manner, as he may consider fit and advisable. But under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

18.0 INSURANCE

Contractor shall arrange at his cost 'All Risk Insurance Policy' for the work which shall remain valid till successful completion of the entire contract.

19.0 ISSUE OF MATERIALS AND RECOVERY THEREOF:

The following materials shall be issued by SCL to the contractor for incorporation in the work. Contractor shall arrange transportation of these materials from SCL stores located within SCL complex to the work site at his own cost.

S. No	Description of Material	Issue Rate
1.	Cement in 50kg bag	Rs.273/-per bag
2.	Tor steel of all length and sizes	Rs.38417/- per MT
3.	MS structural steel comprising of angles, channels, girders, plates, flats etc. of all sizes and lengths.	Rs.37510/- per MT
4.	Paints (enamel/synthetic), water proofing paint, lime for white washing, pigments, fevicol etc.	Free of cost. However, ivory paper, brushes required for application of paint/ white washing scaffolding etc., will be arranged by the contractor at his own cost.

The theoretical consumption of cement shall be on the basis of coefficients for consumption of cement as per CPWD SPECIFICATIONS. Permissible wastage for cement shall be $\pm 3\%$ while that of steel shall be $\pm 5\%$ (3% accountable and 2% unaccountable). Open cement bags and cut pieces of steel below 3 meter for tor steel and 1.5 meter for structural steel shall not be taken back by SCL and shall be considered as wastage and recovered at the stipulated issue rates from the contractor subject to these being within the permissible limits. In case the actual consumption is more than the theoretical consumption plus permissible wastage, the excess consumption of cement and steel will be recovered from the contractor at penal rates which will be twice the stipulated issue rate.

20.0 ELECTRICITY AND WATER

Construction water and power shall be provided by SCL at one point only. Any further distribution will be the responsibility of Contractor. All temporary wiring and laying of pipes from the supply point for electricity and water respectively will be the responsibility of Contractor. Electricity charges shall be on metered basis (meter to be arranged by the contractor) and charges shall be as per the prevailing rates of Punjab State Electricity Board (PSEB).

21.0 DEFECT LIABILITIES PERIOD

The Contractor shall be responsible to make good and remedy at his own expense any defect which may develop or may be noticed in the works executed under the contract within Twelve (12) months from the expiry of the contract duration including extended period, if any.

22.0 DISPUTE SETTLEMENT

If any dispute or differences of any kind whatsoever were to arise between the Engineer-in-charge, SCL and the Contractor regarding the following matters namely:-

- i) The meaning of the specifications, designs, drawings and instructions herein before mentioned.
- ii) The quality of workmanship or materials used on the work and
- iii) Any other question, claim, right, matters, thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions or orders, or those conditions or failure to execute the same whether arising during the progress of the work after the completion, termination or abandonment thereof, the dispute shall, in the first place be referred to the Head (CMD), SCL with the details of claims, justification for the same with supporting documents such as analysis of rates, cash vouchers and other relevant particulars. Head (CMD), SCL shall within a period of sixty days from the date of being requested by the Contractor to do so or from the date of furnishing of required particulars whichever is later shall give written notice of his decision to the contractor.

If the Head (CMD), SCL fails to give notice of his decision within a period of 60 days from the date of receipt of (i) the Contractor's request in writing for settlement of dispute or difference as aforesaid or ii) relevant particulars from the Contractor in support of his claims whichever is later.

OR

If the decision of the Head (CMD), SCL is not acceptable to the Contractor, he may approach the Director, SCL within a period of 15 days from the date of expiry of 60 days specified above. Director, SCL shall within a period of further 90 days from the date of receipt of request from the contractor or from the date of receipt of relevant particulars from the contractor in support of claims whichever is later give notice of his decision(s) to the Contractor.

- b) Subject to other forms of settlement hereinafter provided the Director, SCL decision in respect of every dispute or difference so referred shall be final and binding upon the Contractor. The said decision shall forthwith be given effect to and Contractor shall proceed with the execution of the work with all due diligence.
- c) Remedy
 1. When Director, SCL is not acceptable to Contractor or
 2. Director, SCL fails to give decision within 90 days.

In case the decision of the Director, SCL is not acceptable to the Contractor, fails to give decision within 90 days specified above, the Contractor may approach the Law Court at S.A.S. NAGAR, (PUNJAB) for settlement of dispute after giving due written notice in this regard to the Director, SCL.

Contractor to execute and complete work pending settlement of dispute.

- d) Whether the claim is referred to the Head (CMD), SCL/ Director, SCL or to the Law Courts, as the case may be, the Contractor shall proceed to execute and complete the works with all due diligence pending settlement of the said dispute or differences.

Obligations of the Engineer-in-Charge and Contractor shall remain unsettled during considerations of dispute.

- e) The reference of any dispute or dispute(s) or difference(s) to Head (CMD), SCL or Director, SCL or the Law Court may proceed notwithstanding that the work shall then be or be alleged to be complete provided always that the obligations of the Engineer-in-charge and the Contractor shall not be attend by reason of the said dispute or difference being referred to Head (CMD), SCL/ Director, SCL or the Law Court during the progress of the works.

**Signature of Contractor
with seal**

PART C**SEMI-CONDUCTOR LABORATORY
CMD, S.A.S.NAGAR****SCHEDULE OF QUANTITIES****FOR****MINOR CIVIL AND REPAIR & MAINTENANCE WORKS****Ref No: SCL/CMD/Q-27/2010 dated 29.1.2010**

SR. NO.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS)	AMOUNT
1.	Earth work in excavation by mechanical means (Hydraulic excavator/Manual means) over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed a) Depth not exceeding 1.5m from Ground Level	100	CUM		
2.	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5m	40	CUM		

3.	Supplying and filling in plinth with fine sand under floors including, watering, ramming consolidating and dressing complete (Jamuna sand replaced with locally available fine sand)	20	CUM		
4.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering – All work up to plinth level. i) In Foundation a) 1:2:4 (1 Cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) b) 1:5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40 mm nominal size) ii) In Superstructure: a) 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	10 10 05	CUM CUM CUM		
5.	Centering and shuttering including propping etc. and removal of form work at any level for: b) Foundations, footings, bases of columns, etc. for mass concrete a) Suspended floors, roofs, landings, balconies and access platform c) Lintels, beams, plinth beams, girders, bressumers and cantilevers	30 20 20	SQM SQM SQM		

09.	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in: a) Cement mortar 1:6 (1 cement:6 coarse sand)	20	CUM		
10.	Half brick masonry with F.P.S. brick of class designation 75 in foundations and plinth in Cement mortar 1:3 (1 cement: 3 coarse sand)	50	SQM		
11.	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non-decorative type, core of block board construction with frame of Ist class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: a) 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	10	SQM		
12.	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1000	KG		
13.	Cement concrete flooring 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate finished with a floating coat of neat cement slurry including cement slurry, but excluding the cost of nosing of steps etc. complete. a) 40mm thick flooring (with 20mm nominal size stone aggregate)	100	SQM		
14.	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.35 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	30	SQM		

15.	Providing and laying ceramic glazed floor tiles 300 x 300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make in colours such as white, ivory, Grey, Fume Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 Cement: 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	50	SQM		
16.	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design: a) in 75x75mm deep chase	25	RM		
17.	Providing and laying brick tiles of class designation 100 over mumty, roofs grouted with cement mortar 1:3(1 cement: 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12mm layer of cement mortar 1:3(1 cement: 3 fine sand) and finished neat	100	SQM.		
18.	Laying brick tiles of class designation 100 over mumty roofs grouted with cement mortar 1:3 (1 cement:3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over a 12mm layer of cement mortar 1:3 (1 cement:3 fine sand) and finished neat (Cost of brick tiles excluded) With F.P.S. brick tiles	80	SQM		
19.	12 mm cement plaster of mix: a) 1:6 (1 cement:6 fine sand)	200	SQM		
20.	6 mm Cement Plaster of mix 1:3 (1 cement: 3 fine sand)	50	SQM		
21.	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement: 3 fine sand) a) Flush/Ruled/Struck or weathered pointing	100	SQM		

22.	Pebble dash plaster upto 10m height above ground level with a mixture of washed pebble or crushed stone 6mm to 12.5mm nominal size dashed over and including fresh plaster in two layers under layer 12mm cement plaster 1:4 (1 cement: 4 coarse sand) and top layer 10mm cement plaster with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 10% finely ground hydrated lime by volume of cement ebble dash plaster upto 10m height	20	SQM		
23.	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 meters lead:- a) With cement mortar 1:4 (1 cement: 4 fine sand)	60	SQM		
24.	Repairs to plaster of thickness 12mm to 20mm over roofs in patches of area 2.5 sq. meters and less including cutting the patch in proper shape ,preparing the joints and re-plastering complete including disposal of removed material within SCL Complex. a) With cement mortar 1:4 (1 cement: 4 coarse sand)	100	SQM.		
25.	Fixing chowkhats (Steel/Wooden) in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement:3 coarse sand : 6 graded stone aggregate 20 mm nominal size) painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead: a) Door Chowkhats b) Window Chowkhats	05 10	EACH EACH		

26.	Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-In-Charge a) 1:3:6 or richer mix b) 1:4:8 or leaner mix	50 10	CUM CUM		
27.	Demolishing R.C.C. work manually/by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-In-Charge	10	CUM		
28.	Extra for cutting reinforcement bars manually/by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. Work) as per direction of Engineer-in-Charge	20	SQM.		
29.	Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-In-Charge. a) In Cement mortar	10	CUM		
30.	Removing mortar from brick and cleaning bricks including stacking within a lead of 50m (stacks of cleaned bricks shall be measured) a) From brick work in cement mortar	5000	NOS.		

31.	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhtas, architrave, holdfasts etc. complete and stacking within 50 meters lead: a) Of area 3 sq. meters and below b) Of area beyond 3 sq. meters	10	NOS.		
		10	NOS.		
32.	Dismantling steel work in built up sections in angles, trees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 meters lead.	100	KG.		
33.	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 meters leads	80	SQM		
34.	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 meters lead	100	SQM		

35.	<p>Dismantling manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50meters lead as per direction of Engineer-in-Charge</p> <p>a) Water bound macadam</p> <p>b) Bituminous portion</p>	50	SQM		
36.	<p>Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed with 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete (cost of posts, struts, earth work and concrete work to be paid for separately) Payment to be made per meter cost of total length of barbed wire used.</p> <p>a) With G.I. barbed wire</p>	200	RM		
37.	<p>Fixing welded steel wire fabric (supplied by SCL free of cost) fencing with posts of specified material and of standard design placed and embedded in cement concrete block 45x45x60cm of mix 1:5:10 (1 cement:5 fine sand:10graded stone aggregate 40mm nominal size) every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete block 70x45x50cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6mm bar nibs with G.I. binding wire (cost of steel posts, painting, earth work in excavation and concrete to be paid for separately)</p>	300	SQM.		

38.	<p>2 cm premix carpet surfacing with 1:8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm and 52 kg. and 56 kg. of hot bitumen per cum of stone chippings of 13:2 mm and 11.2 mm size respectively including a tack coat with hot straight run bitumen including consolidation with road roller of 6 to 9 tonne capacity etc. complete: (tack coat to be paid for separately)</p> <p>a) With paving Ashphalt 80/100 heated and then mixed with solvent @70 gms /Kg. of Asphalt.</p>	50	SQM		
39.	<p>Providing and fixing GI Pipes complete with GI fittings and clamps including cutting and making good the walls etc.</p> <p>a) 15mm dia nominal bore</p> <p>b) 20mm dia nominal bore</p>	50	RM		
		50	RM		
40.	<p>Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement:2 fine sand) including testing of joints etc. complete.</p> <p>a) 250 mm dia R.C.C. Pipe</p>	20	RM		
41.	<p>Grading roof for water proofing treatment with:</p> <p>a) Cement concrete 1:2:4 (1 cement : 2 Course sand : 4 graded stone aggregate 20mm nominal size)</p>	10	CUM		

42.	<p>Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. By the same membrane manufactured of density at 25°C, 0.87 – 0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/Sqcm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150 °C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorized applicator of the manufacturer of membrane:</p> <p>a) 3 mm thick</p> <p>Note: Contractor shall Guarantee the Water proofing treatment for a period of 10 years from the date of satisfactory completion of the entire work (Refer clause 5.0 of General term and Condition.)</p>	500	SQM.		
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43	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations:				
	a) Applying and grouting a slurry coat of neat cement using 2.75 kg. / sq.m. of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab including cleaning the surface before treatment:				
	b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs false lines:				
	c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645.				

	d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fiber cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square 3mm deep				
	e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge.				
	With average thickness of 120 mm and minimum thickness at khurra as 65mm	400	SQM		
	The Contractor has to submit a Performance Bank Guarantee of 10% of the value of the work under item No. 43 for a period of 10 years.				
44.	Providing and fixing of asbestos cement 6mm thick corrugated sheet roofing with GI, J or L hooks, bolts and nuts 8mm dia, GI plain and bitumen washers complete	200	SQM		
45.	Providing and fixing of 4 mm thick AC plain sheets in facias etc. with CI, J or L hooks, bolts and nuts (8 mm dia) with plain and bitumen washer complete.	50	SQM		
46.	Fixing MS angle posts on walls/ground and embedding in PCC 1:2:4 of required size including making holes in angles to receive barbed wire/chain link fencing of required size upto a height of 2.5 meters. (Fabrication of angle and PCC to be paid separately.	25	NOS		
47.	Providing and applying one coat of bitumen of grade 85/25 over roof surface @ 1.25 Kg. per sqm at all elevation as per direction of Engineer-In-charge	100	SQM		

48.	Removing existing pre-cast PCC slabs from foot path, road berms etc. and relaying the same including leveling the surface by laying a layer of fine sand upto 2" under the PCC slab and pointing the joints with cement mortar of mix 1:3 (1 cement: 3 coarse sand)	100	SQM		
49.	Extra for disposal of building rubbish / malba comprising tarefelt, boulders, old bricks, disposal from concrete dismantling, scrap steel etc. outside the SCL Complex as per direction of the Engineer-in-Charge	50	CUM		
50.	Painting with synthetic enamel paint and Aluminium paint of required shade to give an even shade on all existing surface at all elevations including cleaning/scrapping existing painted surface with ivory paper etc. before application of fresh coat of paint (Paint, thinner to be provided by SCL free of cost) a) Old work on doors, windows, corrugated GI sheets, shutters, panels, weld mesh, wire mesh etc. (Minimum two coats)	4000	SQM		
51.	Finishing walls with water proofing cement paint of required shade to give an even shade at all elevations including cleaning of existing surface of algae, stairs etc. (Minimum two coats) (water proofing cement paint to be supplied by SCL free of cost)	1500	SQM		
52.	White washing/colour washing with lime and neel, pigment mixed with fevicol @ 100 gm per kg of lime to give even shade as per direction of Engineer in-charge at all elevations. Surface to be first scrapped and cleaned before the application of white wash/colour wash (lime, fevicol, neel etc. to be supplied by SCL free of cost) (Minimum two coats)	2000	SQM		
53.	Applying one coat of Red Oxide Primer on all steel surfaces (Primer, thinner to be supplied by SCL free of cost)	50	SQM		

54.	Painting synthetic enamel paint (paint, thinner to be supplied by SCL free of cost) and of required shade to give an even shade on structural steel surfaces at all elevations comprising steel channels, gratings, stairs, plates, flates, angles etc. including cleaning of surface with wire brush, ivory paper so as to remove the rust, all complete as per direction of Engineer-in-charge (Minimum two coats).	05	MT		
55	Wall painting with plastic emulsion (Paint to be supply by SCL free of cost) on all existing surface and at all elevation to give an even shade including scrapping of existing painted surface with ivory paper all complete as per direction of Engineer-in-charge. a)Two coats	2000	SQM		
56.	Painting MS pipes with synthetic enamel paint (paint, thinner to be supplied by SCL free of cost) of required shade to give an even shade on pipes including cleaning the existing painted surface etc. (Minimum two coats): Pipe Size a) 50mm b) 75mm c) 100mm d) 150mm	100 100 200 100	RM RM RM RM		
57.	Applying spirit polish to wooden/furniture, partition etc. (material to be supplied by SCL free of cost)	30	SQM		

58.	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface etc. complete. a) On Steel work b) On concrete work (Epoxy to be supplied by SCL free of cost.)	100 50	SQM SQM		
59.	Finishing walls with Acrylic Smooth exterior paint of required shade				
	New work(Two or more coat applied@ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10sqm).	2000	SQM		
60.	Disposal of malba comprising tarefelt, boulders, disposal from concrete dismantling, old bricks, scrap steel etc. within SCL Campus as per the direction of Engineer-in-Charge.	95	CUM		
61.	Brick work with FPS brick work of class 75 in SS by using old bricks obtained after dismantling	10	CUM		
62.	Removing existing Water Proofing Treatment (Tar Felt) over the roof of buildings including disposal of debris outside the SCL Complex .	200	SQM		
63.	Making holes in brick walls (upto 230mm thick) upto size 300mm x 300mm size and making good the same in CM 1:6 and disposal of the rubbish within SCL Complex	50	NO.		

64.	Making holes in RCC/concrete structures up to size 300 mm x 300 x 200 mm (thickness) size and making good the same in CM 1:6 and disposal of the rubbish within SCL Complex	20	NO.		
	TOTAL AMOUNT (IN RS.)				
	TOTAL AMOUNT IN WORDS (IN RUPEES)				

Note:

1. Cement and steel shall be issued by SCL at stipulated rates.
2. Plinth level up to 600mm above average G.L.
3. For painting works scaffolding to be arranged by contractor at his own cost.
4. Work is to be carried out at all elevations.
5. Work to be carried out at any place within the SCL Complex.
6. Makes of the material shall be approved by SCL.

SIGNATURE OF CONTRACTOR