

SCHEDULE OF QUANTITY

Name of the work "Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9."

Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
Dismantling & Demolishing					
1	Dismantling old plaster or screeding racking out joint and cleaning the surface including disposal of rubbish to the dumping ground in a specified location as per direction of Engineer-in-charge.	Sqm	3000	Rs. Rupees.	
2	Demolishing Cement concrete work 1:3:6 or richer mix manually/ by mechanical mean including disposal of serviceable material in a specified location as per direction of Engineer-in-charge.	Cum	30	Rs. Rupees.	
3	Demolishing brickwork manually/ by mechanical means including stacking of serviceable materials and disposal of unserviceable materials in a specified location as per direction of Engineer-in-charge lead in cement mortar.	Cum	25	Rs. Rupees.	
4	Taking out doors, windows and clereystorey window shutters (steel or wood) with frames including stacking in a specified location as per direction of Engineer-in-charge of area 3 sqm & below	Each	142	Rs. Rupees.	
5	Dismantling CI or AC rain water pipe 100mm dia. with fittings in a specified location as per direction of Engineer-in-charge.	M	205	Rs. Rupees.	
6	Dismantling Indian/European Type WC pan including taking out base concrete if necessary stacking at a location in a specified location as per direction of Engineer-in-charge.	Each	20	Rs. Rupees.	
7	Labour for dismantling G.I.Pipes with fittings stacking at a location in a specified location as per direction of Engineer-in-charge.				
	a) 15mm	M	205	Rs. Rupees.	
	b) 20 mm	M	108	Rs. Rupees.	
	c) 25 mm	M	55	Rs. Rupees.	
	d) 40 mm	M	60	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
	e) 50 mm	M	90	Rs. Rupees.	
8	Lowering the existing tank (upto 1000 litre capacity) stacking at a specified location as per direction of Engineer-in-charge.	Each	20	Rs. Rupees.	
Water supply					
9	Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately): (A) For Exposed Work				
	a) 20 mm dia. medium quality	Mtr	36	Rs. Rupees.	
	b) 25 mm dia. medium quality	Mtr	110	Rs. Rupees.	
	c) 40 mm dia. medium quality	Mtr	145	Rs. Rupees.	
	d) 50 mm dia. medium quality	Mtr	90	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
10	Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately): (B) For Concealed Work: 15 mm dia. medium quality	Mtr	205	Rs. Rupees.	
10	Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately): (B) For Concealed Work: 20 mm dia. medium quality	Mtr	90	Rs. Rupees.	
11	Supplying, fitting and fixing in position G.I. pipes of TATA make for underground works with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbow, nipple, short piece etc. including cost of all materials, jointing materials, cutting pipes, making threads, cutting trenches upto 1.5 metre below surface in all sorts of soil and refilling the same as directed with two coats of painting on G.I. pipes and specials with bituminous paint complete in all respect. (Payment will be made on the centre line measurement of the total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made seperately): 80 mm dia. medium quality	Mtr	190	Rs. Rupees.	
12	Supplying, fitting and fixing Chromium plated Bib Cock with wall flange (Equivalent to Code No. 5047 & Model - Florentine of Jaquar or similar brand).	Each	40	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
13	Supplying, fitting and fixing Chromium plated concealed Stop Cock heavy duty (Equivalent to Code No. 5083 & Model - Florentine of Jaquar or similar brand).	Each	100	Rs. Rupees.	
14	Providing, fitting and fixing gun metal gate valve with C.I. wheel of approved brand and make tested to 21 kg per sq.cm. (for water lines only).				
	a) 20 mm	Each	20	Rs. Rupees.	
	b) 25 mm	Each	10	Rs. Rupees.	
	c) 40 mm	Each	10	Rs. Rupees.	
	d) 50 mm	Each	3	Rs. Rupees.	
15	Providing and placing on terrace (at all floor levels) 500 litre capacity polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Rate for each 500 litre capacity = 500 x Rs.7.25/litre = Rs.3625.00 per each	Each	20	Rs. Rupees.	
Sanitary Installation					
16	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with G.I. Pipe brackets in wall, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the brackets with two coats of approved paint:550 mm X 400 mm size	Each	20	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
17	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Each	20	Rs. Rupees.	
18	Providing and fixing 600 x 450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete.	Each	20	Rs. Rupees.	
19	Supplying, fitting and fixing Chromium plated round shower with revolving joint 100 mm dia with rubid cleaning system (Equivalent to Code No. 542(N) & Model -Tropical / Sumthing Special of ESSCO or similar brand).	Each	20	Rs. Rupees.	
20	Providing and fixing Toilet Paper Holder: C.P. brass.	Each	20	Rs. Rupees.	
21	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	20	Rs. Rupees.	
22	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	20	Rs. Rupees.	
23	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour: 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	20	Rs. Rupees.	
24	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	Each	20	Rs. Rupees.	
25	Providing and fixing 100mm sand cast iron grating for gully, floor or nahani trap.	Each	20	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
26	Supplying, fitting and fixing approved brand P.V.C. Connector white flexible, with bolts ends coupling with heavy brass C.P.nut, 15 mm dia. : 600 mm long	Each	20	Rs. Rupees.	
27	Providing and fixing 75 mm dia. soil, waste and vent pipes : Sand cast iron S&S pipe as per IS: 1728	Meter	30	Rs. Rupees.	
28	Providing and fixing 100 mm dia. soil, waste and vent pipes : Sand cast iron S&S pipe as per IS: 1729	Meter	102	Rs. Rupees.	
29	Providing and fixing 75 mm dia. sand cast iron S&S bend as per IS: 1729 of required degree with excess door insertion rubber washer 3 mm thick bolts & nuts complete.	Meter	10	Rs. Rupees.	
30	Providing and fixing 100 mm dia. sand cast iron S&S bend as per IS: 1729 of required degree with excess door insertion rubber washer 3 mm thick bolts & nuts complete.	Meter	20	Rs. Rupees.	
31	Providing and fixing 100x100x100x100mm Sand cast iron S&S as per IS - 1729 double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :	Each	20	Rs. Rupees.	
32	Renewing cast iron inspection door with bolts and nuts complete for fittings of 50mm dia to 150mm dia.H.C.I.pipe.	Each	20	Rs. Rupees.	
33	Providing and fixing 100 mm inlet and 75 mm outlet Sand Cast Iron S&S as per IS- 1729 Trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :	Each	20	Rs. Rupees.	
Drainage					
34	Providing, laying and jointing glazed 200 mm diameter stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :	M	60	Rs. Rupees.	
35	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around 200 mm diameter S.W. pipes including bed concrete as per standard design:	M	60	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
36	Providing and fixing square-mouth 150 x 100 mm size P type S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5	Rs. Rupees.	
37	Supplying and fixing C.I. cover without frame for manholes : 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	5	Rs. Rupees.	
Roofing					
38	Providing and fixing on wall face unplasticised 110 mm dia. Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion:	M	70	Rs. Rupees.	
39	Providing and fixing on wall face unplasticised PVC moulded fitting/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.				
	a) 110x110x110 mm Single tee with door	Each	10	Rs. Rupees.	
	b) 110 mm Shoe(Plain)	Each	10	Rs. Rupees.	
40	Providing and fixing unplasticised - 110 mm diameter PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50 x 50 x 50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1Cement : 4Coarse sand) and making good the wall etc. complete.	Each	60	Rs. Rupees.	
Earth work					
41	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m: in all kinds of soil.	Cum	10	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
42	Excavating trenches of required width for pipes exceeding 80 mm dia. but not exceeding 300 mm dia. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil:	M	135	Rs. Rupees.	
43	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be levelled and neatly dressed : in all kinds of soil.	100 sqm	1000	Rs. Rupees.	
44	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	25	Rs. Rupees.	
Brick work					
45	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in 1:6 grade (1 cement: 6 coarse sand).	Cum	15	Rs. Rupees.	
46	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 1:6 grade (1 cement : 6 coarse sand).	Cum	20	Rs. Rupees.	
47	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth upto floor V level in cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm	15	Rs. Rupees.	
Cement concrete work					
48	Providing and laying in position 1:2:4 (1 Cement : 2 Coarse Sand : 4 graded stone aggregate 20 mm nominal size) cement concrete of specified grade excluding the cost of centering and shuttering, all the work are to plinth level	Cum	25	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
49	Providing and laying cement concrete 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 blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	5	Rs. Rupees.	
50	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	Sqm	500	Rs. Rupees.	
51	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	650	Rs. Rupees.	
Reinforced cement concrete					
52	Cleaning the concrete surface by removing dirt and debris, making defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer-in-charge.	Sqm	50	Rs. Rupees.	
53	Providing and laying specified grade of reinforced cement concrete work excluding the cost of centering, shuttering, finishing & reinforcement all work upto plinth level with 1:1.5:3 (1cement: 1.5coarse sand: 3graded aggregate 20mm nominal size).	Cum	1	Rs. Rupees.	
54	Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, columns, pillars, piers, abutments, posts and struts etc upto floor V level excluding cost of centering, shuttering, finishing and reinforcement in 1 : 1.5 : 3 (1cement: 1.5coarse sand: 3graded: aggregate 20mm nominal size).	Cum	6.5	Rs. Rupees.	
55	Centering & shuttering including strutting, propping etc & removal of form for plinth beams, cantilevers etc.	Sqm	28	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
56	Centering and shuttering including strutting, propping etc. and removal of form for : Edges of slabs and breaks in floors and walls: Under 20 cm wide	Metre	120	Rs. Rupees.	
57	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding at all floor levels all complete. Hot rolled deformed bars.	Kg	750	Rs. Rupees.	
Finishing					
58	12mm cement plaster of mix 1:4 (1cement: 4coarse sand)	Sqm	925	Rs. Rupees.	
59	12 mm. cement plaster finished with a floating coat of neat cement of mix 1:4(1 cement : 4 fine sand).	Sqm	200	Rs. Rupees.	
60	15mm cement plaster on rough side of mix 1:4 (1cement: 4coarse sand)	Sqm	1550	Rs. Rupees.	
61	6mm cement plaster to ceiling of mix 1:3 (1cement: 3 fine sand)	Sqm	400	Rs. Rupees.	
62	Removing white or colour wash/exisitng paint and the like by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	2000 <i>2500</i>	Rs. Rupees.	
63	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	3000	Rs. Rupees.	
64	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	2000	Rs. Rupees.	
65	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification: Two or more coats on new work	Sqm	2000	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
66	Applying priming coats With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood).	Sqm	220	Rs. Rupees.	
67	Applying priming coats With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	300	Rs. Rupees.	
68	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	520	Rs. Rupees.	
69	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm	1000	Rs. Rupees.	
Flooring					
70	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) 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 @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	230	Rs. Rupees.	
71	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	Sqm	70	Rs. Rupees.	
Water proofing					
72	Demolishing lime concrete manually/ by mechanical means and disposal of material at specified location as per direction of Engineer in charge.	Cum	60	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
73	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) admixed plasocrete super/epoxy/latex compound of approved brand and in the proportion as per the manufacturer specification. (Note - the applicator is to be specialised in such type of work as per specification and maintain the I.S.I. Marked of the ingredients of the application.	Cum	40	Rs. Rupees.	
74	Providing and laying 3 mm thick APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 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 manufactured 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 physical and chemical 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 manufacturer of membrane. The firm shall also furnish the guarantee bond for 5 years for the execution of all items under waterproofing works sub-head (as per appendix -25, of CPWD-12 Manual copy enclosed.)	Sqm	600	Rs. Rupees.	
Wood work					
75	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	Cum.	3	Rs. Rupees.	
76	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	200	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
77	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 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters with 35mm thick ISI marked stainless steel butt hinges with necessary screws.	Sqm.	84	Rs. Rupees.	
78	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws.	Sqm.	34	Rs. Rupees.	
79	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws:Kiln seasoned and chemically treated hollock wood:35 mm thick	Sqm	10	Rs. Rupees.	
80	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer in-charge.Extruded section profile size 48x40 mm	M	102	Rs. Rupees.	

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Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
81	Providing and fixing factory made 30 mm thick Decorative finish (both side wood grained finish) door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.	Sqm	34	Rs. Rupees.	
82	Providing and fixing ISI marked aluminium butt hinges 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:75x63x3.2 mm	Each	60	Rs. Rupees.	
83	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	Each	120	Rs. Rupees.	
84	Providing and fixing 40 mm special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Godrej make).	Each	20	Rs. Rupees.	
85	Providing and fixing aluminium handles, 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 :	Each	160	Rs. Rupees.	
86	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (Godrej make).	Each	20	Rs. Rupees.	

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SCHEDULE OF QUANTITY

Name of the work "Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9."

Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
87	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 :				
	a) 300x16 mm	Each	40	Rs. Rupees.	
	b) 250x16 mm	Each	20	Rs. Rupees.	
Aluminium work					
88	Providing & fixing Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) for doors, windows, ventilators with extruded built up standard tabular sections of approved make conforming to IS:733 & IS:1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom, and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight mitred and jointed mechanically wherever required including cleat angle, aluminum snap beading for glazing/panelling, C.P.brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-Charge. For shutters of doors, windows & ventilators including providing & fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/ neoprene gasket required.	Kg	550	Rs. Rupees.	

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SCHEDULE OF QUANTITY

Name of the work "Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9."

Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
89	Providing & fixing Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) for partitions with with extruded built up standard tabular sections of approved make conforming to IS:733 & IS:1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom, and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight mitred and jointed mechanically wherever required including cleat angle, aluminum snap beading for glazing/panelling, C.P.brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-Charge. For fixed portion.	Kg	650	Rs. Rupees.	
90	Providing & fixing glazing in aluminum door, window, ventilator shutters, and partition etc with PVC / neoprene gasket etc. Complete as per the architectural drawing and the direction of Engineer-in-Charge with glass panes of 5.5 mm thickness.	Sqm	200	Rs. Rupees.	
91	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and the direction of Engineer In Charge complete: upto 5mm depth and 5 mm width.	M	400	Rs. Rupees.	
Steel Works					
92	Steel work welded in built up section/ framed work including cutting hoisting fixing in position and applying one coat of primer of approved brand as required guard bar in frames, guard bar, ladder, railing, and similar works.	Kg	5500	Rs. Rupees.	
Miscellaneous					
93	Supplying and fixing in position vertical blinds (levelor) made with 100 mm wide fabrics of approved quality, make and shade assembled on top aluminium frame (33 mm x 28 mm x 1.2 mm) with powder coated (approx 50 micron) with high quality nylon runners with auto clutch mechanism, stainless steel master runners, stainless steel fitter chains and PVC end covers. The bottom end of the fabrics are suspended with a weight which are to be connected by link chains. All complete as per manufacturer's specifications. Rate should including 3" overlapping of fabrics beyond the window/curtain wall opening all complete as per direction with all labour and materials (Measurement to be made on the opening size)	Sqm	25	Rs. Rupees.	

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SCHEDULE OF QUANTITY

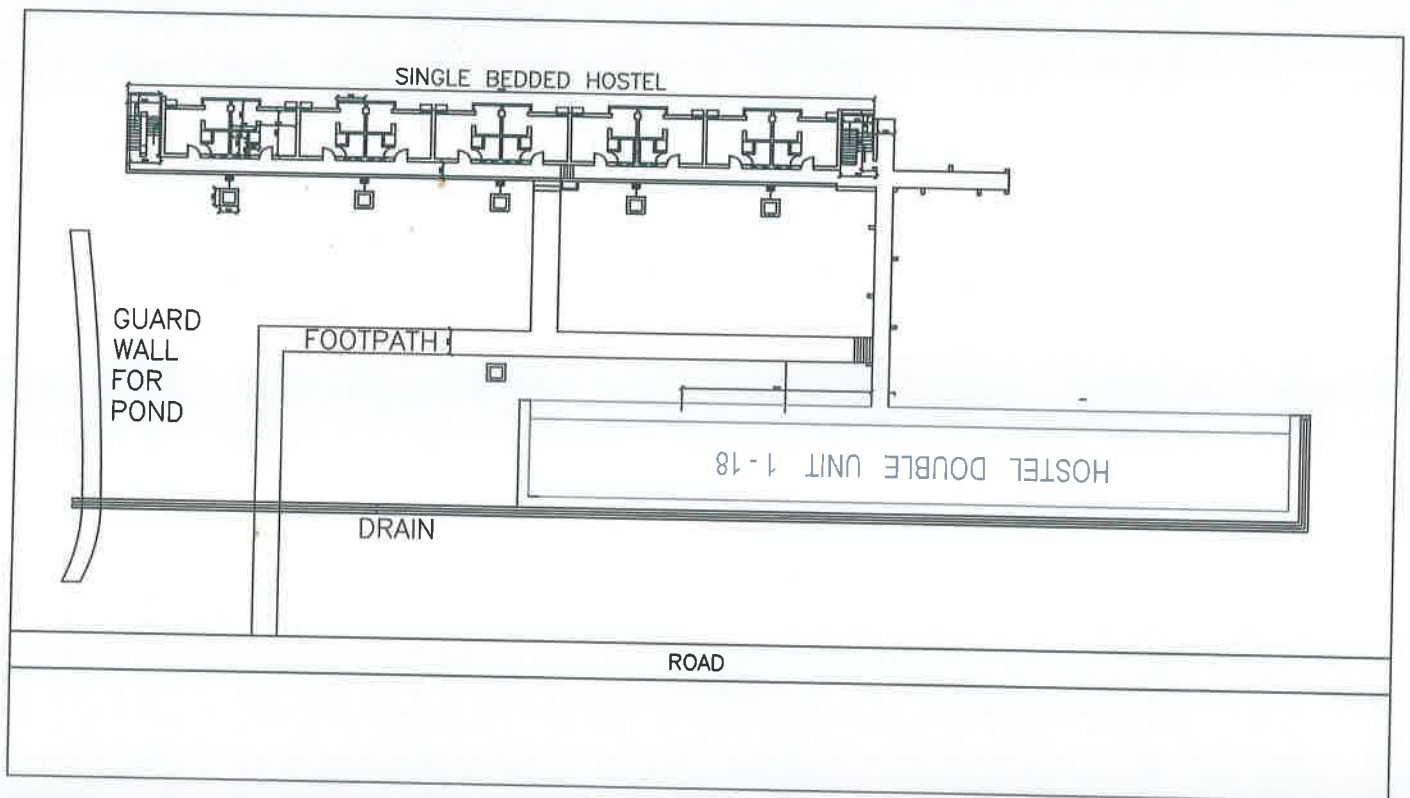
Name of the work "Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9."

Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs)
	Total				
	(Rupees In Words)				

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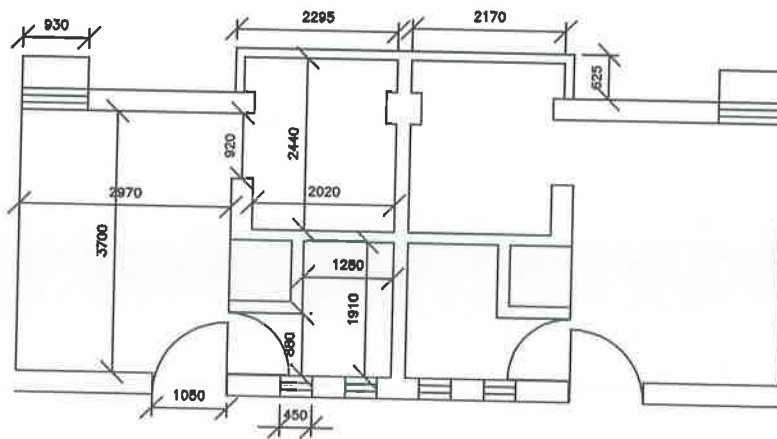
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MODIFIED PLAN VIEW OF EXECUTIVE GUEST HOUSE AT CSIR-CMERI COLONY OF SINGLE BEDDED HOSTEL

Jay L. Gupta
03/10/16

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EXISTING PLAN VIEW OF EXECUTIVE GUEST HOUSE
AT CSIR-CMERI COLONY OF SINGLE BEDDED HOSTEL

Jay L. Anshu
03/10/16

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APPENDIX – 25

(Reference para 22.5(1))

GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

The Agreement made this day of two thousand and between son of of (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor, *inter alia*, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be five years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor and by and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

Signed, sealed and delivered by OBLIGOR in the presence of—

- 1.
- 2.

Signed for and on behalf of THE PRESIDENT OF INDIA by in the presence of—

- 1.
- 2.

Jay L. Gupta
03/10/16

[Signature]
9/10/16

**CSIR-CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
M.G.AVENUE, DURGAPUR- 713209, INDIA**

Name of the work: "Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9."

LIST OF APPROVED MAKES FOR CIVIL WORK.

1. The Contractor shall obtain approval from the Engineer-In-Charge before placing order for any specific material or engaging any of the specialized agencies.
2. Wherever applicable. The Engineer-In-Charge may approve any material equivalent to that specified in the tender subject to proof being offered by the Contractor for equivalence to his satisfaction.
3. Unless otherwise specified, in the tender document all the materials which are ISI Marked shall be used in the work and if the ISI marked materials are not available, materials conforming to IS shall be used, and for the materials which are neither ISI marked not conform to IS, the manufacturer's Specification shall be followed.

S. No.	Description	Approved Makes
1	CEMENT	ACC, LAFARGE, ULTRATECH,
2	COARSE SAND	CONFORMING TO ZONE -III
3	Water-proofing material	Dr. FIXIT, FOSROC, SIKA
4	APP (Atactic Polypropylene Polymer)	Dr. FIXIT, BITUMAT
5	PRIMER, PAINTS, CEMENT PAINT	1st Quality paints of Asian/ Berger /Nerolac / AkzoNobel.
6	G.I.PIPES	TATA MAKE
7	G.I. Fittings	UNIK/R brand/KS/Zoloto-M/KENT/ISI MARKED
8	GUNMETAL WHEEL VALVE	HM/LEADER/SHAKTI
9	REINFORCEMENT & STRUCTURAL STEEL	TATA MAKE
10	C.P.BIBCOCK & STOP COCK	JAGUAR BRAND
11	P.V.C. WATER STORAGE TANK	SINTEX
12	SANITARY ITEMS	PARRYWARE
13	PVC RW PIPES, C.I. & S.W. ITEMS	IS:13592 & IS:5382, CONFORMING TO IS:1729 & BIS APPROVED
14	CERAMIC GLAZED WALL & FLOOR TILES	KAJARIA
15	FLUSH DOOR	IS:2202 & 2046 GREEN PLY, CENTURY PLY
16	SOLID PVC FOAM PROFILE SHUTTER	RAJSHRI
17	ALUMINIUM	JINDAL, INDAL, HINDALCO, ALOM
18	GLASS	SAINT GOBIN, MODIGUARD
19	BRASS & CUPBOARD LOCKS	GODREJ
20	VERTICAL BLINDS	VISTA LEVELOR

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**CSIR-CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
M.G.AVENUE, DURGAPUR- 713209, INDIA**

Scope of work & other details

03.10.2016

NAME OF THE WORK: Upgradation of Single Room Hostel into Guest House at CSIR-CMERI Colony, Dgp-9.

A. SCOPE OF WORK: The scope of work includes the following:

1. Dismantling of old plaster and re-plastering admixed with water proofing compound for ceiling, internal and external
2. Dismantling of damaged CC, RCC and brickwork and reconstruction of same.
3. Taking out damaged door frames, doors, windows and ventilators.
4. Replacement of G.I.Pipes (water line), C.I.Pipe line, S.W., and RW Pipe line.
5. Replacement of damaged sanitary works and fittings.
6. Replacement of water storage tank by 500 litres capacity PVC Tanks.
7. External painting of wall with Premium Acrylic Smooth exterior paint with Silicone additives of required shade application of wall putty.
8. Internal painting with 1st quality acrylic distemper (ready mixed) after application of wall putty and cement primer.
9. Synthetic enamel paint with primer for railing, internal doors.
10. Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part-1) non-decorative type for door cupboards with new frame.
11. Providing and fixing factory made 30 mm thick Decorative finish (both side wood grained finish) door shutter with solid PVC foam profile for bath & w/c.
12. Providing and laying Ceramic glazed floor and wall tiles for bath & w/c only.
13. Water-proofing treatment of roof by grading roof with Cement concrete 1:2:4 admixed plasocrete super/epoxy compound of approved brand and in the proportion as per the manufacturer specification and laying APP (A Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane.
14. Providing & fixing Anodised aluminium for windows, ventilators and backside partition.
15. Providing steel grills for windows, ventilators, backside partition and front steel railing.
16. Providing and fixing vertical blinds in windows.

B. Rates: The rates has been arrived based on DSR-14 and WBPWD -15.

C. Specifications: CPWD Specification of items of the work for the execution of the said work shall be followed.

D. Works Manual: The said proposal has been prepared based on **CPWD Works Manual 2014.**

E. Method: The method proposed for carrying out the project is Item Rate Contract.

F. Time: The estimated time of completion from the date of receipt of work order shall be Five (05) months.

Submitted by

A.K. Gupta
03/10/16
A.K. Gupta
(AEE, Civil)

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4/10/16