



Tender for Miscellaneous Civil Work of Cephalosporin and Betalactum Block of Manicktala Works.

Tender No: BCPL/LT/Project/MCW/01/15-16.



**BENGAL CHEMICALS & PHARMACEUTICALS
LTD**

(A Govt. of India Enterprise)

Bengal Chemicals & Pharmaceuticals Limited
168 Manicktala Main Road, Kolkata-700054
West Bengal, India.

Tender for Miscellaneous Civil Work of Cephalosporin and Betalactum Block of Manicktala Works.

NIT

Tender No	BCPL/LT/Project/MCW/01/15-16
Tender Date	1 st September, 2015
EMD (Mandatory, without EMD, no bidder will qualify the technical round)	Rs: 15,000/-
Demand Draft Address	All DD will be in favor of Bengal Chemicals & Pharmaceuticals Limited, payable at Kolkata.
Address for Bid submission & Evaluation	Purchase Department, Bengal Chemicals & Pharmaceuticals. 168, Manicktala Main Road, Kolkata –700 054.
Last date & Time of Bid Submission	15th September, 2015 up to 4:00Pm
Opening of Bid	15 th September, 2015 up to 4:30Pm
Venue for Bid submission & Opening	Purchase Department, Bengal Chemicals & Pharmaceuticals Ground Floor of Manicktala Main Office, Manicktala Main Road, Kolkata – 54.

SCOPE OF WORK

The scope of work under this tender covers Miscellaneous different types of civil works of Cephalosporin and Betalactum Block of MFY, Details of the work is as mentioned in Bill of quantity (BOQ).

COMPLETION PERIOD: Forty Five Days (45 Days), will be reckoned from the 15th Day of date of issue of award letter.



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Eligibility Criteria:

The Tenderer to qualify the below criteria for participating in this tender,

- Tenderer must have executed under their Company/ firm's name & style at least 3(three) similar type of order for civil construction, repair and of similar type of work.
- Documentary evidence (duly signed & stamped) must be enclosed with the bid. Tenderer must have valid registration certificate for Sales Tax, Income Tax, Provident Fund / ESI and Trade License.

(Documentary Evidence to be accompanied the technical Bid)

Bid submission Criteria:

Bidders to be submitted their Bids under two separate sealed covers, one cover containing Part 1 (Un-priced Bid / Technical Bid) & the other cover containing Part 2 (Priced Bid / Commercial Bid). Indicating Tender Name, No,& Date with Tender Due Date.. These two bids should be submitted in a single sealed cover with the respective Tender No & Item. Mentioned thereon, complete in all respect, addressed to the DM (Purchase), BENGAL CHEMICALS & PHARMACEUTICALS LTD, 168, MANIKTALA MAIN ROAD, KOLKATA-700 054.

VALIDITY OF OFFER:

Bidders shall keep their offer valid for a period 90 days from the due date / extended due date (if any) of the tender-opening.

NON-CONFORMANCE

Tenders not conforming to the above mentioned requirement are liable to be rejected.

RIGHT OF ACCEPTANCE / REJECTION

Mere issue of tender document and submission of bids does not necessarily qualify for consideration of bids Bengal Chemicals & Pharmaceuticals Ltd reserve the right to accept or reject any tender either in part or in full without assigning any reason whatsoever.

CLARIFICATIONS

For any clarifications please contact Manager Projects & Engineering, BCPL, Manicktala, phone No: (033) 2320-4153 (Ext-108), Mobile no: +91-9830851116.

TERMS OF PAYMENT:

RA Bill (Running Account Bill) is accepted above 1Lakh net payment.

INSPECTION:

Materials on its arrival at Client's site will be inspected by Stores In-charge / Client's Representative and Engineer-in-charge and their decision in the matter will be final & binding upon also to the vendor.

Technical Specification:

Works will be executed as per CPWD specification with all updated correction slips

Special conditions/Specifications for Epoxy work.

NITOFLOOR SL 2000-3 MM THICK SELF LEVELING EPOXIES FLOOR TOPPING

1) Surface Preparation:

Before considering individual products which are used on floor substrate, it is essential to consider the importance of correct surface preparation. A newly finished and well cured concrete floor may need



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little surface preparation other than removing dust. Presence of laitance, plaster or mortar splashes shall be removed by sweep blasting or light chiseling. Acid etching with 10% solution of HCL shall be done on smooth surfaces to provide an effective bond between the topping and concrete surface. Even hand grinders shall be used for roughening the floor.

2) Check for Moisture Content In Concrete:

The concrete shall be checked for moisture content using Thermo Hygrometer before application of Nitoflor SL 2000 system. The technique involves measuring the percentage of relative humidity of the entrapped moisture in the concrete. If the relative humidity of the entrapped moisture in the concrete is less than 75% or less than 5% of the moisture content in concrete, then application of Nitoflor SL 2000 shall be carried out.

3) Application of Nitoflor 2000 system:

i) **Priming:** After thorough surface preparation the floor shall be treated with one full coat of Nitoprime 25, a solvent based epoxy primer. The coverage of primer may vary with the porosity of the substrate; normally on a good concrete surface one pack (5 kg) of Nitoprime 25 will cover 20-25 sqm.

ii) After the primer has become tack free, the base hardener and colour paste of Nitoflor SL2000 pack must be mixed together in the bucket with a paddle attached to a slow speed heavy duty drilling machine for about 3/4 minutes till a uniform colour and consistency of the mix is obtained. Ensure that the machine speed should not exceed 350 to 400 RPM. If the speed of the paddle increases it heats up the contents and pot life of the mixed material is drastically reduced. This causes problems in laying the product and rolling efficiently.

iii) The mixed material should be then poured on the primed substrate and spread to the required thickness with a steel serrated trowel. For approx. 4.5 sqm. 1 pack of Nitoflor SL2000 would give a thickness of 3mm. This could also be ensured with a wet film thickness gauge. After trowelling the Nitoflor SL2000 material must be rolled with a spiked roller thoroughly to release the entrapped air in the film. This will ensure a perfect bond between the Nitoflor SL2000 topping and the substrate. Spike rolling can be done for about 30 to 45 minutes. Initially rolling will be very easy and the spike marks will close up immediately since the material is very fluid. As the material gets the spike rolling, it becomes more and more difficult and the roller marks close very slowly. At this stage the rolling operation shall be stopped. While laying large areas of Nitoflor SL2000 spiked shoes shall be used to walk around to minimize the contact area.

4. Curing:



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Nitoflor SL2000 cures in 18 hours @30°C. Occasional and light foot traffic can start at this time. Full traffic shall be started after 36 hours @ 30°C. The system fully cures in 7days and will deliver all the properties built into the system.

5. Floor Joint in Nitoflor SL 2000 Floors:

Floor expansions joint shall be sealed with two part poly sulphide sealant Thioflex 600 and Nitoflor SL2000 system shall not be carried over the joint. Mixing and application procedure of Thioflex 600 will be as per the Data Sheet.

Non movable joints in the floor shall be filled with low MAF epoxy polyurethane sealant Nitoseal 280. The sealant is available in different colours to match the colour of applied Nitoflor SL 2000 system.

6. Application Temperature:

The application temperature range of Nitoflor SL 2000 is between 15C & 35C. During winter it is advisable to carry out the application during day time or suitable heating devices shall be used to make the area warm.

7. Floor/Wall Covings:

Covings are done in clean room areas to discourage bacterial growth on and to extend the properties of sterility and hygiene in junctions of walls and floors. Coving shall be done using Nitoflor TF 30 and shall be coated with two full coats of Nitocoat FC 140 or with Nitoflor SL 2000.

8. Specifications for Epoxy Wall Coating:

Product : Nitocote EP140

No. of Coats : Three

Thickness : 150 microns (Dry film thickness in three coats)

9. Surface Preparation:

Surface to be coated must be structurally sound, dry and free from loose material. All surface contamination must be removed. Grease, oil, laitance must be removed from concrete surface by etching with Reebaklene, then washed off and dried. New plastered surface should be allowed to cure for at least 28days prior to application of Epoxy putty and Epoxy coating.

10. Application of Putty:

Minor undulations and surface pores in the plastered surface shall be leveled and filled with acrylic putty. The putty should be allowed to cure for minimum 24 hours.



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11. Application of Nitocote EP140:

i) **Mixing:** Before Mixing the contents of each can should be thoroughly stirred to disperse any settlement which might have taken place during storage. The entire contents of the smaller hardener can and pigment should be poured into the base container and the materials thoroughly mixed for at least two minutes. The filler part is then added slowly by operating the mixer. Mechanical mixing using a slow speed (300 to 500 RPM) flameproof or air driven drill fitted with a mixing paddle is recommended. The entire mix is mixed thoroughly for two minutes until a uniform consistency is obtained.

ii) **Coating:** Apply the mixes Nitocote EP 140 to the dry prepared substrate making sure a continuous film is achieved using a standard paint brush or good quality lamb's wool roller. The mixed material should be applied within its pot life. An optimum dry film thickness of 150 microns is achieved in three coats. Minimum over coating time of six to ten hours shall be allowed between subsequent coats depending on temperature conditions.

TEST CERTIFICATES:

Test Certificates, shall be obtained and furnished to the client free of cost along with the supply. Client reserve the right to avail third party for inspection and testing. Dispute if any to be settled within BCPL, Manicktala, Kolkata jurisdiction.

STAMPED & SIGNED BY THE BIDDER

FORM OF BID

(To be submitted by the Bidder)

M/s.



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BCPL, Kolkata

Sub :

Dear Sir,

1. Having carefully examined all the Tender documents attached to your Invitation to Bid No. Dated, and its Amendments / Errata / Corrigendum / Clarifications issued till the date of tender opening, we agree to complete the WORKS in conformity with all the terms and conditions stated in Tender Documents and its Amendments / Errata / Corrigendum / Clarifications issued till the date of tender opening and as per time schedule given in Tender Document. The Plant, Equipment and System offered are of best and of latest technology and of international standards.
2. I / We declare and certify that I / We fully satisfy the Qualifying Requirements and the documentary proof as called for, have been annexed.
3. We undertake, in case our bid is accepted, to commence the work from the date of Letter of Award and to complete and deliver the whole of the work and responsibilities comprised in the contract within Three (3) Months calculated from the date of Work Order and as per time schedule given in Tender Document.
5. We agree to abide by and keep our Bid valid initially for a period of 3 months from the date of opening of Bid and it shall remain binding on us and may be accepted at any time before the expiry of that period.
6. Should our Bid be accepted, we hereby agree to abide by and fulfill all Terms and Conditions of Tender Document as accepted by us. We understand that BENGAL CHEMICALS AND PHARMECUTICALS LTD is not bound to accept the lowest or any Bids received and BENGAL CHEMICALS AND PHARMECUTICALS LTD has the right to reject a bid, without assigning any reason whatsoever.
7. This Bid together with written acceptance by way of Work Order thereof, shall constitute a binding CONTRACT between BENGAL CHEMICALS AND PHARMECUTICALS LTD. and ourselves till any formal contract is executed.
8. Dated this _____ day of _____.

Witness – Authorised Signature
Signature
Occupation
Date
Address
Witness --: DESIGNATION

STAMPED & SIGNED BY THE BIDDER

SCHEDULE OF CONFIRMATION

Questionnaire on Commercial Points to be answered by the Bidder



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1.0 Name of Bidder Firm/Company

1.1 Address:

1.2 Telephone No. :

1.3 Fax. No. & E-mail Address:

1.4 Banker's Name & Address:

1.5 Name & Full address of Chief Executive :

1.6 Name, Designation and full address of contact person and:

Cell No. ,

E-mail address.

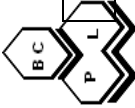
1.7 Place of manufacture of supply item:

1.8 Other information if any (enclose separate sheets) :

1.9 VALIDITY OF BID

2.0 Please confirm the validity of Bid to be 3 months:

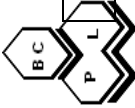
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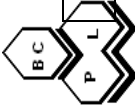
B O Q									
NAME OF WORK: MISCELONEOUS CIVIL WORK AS PER NEW LAYOUT FOR NON BETALUCTUM TAB & CAPSULE. (CIVIL WORK IN BETALACTUM & CEPHALOSPORIN BLOCK)									
SL	DESCRIPTION OF ITEMS OF WORK	QTY	UNIT	RATE	AMOUNT	REMARKS			
	Earth work:								Amount
1	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead Upto 50 m and lift Upto 1.5 m: 2.2.1 All kinds of soil.	5	cum						
2	Supplying and filling in plinth with fine sand under floors, including watering, ramming, consolidating and dressing complete.	2	Cum						
3	SH: Demolishing. Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge 15 In cement mortar.	14.1	CUM						
4	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2	CUM						



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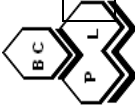
5	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1.5	CUM					
6(i)	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead : Of area 3 sq. metres and below	4	each					
6(ii)	Of area beyond 3 sq. metres	5	each					
	SH: Cement Concrete & R.C.C.							
7	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.5	cum					
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centring, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). cum	0.5	cum					
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.5. Cold twisted bars	350	kilogram					
10	Centering and shuttering including strutting, propping etc. and removal of form for :5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers	15.5	sqm					



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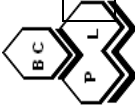
11	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.5 cum						
	SH: Brick Work.							
12	.Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: Cement Mortar 1:6 (1 cement: 6 coarse sand).	2.5 CUM						
13(i)	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : i)Cement mortar 1:4 (1 cement : 4 coarse sand)	21 cum						
13(ii)	ii)Cement mortar 1:6 (1 cement : 6 coarse sand)	1 cum						
14	(A).Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)	25 sqm						
15	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground. For door/ window/ clerestory window	10 sqm						Page 2 of 4
	SH: Aluminum work.							



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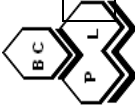
16	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :</p> <p>For fixed portion Powder coated aluminium Sheet to be provided of thickness 1.5mm (minimum thickness of powder coating 50 micron)</p>	120	kg					
17	<p>Extra for open able side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardware for the open able panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer in-Charge.</p>	10	sqm					
18	<p>Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.</p>	2.5	sqm					



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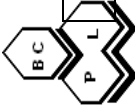
19	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 300x16 mm	2	each					
20(i)	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	2	each					
20(ii)	200x10 mm	2	each					
21	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.	1	each					
22	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer in-charge. Powder coated minimum thickness 50 micron aluminium	2	each					
23	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2	each					
24	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. SH: Finishing work.	18	sqm					
25	15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand)	45	sqm					
	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	40	sqm					



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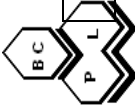
26	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand)	85	sqm						
27	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work	85	sqm						page-3 of 4
28	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturer's specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	92	sqm						
29A	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. On steel work	10	sqm						
29B	On concrete work	20	sqm						
30	Wall/ ceiling painting with epoxy paint of following approved brand and manufacturer with their application direction to give an even surface to avoid any settlement of dust particle on the surface of ceilings / walls for clean room requirement (a) Fosroc SL2000(FOSROC) or (b) Equivalent of SIKKA	42	sqm						
31	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work	30	sqm						
32	Providing and applying Birla white cement putty below O.B.D/ Synthetic enamel paint/ Plastic emulsion paint to give smooth /even finish to the surface complete to the satisfaction of EIC/Architect.	127	sqm						
	SH: Flooring.								



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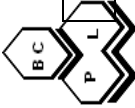
33	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	12.9	sqm				
34	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	10	sqm				
35	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	2	sqm				
36	Epoxy flooring(NitroFloor SL 2000-3mm thick Self Levelling Epoxy floor topping) in production building of following approved brand and manufacturer with their application direction to give an even surface to avoid any settlement of dust particle on the surface of floor / walls for clean room requirement (a) Fosroc SL2000(FOSROC) or (b) Equivalent of SIKKA (Details of Surface preparation, checking of Moisture content in concrete before application of NITRO FLOR SL 2000 ,priming with one full coat of Nitro prime 25, Curing etc given in the Technical Specification .All the procedure to be followed very strict manner to make the Epoxy Floor up to the requirements of clean room Area also.)	18	sqm				
37	Providing and applying epoxy coving at the joints of walls and floors of radius 75 mm with concavity on the exposed surface as per the pattern shown in the existing works and manufactures' specifications & Technical Specifications in the Tender.	15	Mtr.				
38	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2.5	cum				



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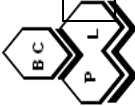
39	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate SH: STEEL WORK.	12	sqm					
40	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases in the cover of drains or other opening etc . including use of chequered plate wherever required, all complete SH: Roofing	100	kg					
41	Providing and fixing precast galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 micron epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	5.5	sqm					page -4 of 4



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42	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm)	3.5	metre.					
43	10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 10.16.1 Hot finished welded type tubes kg	30	kg					
	SH: Rolling Shutter.							
44	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover .	6	sqm					
	SH: Scaffolding							



Tender for Miscellaneous Civil Work of Cephalosporin and Betalactum Block of Manicktala Works.

Tender No: BCPL/LT/Project/MCW/01/15-16.

45(i)	<p>Making one set of scaffolding only for replacing glass panels, painting, uprooting plant and another repairing works of building and S&P works for external works only with 10 cm. dia bamboo as main posts at the rate of 1 metre centre to centre and 7.5 cm. dia bamboo ties @ 0.75 metre apart fitting and fixing with necessary coir, nails etc. as per direction of the Engineer-in-charge.(This item should be executed only after prior approval of the Engineer-in-charge). Firstly, one number to be paid and then labour rate for shifting up to further nineteenth (19) times @ 10% each time to be considered. If necessary further after twenty times of total use, another one number new and labour rate for shifting to be considered accordingly(up to 3.9 height)</p>													
45(ii)	<p>Extra for additional 3.6 heights or part thereof.</p>													
							Each Set						Each Set	
							Total							



STAMPED & SIGNED BY THE BIDDER



Tender for Miscellaneous Civil Work of Cephalosporin and Betalactum Block of Manicktala Works.

Tender No: BCPL/LT/Project/MCW/01/15-16.

Tenderers are requested to sign & stamp in all pages of bid document and submit in the technical bid (Un-Priced/Technical Bid)

BOQ/Price bid to be printed on bidders letter head and submit inside the Price Bid (Commercial Envelop)

DM(Purchase)

BCPL, Manicktala, Kolkata – 54.