

NAME OF THE WORK:MODIFICATION & CONVERSION OF EXISTING ROOMS- 408, 409, 410,411, NEURO CHEMISTRY LAB & NEURO CHEMISTRY OFFICE" AS "STAFF TRAINING DEPARTMENT" IN THE THIRD FLOOR OF "WILLIAMS BUILDING" AND PART OF "NEURO BLOCK" AT CMC, TOWN CAMPUS.						
SCHEDULE-B		TERRACE WATER PROOFING AND STRUCTURAL REHABILITATION WORKS (PART OF NEURO BLOCK AREA)				
Sl.No.	Quantity		Description of the work	Rate	Unit	Amount
1	55.00	M ²	Cleaning the surface to be coted to remove all the loose particles, dust etc.,including alage,cement and oil stains by jet water.All the joints to be checked and filled with grout to all the cracks over the floor junction and parapet wall by cutting V-groove and filled with acrylic crack filling paste.Over the sealed cracks white cem admixed with SBR with applied and leveled.Cleaning the surface using air blower to removed all the dust and make the surface ready for coating. Applying 1st coat (primer coat) STAFPROOF602 (or) approved equivalent (synthetic rubber reinforced high elongation water proofing coating) with water in the ratio 1:0.2 using slow speed mixing machine, and applying the second coat after 4 hours with dilution 1:0.15 and finishing the surface neatly.as per manufacturer's specification.		1M ²	
2	55.00	M ²	Applying two coats of STAFPROOF600 or approved equivalent with 1st coat water dilution 1:0.2 in the mean interval of 4 hours through out the floor and parapet wall.Over the primer applying two coats of STARPROOF600 (or) approved equivalent (synthetic rubber reinforced high elongation water proofing coating) with water dilution 1:0.3 and finishing the surface neatly.as per manufacturer's specification.		1M ²	
3	30.00	M ²	Surface Preparation - SBR: Labour charges for chipping the spalled and old concrete of the column, beam/slab and other elements. Check for the phenolphthalein test and if there is no change in colour, chip the same further down until, reaching the good or uncontaminated concrete. Clean the reinforcement using Reebaklens RR of Fosroc or equivalent and ensure that there are no traces of rust on the surface of existing rebars. Clean the surface and make sure that surface is clean and free from loose particle with all lead and lift etc. Complete. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include scaffolding and the cost of all the operations etc complete.		1M ²	
4	45.00	Nos	Shear Connectors: Drilling 12mm dia holes up to a depth of 75mm maximum and fixing 8mm dia L shaped anchor rods as shear connectors at every 300mm c/c on the surfaces of the columns/beams or any other structural member as the case may be. Clean the same using water and make sure that there are no fine particles present in the hole. Mix the base and hardener of the polyester resin with the spatula thoroughly. Fill the drilled and cleaned holes to a minimum depth of 1/3rd of the hole with the prepared polyester resin anchor grout LOKFIX S. Make sure that the resin has reached till the end of the hole. At this stage push the shear connector gently in to the hole and finish the excess resin which comes out of the hole and allow the shear connectors not to be disturbed for minimum 20 minutes - complete. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1No	

NAME OF THE WORK:MODIFICATION & CONVERSION OF EXISTING ROOMS- 408, 409, 410,411, NEURO CHEMISTRY LAB & NEURO CHEMISTRY OFFICE" AS "STAFF TRAINING DEPARTMENT" IN THE THIRD FLOOR OF "WILLIAMS BUILDING" AND PART OF "NEURO BLOCK" AT CMC, TOWN CAMPUS.						
SCHEDULE-B		TERRACE WATER PROOFING AND STRUCTURAL REHABILITATION WORKS (PART OF NEURO BLOCK AREA)				
Sl.No.	Quantity		Description of the work	Rate	Unit	Amount
5	45.00	Nos	Provision of Galavanic Anode: Prior to installation of the self-sacrificial anode Galvashield XPI units, check the continuity of the steel reinforcement. Any loss of continuity will require additional electrical connections or restoration of continuity by effective means. Select a location for the Galvashield XPI as close as practical to the edge of the repair zone. Galvashield XPI units should be positioned around/along the repair boundary. In addition to standard substrate preparation, the Galvashield XPI anode(s) shall be thoroughly pre- soaked in clean water for a minimum of 10 minutes and a maximum of 20 minutes, prior to the application of the repair mortar. Tighten tie wires using Galvashield Fixing Tool so that no free movement is possible, thus ensuring good electrical continuity. To test electrical continuity between tie wires and reinforcement bar, a continuity meter like electrical multi meter should be used. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1No	
6	4.00	litres	Anti-corrosive Coating: Clean the rebars using the rust remover if there exists any rust, otherwise clean the rebar free of foreign material. Mix the base and hardener of the anti-corrosive coating like Nitozinc Primer of Fosroc or equivalent mechanically using a slow speed heavy duty drilling machine fitted with mixing paddle and mixing mechanically until it is homogenous and applying the same as one rich coat of reinforcement with all lead and lift etc.complete and as directed by the Engineer in charge. Apply the mixed materials to the cleaned rebar and allow it to dry complete. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1litre	

NAME OF THE WORK:MODIFICATION & CONVERSION OF EXISTING ROOMS- 408, 409, 410,411, NEURO CHEMISTRY LAB & NEURO CHEMISTRY OFFICE" AS "STAFF TRAINING DEPARTMENT" IN THE THIRD FLOOR OF "WILLIAMS BUILDING" AND PART OF "NEURO BLOCK" AT CMC, TOWN CAMPUS.						
SCHEDULE-B			TERRACE WATER PROOFING AND STRUCTURAL REHABILITATION WORKS (PART OF NEURO BLOCK AREA)			
Sl.No.	Quantity		Description of the work	Rate	Unit	Amount
7	30.00	M ²	Epoxy Jointing Compound: Clean the concrete surface, remove the loose particle, if any. Make sure that the form work is ready for positioning. Mix the base and hardener of the epoxy resin jointing compound and apply the same to the prepared surface. Care should be taken that the micro concrete / SP40 / SBR need to be done within 5 hours maximum from the time of application of epoxy jointing compound Nitobond EP of Fosroc or equivalent or as per the datasheet. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1M ²	
8	30.00	M ²	Polymer Modified Mortar - SBR: After Chipping off the corrosion damaged areas on the beam/ column/ slab/wall or any other structural members and Cleaning of reinforcement using Reebaklens RR of Fosroc or equivalent and ensuring that there are no traces of rust on the surface of existing rebars. After that the depth of carbonation is checked using the phenolphthalein indicator and make sure that the contaminated concrete is removed completely. Wet the surface with potable water and make sure that the surface is kept moist so that the water cement ratio in the polymer modified mortar is maintained. Supply and application of Nitobond SBR or equivalent soon after the finishing is over, apply the curing compound complete. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1M ²	
9	30.00	M ²	Curing Compound: Immediately after striking the form work or after completion of the repair works, the surface should be sprayed with water once and followed by application of membrane based curing compound like Nitobond AR of Fosroc or equivalent diluted with water in the ratio of 1: 1 as a curing membrane - Complete. (All labour, materials, tools and plant are to be supplied by the contractor only at his own cost). The rate shall include necessary scaffolding and platform and cost of all the operations and etc complete.		1M ²	
10	100.00	Kgs	Additional Reinforcement: Check the diameter of the existing rebars and if the diameter is less than 30% of the original diameter, provide additional reinforcement. Cut 12mm dia bars as main reinforcement to the required length with proper development length. Tie them to the prefixed shear connectors so that the additional rebar acts monolithically with the existing ones and core concrete. In the case of the shear reinforcement also, if the diameter of the rebars are reduced, provide 8mm dia stirrups in the form of 2 "U" shaped bars. Tie them properly so that it has a tight contact with the main bars.		1Kg	
11	50.00	Nos	Labour charges for Welding additional reinforcement with the Existing reinforcement of Rcc sunshade,beam,slab,column including cost of electrodes, carrying out site welding works at external areas of the building at various heights,etc., complete.		1No	

NAME OF THE WORK:MODIFICATION & CONVERSION OF EXISTING ROOMS- 408, 409, 410,411, NEURO CHEMISTRY LAB & NEURO CHEMISTRY OFFICE" AS "STAFF TRAINING DEPARTMENT" IN THE THIRD FLOOR OF "WILLIAMS BUILDING" AND PART OF "NEURO BLOCK" AT CMC, TOWN CAMPUS.						
SCHEDULE-B		TERRACE WATER PROOFING AND STRUCTURAL REHABILITATION WORKS (PART OF NEURO BLOCK AREA)				
Sl.No.	Quantity		Description of the work	Rate	Unit	Amount
12	10.00	M ²	Form work: Providing slurry tight formwork made up to 12mm thick waterproof plywood and suitable country wood runners,joints, Centring and shuttering including strutting, propping, etc, as per the required line and length at all different floor levels as per the standard specification-complete. Form work should be rigid to prevent loss of grout or mortar concrete from concrete at all stages & appropriate to the methods of placing & compacting as per standard specification. The rate shall include the cost of all the operations etc complete. Proper provision shall be made for a suitable feed hopper for pouring concrete, necessary supporting arrangements shall be made for the correct alignment of form work, the entire inner surface of the form work is fixed in position.		1M ²	
13	1.00	M ³	Concrete: Providing & laying RCC for RC Structural elements of M25 grade including the cost of cement, aggregate, etc. & finishing, the concrete admixture conforming to IS: 9103 to improve workability without affecting the strength and durability as directed by the engineer-in-charge but excluding the cost of centering, shuttering and reinforcement. The rate shall include the cost of all the operations and etc complete.		1M ³	
14	0.75	M ³	Removal of Damaged RC Sunshades: Demolishing Damaged Sunshades work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-incharge.		1M ³	
15	10.00	Nos	Anchoring the RC Sunshades Reinforcement into the Lintel Beams: Mark the position of holes to be drilled for anchoring the rebar into the RC Element. Drill diameter of rebars + 4 mm holes in the marked places using rotary hammer drilling machine of reputed make to a depth of 75mm into the RC Element, Clean the holes neatly and wash the same with jet of water. Allow it to dry and make sure that no fine dust particles are present in the holes. Mix the base and hardener of the polyester resin using a spatula and push the same into the holes with a proper tool so that the bottom most point of the hole receives the material. The filling is to be done for a minimum portion of 1/3rd of the hole depth. Now insert the rebar to be anchored for the provision of main reinforcement, gently and finish the surface around the rebar area using the same material which comes out of the hole excessively.		1No	
16	10.00	M ²	Water Proofing RCC Sunshades: All the surfaces which are to receive the waterproofing coating like Brushbond of Fosroc or equivalent, must be free from dirt or any other form of foreign matter which might affect adhesion. Acid wash and water wash the surface and allow it to surface dry condition. Mix the part A and part B of the polymer modified cementitious coating mechanically using an electrical operated drilling machine fitted with mix paddle. Apply the same in two coats over the prepared surface one after the other dries up with a minimum interval of 4 hours between the coats.		1M ²	

NAME OF THE WORK:MODIFICATION & CONVERSION OF EXISTING ROOMS- 408, 409, 410,411, NEURO CHEMISTRY LAB & NEURO CHEMISTRY OFFICE" AS "STAFF TRAINING DEPARTMENT" IN THE THIRD FLOOR OF "WILLIAMS BUILDING" AND PART OF "NEURO BLOCK" AT CMC, TOWN CAMPUS.						
SCHEDULE-B			TERRACE WATER PROOFING AND STRUCTURAL REHABILITATION WORKS (PART OF NEURO BLOCK AREA)			
Sl.No.	Quantity		Description of the work	Rate	Unit	Amount
17	10.00	M ²	Protective Plastering for RC Sunshades and Masonry Walls: Providing & applying sand faced plaster of 20 to 25 mm thickness including curing, Prepare cement sand mortar 1:4. Finish the same as per the line and length required.		1M ²	
18	0.10	M ³	Micro- Concrete: Stock sufficient quantity of micro concrete of non-shrink micro concrete RENDEROC SP40 and 12mm downgraded chips on site to enable the completion of the pouring in a continuous operation. An approved concrete mixer or a slow speed heavy duty drilling machine fitted with mixing paddle shall be used. Mix the micro concrete and the 12mm down grade chips in the ratio of 1: 0.5 by weight with required quantity of water as per the data sheet and place the same to the prefixed formwork well before the epoxy jointing compound dries up. Remove the formwork after 24 hours in the case of columns and after a period of 72 hours in the case of slab and beam and check for any surface defects and if so apply the polymer modified mortar - complete. The rate shall include the cost of all the operations and etc complete. pouring the same using positive displacement helical screw pump into the form work made by good quality waterproof plywood with country wood runners and supported safely for the 80mm thickness with all lead and lift etc., complete.		1M ³	
19	20.00	Nos	Drilling & fixing of Nozzle: Identify the point to be grouted and care to be taken to drill at the horizontal and vertical joint along the other weak points. Drill holes of 19mm dia holes to depth of about 75mm. Fix the pvc nipple using rapid setting compound like Rendroc Plug of Fosroc or equivalent. Allow it to set complete		1No	
20	15.00	litres	Injection of Microfine cement: Prepare the micro fine cement slurry by adding the micro fine cement with water with minimum of 0.5 water cement ratio. Mixing to be done mechanically and expandable grout additive like Cebex 100 of Fosroc or equivalent at 225 gms per bag of cement need to be added to compensate the shrinkage. Inject the same using a positive displacement pump until the nipple refuses the grout or the grout comes out in the near by points. Cut the nipple and finish the same using polymer modified mortar - complete.		1litre	
21	1.00	Lorry load	Transporting the debris by lorry from CMC Town campus to outside of the campus including loading and unloading charges etc. complete.(capacity 5.50 M ³ /load).		1 Lorry load	
				Sub Total		
(Excl. GST) C/o to CONSOLIDATED SUMMARY						