

# Name of the work: "Fixing of Gutter, Rain water pipe & Internal painting of Auditorium at CMERI, Durgapur"

## SCHEDULE

Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.1	Demolishing cement concrete of nominal mix 1:3:6 or richer by manually/mechanical means including disposal of rubbish within 50 m lead as per the direction of EIC.	cum	5		
1.2	Dismantling RCC work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 m lead as per direction of Engineer-in-charge.	Cum	1		
1.3	Demolishing brick work in cement mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material as per direction of Engineer-in-charge.	cum	14		
1.4	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish within 50 m lead as per the direction of EIC.	sqm	100		
1.5	Taking out shutter of door and window, dismantling by parts (for repair or replacement of damaged parts), reassembling and refitting and rehanging same with old fittings but with new screws as necessary.	sqm	12		
1.6	Taking out doors, rolling Shutter, windows and clerestory window shutters (steel or wood) of area beyond 3 sq. Metres including stacking within 50 metres lead or as per direction of EIC.	Each	1		
1.7	Taking out doors, rolling Shutter, windows and clerestory window shutters (steel or wood) of area 3 sq. metres and below including stacking within 50 metres lead or as per direction of EIC.	Each	6		

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Item No.	Particulars of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.8	Taking out old damaged tarfelt/APP from the roof, parapet etc. preparing the roof surfaces by removing all spoils, blisters, moss etc. from the working site and disposal of the same beyond the compound and cleaning the site in all respect as per direction of Engineer-in-Charge.	sqm	220		
1.9	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling/ acoustic wall paneling including disposal of unserviceable surplus material and stacking of serviceable material within 50 m lead as directed by Engineer-in-charge.	sqm	14		
1.10	Dismantling CI or AC rain water pipe 150 mm dia. with fittings within a lead of 50m.	m	70		
2. Brick work					
2.1	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, with Cement mortar 1:4 (1 cement : 4 coarse sand).	Cum	15		
3. R. C. C. work					
3.1	Reinforced cement concrete work with 1:1.5:3 (1 cement : 1.5 coarse sand (zone -III) : 3 graded stone aggregate 20 mm nominal size) mix in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillers, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement.	Cum	1		
3.2	Steel reinforcement of Thermo-Mechanically Treated bars of grade Fe-500 D or more for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	kg	120		

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Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
3.3	Centering & shuttering including strutting, props, beams, plinth beams, girders, bressumers and cantilevers.	sqm	10		
4. P. C. C. work					
4.1	Providing and laying cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor block, plain window sills, fillets etc. up to floor five level, excluding the cost of centering, shuttering and finishing:	cum	5		
5. Finishing					
5.1	Checking the integrity of false ceiling board with the false ceiling frame after preparing necessary scaffolding for accessing the false ceiling which is approximately 10.4 m above the ground level. And if any false ceiling is found to be loose from framework, fixing of same with necessary screws. [The scaffolding must be strong and rigid stiffened with necessary cross braces and always decked and boarded on the sills with close boarded veiling and swings to prevent any injury to persons or materials.]	Sqm	550		
5.2	Supplying, fitting & fixing OW Acoustic Board/Tiles of 15mm thick . (mineral fibre Acoustic Ceiling Tiles) of approved pattern and size 595mm X595mm with NRC value > 0.65 should be placed in the Grid module to form a false ceiling all complete as per drawing & direction of Engineer - In-Charge. [frame work for false ceiling shall be paid separately]	sqm	15		
5.3	Removing white or colour wash or existing paints by scraping and sand papering and preparing the surface smooth including necessary repairing to scratches etc. complete upto 12 m height from floor/ground level.	Sqm.	2200		

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Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
5.4	Rendering the surface of walls and ceiling with white cement based water proof wall putty of approved make and brand (1.5mm thick).	sqm	50		
5.5	12 mm cement plaster of mix of mix 1:4:1 cement : 4 fine sand) upto 12 m height from floor/ground level.	Sqm	100		
5.6	15mm cement plaster on rough side of mix 1:4 (1cement: 4coarse sand) upto 12 m height from floor/ground level.	Sqm	60		
5.7	20 mm cement plaster of mix 1:4 (1 cement: 4 coarse sand) upto 12 m height from floor/ground level.	sqm	100		
5.8	Renewing 4mm glass panes with putty and nails necessary	sqm	10		
5.9	Polishing only of old kota stone/ marble or terrazo work with oxalic acid powder using 33 gms/ sq.m. by manual labour / machine where necessary.	sqm	260		
5.10	Finishing walls with Acrylic Smooth exterior paint of required shade on new work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) upto 12 m height from floor/ground level.	Sqm	250		
5.11	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including priming coat with cement primer upto 12 m height from floor/ground level.	sqm	2200		
5.12	Applying one coat with ready mixed pink or gray primer of approved brand and manufacture on wood work.	sqm	130		

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Item No.	Particulars of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
5.13	Applying one coat with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	sqm	70		
5.14	French spirit polishing two or more coats including a coat of wood filler.	sqm	130		
5.15	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade, two or more coat.	sqm	230		
6.	Aluminium work				
6.1	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, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)				
6.1.1	For fixed portion/false ceiling frame work with Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	30		
6.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (fittings shall be paid for separately) with powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	30		

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Item No.	Particulars of Items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
6.2	Supplying bubble free float glass of 6mm thick clear glass of approved make and brand conforming to IS: 2835-1987.	Sqm	6		
6.3	Easing door and windows	Each	10		
6.4	Supplying maruti lock (100mm)	pair	4		
6.5	Providing and fixing 100mm wide Vista blinds (dust gurd) of approved colour including labour material all complete.	sqm	7		
7. Roofing					
7.1	Structural steel work with M.S. Sheet riveted, bolted or welded in built up sections for gutter /trusses and framed work, including cutting, hoisting, bending of plate, grinding of weld, finishing and fixing in position and applying a priming coat of approved steel primer all complete as per direction of engineer in charge.	kg	1500		
7.2	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	1150		
7.3	Taking out carefully G.C.I. or C.I. or asbestos sheets (including ridges etc.) from roof or wall after unscrewing bolts, nuts, screws etc. and stacking the material at site as directed.	sqm	170		
7.4	Fitting and fixing old pieces of asbestos in roof with all new fittings including the cost thereof, G.C.I. or C.I. sheets or plain sheets including closing old holes with washers and sheet-bolts and nuts, etc. and including fixing the same to supporting frame with necessary hook-bolts, washers, putty etc. (excluding cost of sheets). (Payment to be made on area of finished work.)	sqm	130		

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Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
7.5	Asbestos corrugated (Traftord or similar approved quality) sheet (6 mm thick) work in roof (excluding the supporting framework) fitted and fixed with 9.5mm. dia. J or L hookbolt and nuts, limpet and bitumen washers and putty with 150 mm end lap & one corrugation minimum side lap complete. (Payment should be made on area of finished work)	Sqm	170		
7.6	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87 - 0.89 kg/litre 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 parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. 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 authorised applicator of the manufacture of membrane. 2mm (for corrugated roof sheets)	sqm	270		
8.	Doors & Windows				
8.1	Providing woodwork with sal wood in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position.	Cum.	0.07		

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Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
8.2	Providing and fixing ISI marked flush door shutters 30 mm thick including ISI marked Stainless Steel butt hinges, necessary screws conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:	Sqm.	4		
8.3	Providing and fixing bright finished brass tower bolts (barrel type) of size 250x10 mm with necessary screws etc. complete	Each	4		
8.4	Providing and fixing chromium plated brass handles of 100 mm with necessary screws etc. complete	nos	4		
8.5	Labour for taking out existing door locks & refixing of same with necessary screws.	each	2		
8.6	Taking out and refixing after oiling and cleaning including adjusting spring of different type of automatic door closer with necessary screw complete.	each	4		
8.7	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete. Heavy type Godrej Hydraulic door closer fitted and fixed complete.	Each	8		
9.	Anti-termite treatment				

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Item No.	Particulars of items	Unit	Qty	Rate (Rs.)	Amount (Rs.)
9.1	Anti-termite treatment to the junction of wood work and masonry walls with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight including spraying at the points of contact with the adjoining masonry by drilling 6mm dia holes at a downward angle of about 45 degree at the junction of woodwork and masonry and squirting chemical emulsion into these holes at the rate of half litre per hole. The entire work is to be carried out as per specification of Code I.S.-6313 (Part-III)-1981. The shutters are to be sprayed with emulsion on both sides. All wooden fixtures like almirahs, racks etc. are also to be thoroughly sprayed with chemical emulsion. (Payment will be made on the basis of outside measurements of doors and windows)	sqm	25		
10.1	Supply fitting, fixing 150 mm. Dia. (internal) cast iron down pipes conforming to IS:3989-1970 and IS:1729 1964 in position with necessary clamps, nails including making hole in wall, floor etc. and cutting trenches in any soil through masonry concrete structures etc. if necessary and mending good damages including joining with jointing materials complete. [Payment will be made on centre line measurement of the total pipe line including specials. Payment for specials will however be paid separately].	m	90		
10.2	Supply fitting, fixing of C. I Bend of down pipe. (With door) of 150 mm dia. each	each	12		
10.3	Supply fitting, fixing of C. I shoe of down pipe. each	each	10		
TOTAL					

TOTAL Rs. (in words)

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