

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


SCOPE OF WORK

NAME OF WORK: Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017.

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

1. Plumbing works, sanitary installation works, drainage, chokages.
2. Rectification of leakages in W.C., Bath and kitchen.
3. Replacement of GI Pipe in the duct.
4. Cleaning of RW Pipe, spouts, drains, roofs, inspection pit, G.I.Pipes and removing of dead animals.
5. Collection of garbage from the staff quarters, garbage duct of MS Building and disposing the same at DMC specified garbage vats.
6. Operation & maintenance of valves, pumps for the water supply at CSIR-CMERI Old & New Colony alongwith allied civil water line works as per the enclosed duty roster, has been considered as per the instruction of Head ESD.

Submitted By:


(Ajay Kumar Gupta)
(AEE, Civil)

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(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)**

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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
	G.I. Pipes	Tata
	G.I. Fittings	UNIK/R brand/KS/Zoloto-M/KENT/ISI MARKED
	CEMENT	ACC, LAFARGE , ULTRATECH, BIRLA
	SANITARY INSTALLATION & FITTINGS	PARRYWARE, HINDWARE, JAGUAR
	BIBCOCK, STOP COCK	HM, LEADER, SHAKTI
	STAINLESS STEEL KITCHEN SINK	as per IS 13983
	SAND CAST IRON S&S PIPES & FITTINGS	as per IS: 1729
	S.W. pipe	CONFORMING TO IS
	Rigid PVC rain water pipes & FITTINGS	IS : 13592 Type A

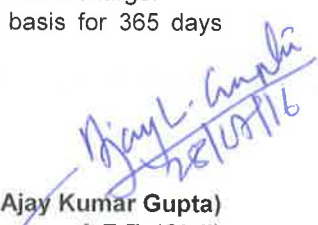
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ANNEXURE-I**No. of Labours to be engaged for Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017.**

Sl. No.	Description	Type of worker	Remarks
1	Plumbing/ Sanitary/Drainage/Roofing etc. Works	Plumber - 1 No.	During peak load of jobs, in order to complete the work in expected time, no. of labour shall be increased and vice-versa.
		Helper - 1 No.	
2	Garbage Collection/Chokage/ Misc. Works	Helper - 3 Nos.	During peak load of jobs, in order to complete the work in expected time, no. of labour shall be increased and vice-versa.
3	Operation & maintenance of valves, pumps for the water supply at CSIR-CMERI Old & New Colony alongwith allied civil water line works	Skilled Plumber cum pump operator - 2 Nos,	Please refer duty rooster which shall be followed.

N.B:

1. In addition to the above, one graduate engineer shall be engaged by the firm in order to supervise/record the work done, as instructed by the Engineer-in-Charge.
2. The requirement of labour as above may be increased depending on the load of jobs & nature of job.
3. The job card issued to the firm shall be completed within the expected date of completion (E.D.C) as mentioned by the engineer -in - charge in the job card itself. .
4. The above mentioned worker shall perform the duty as per the instruction of the Engineer-in-charge.
5. The pump operation, garbage collection & removing chokages shall be on daily basis for 365 days including Saturday, Sunday, holidays.
6. No claim for idle labour shall be entertained for the execution of the jobs.


(Ajay Kumar Gupta)
A.E.E. (Civil)
ESD, Colony

SCHEDULE OF QUANTITY

Name of the work:- " Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017"

Item	Particulars of items	Unit	Qnty	Rate	Amount
	Water supply				
1	Labour for dismantling G.I. pipe with fittings, excavation and refilling trenches after taking out the pipes/ making good the walls including stacking of pipes at a location specified by Engineer-in-charge..				
1a	15 - 32 mm nominal bore	Mtr	315	Rs. Rupees.	
1b	40 - 65 mm nominal bore	Mtr	80	Rs. Rupees.	
1c	80 mm nominal bore	Mtr	30	Rs. Rupees.	
2	Opening out leaky water supply pipe and making the joints water tight including cutting threads where necessary: upto 40 mm dia.	Each	100	Rs. Rupees.	
3	Opening out leaky water supply pipe and making the joints water tight including cutting threads where necessary: 50 mm dia.	Each	20	Rs. Rupees.	
4	Opening out leaky water supply pipe and making the joints water tight including cutting threads where necessary: 65 mm to 100 mm dia.	Each	10	Rs. Rupees.	
5	Renewing brass spindle and valve of 15 mm NB stop cock/ bib cock/ pillar cock.	Each	40	Rs. Rupees.	
6	Renewing brass spindle and valve of 20 mm NB stop cock/ bib cock/ pillar cock.	Each	5	Rs. Rupees.	
7	Cutting out pipe and making threads.				
	i) upto 20 mm dia.	Each	75	Rs. Rupees.	
	ii) Above 25 mm upto 50 mm dia.	Each	15	Rs. Rupees.	
	iii) Above 50 mm upto 80 mm dia	Each	5	Rs. Rupees.	

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SCHEDULE OF QUANTITY

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Item	Particulars of items	Unit	Qty	Rate	Amount
8	Rewashing 15mm stop cock/bib cock/ push cock/ pillar cock including gland packing if necessary.	Each	150	Rs. Rupees.	
9	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): (A) For Exposed Work				
	a) 15 mm dia. medium quality	Mtr	100	Rs. Rupees.	
	b) 20 mm dia. medium quality	Mtr	30	Rs. Rupees.	
	c) 25 mm dia. medium quality	Mtr	30	Rs. Rupees.	
	d) 40 mm dia. medium quality	Mtr	30	Rs. Rupees.	
	e) 50 mm dia. medium quality	Mtr	10	Rs. Rupees.	
	f) 80 mm dia. medium quality	Mtr	10	Rs. Rupees.	

Day L. Gupta

SCHEDULE OF QUANTITY

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Item	Particulars of items	Unit	Qty	Rate	Amount
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 accessories, specials. Payment for painting will be made seperately): (B) For Concealed Work				
	a) 15 mm dia. medium quality	Mtr	30	Rs. Rupees.	
	b) 20 mm dia. medium quality	Mtr	20	Rs. Rupees.	
	c) 25 mm dia. medium quality	Mtr	10	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)				
	a) 15 mm dia. medium quality	Mtr	50	Rs. Rupees.	
	b) 20 mm dia. medium quality	Mtr	30	Rs. Rupees.	

Dayal Singh

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Item	Particulars of items	Unit	Qty	Rate	Amount
	c) 25 mm dia. medium quality	Mtr	15	Rs. Rupees.	
	d) 40 mm dia. medium quality	Mtr	20	Rs. Rupees.	
	e) 50 mm dia. medium quality	Mtr	20	Rs. Rupees.	
	f) 80 mm dia. medium quality	Mtr	20	Rs. Rupees.	
12	Making connection of G.I. Distribution branch with G.I.main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete.				
	a)25mm to 40 mm nominal bore	Each	5	Rs. Rupees.	
	b)50mm to 80 mm nominal bore	Each	5	Rs. Rupees.	
13	Providing and fixing brass bib-cock of approved quality: 15 mm nominal bore	Each	20	Rs. Rupees.	
14	Suppling,fitting and fixing 15 mm CP Pillar cock (Equivalent to code no.507 & Model Tropical/Sumthing special of ESSCO BRAND).	Each	30	Rs. Rupees.	
15	Providing and fixing brass stop cock of approved quality: 15 mm nominal bore				
	a) 15 mm nominal bore	Each	40	Rs. Rupees.	
	b) 20 mm nominal bore	Each	5	Rs. Rupees.	
16	Providing and fixing CP brass shower rose with 15mm or 20mm inlet: 150 mm dia.	Each	30	Rs. Rupees.	

Ang L. Singh

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Item	Particulars of items	Unit	Qty	Rate	Amount
17	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only).				
	a) 100 mm dia	Each	2	Rs. Rupees.	
	b) 80 mm dia	Each	5	Rs. Rupees.	
	c) 50 mm dia	Each	5	Rs. Rupees.	
	d) 40 mm dia	Each	5	Rs. Rupees.	
	e) 25 mm dia	Each	5	Rs. Rupees.	
	f) 20 mm dia	Each	5	Rs. Rupees.	
18	Providing and fixing ball valve (brass) of approved quality complete: High or low pressure with plastic floats.				
	a)15mm nominal bore	Each	10	Rs. Rupees.	
	b)20mm nominal bore	Each	20	Rs. Rupees.	
	c)25mm nominal bore	Each	50	Rs. Rupees.	
19	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
	a)15mm	Each	2	Rs. Rupees.	

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Item	Particulars of items	Unit	Qty	Rate	Amount
	b)20mm	Each	2	Rs. Rupees.	
	b)25mm	Each	2	Rs. Rupees.	
20	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
	a)15mm	Each	40	Rs. Rupees.	
	b)20mm	Each	40	Rs. Rupees.	
	c)25mm	Each	15	Rs. Rupees.	
	d)40mm	Each	5	Rs. Rupees.	
	e)50mm	Each	5	Rs. Rupees.	
	f)80mm	Each	6	Rs. Rupees.	
21	Supply of GI plane equal elbow of approved brand and make				
	a)15mm	Each	80	Rs. Rupees.	
	b)20mm	Each	80	Rs. Rupees.	
	c)25mm	Each	30	Rs. Rupees.	

Jay L. Singh

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Item	Particulars of items	Unit	Qty	Rate	Amount
	d)40mm	Each	10	Rs. Rupees.	
	e)50mm	Each	10	Rs. Rupees.	
	f) 80mm	Each	10	Rs. Rupees.	
22	Supply of GI plane tee of approved brand and make				
	a)15mm	Each	75	Rs. Rupees.	
	b)20mm	Each	40	Rs. Rupees.	
	c)25mm	Each	10	Rs. Rupees.	
	d)40mm	Each	10	Rs. Rupees.	
	e)50mm	Each	5	Rs. Rupees.	
	f) 80mm	Each	5	Rs. Rupees.	
23	Supply of GI Socket with ISI Mark				
	a)15mm	Each	50	Rs. Rupees.	
	b)20mm	Each	50	Rs. Rupees.	
	c)25mm	Each	20	Rs. Rupees.	

May 2017

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Item	Particulars of items	Unit	Qty	Rate	Amount
	d)40mm	Each	10	Rs. Rupees.	
	e)50mm	Each	10	Rs. Rupees.	
	f) 80mm	Each	10	Rs. Rupees.	
24	Supply of G.I. short piece of TATA make (Above 50mm & upto150 mm long).				
	a)15mm	Each	100	Rs. Rupees.	
	b)20mm	Each	75	Rs. Rupees.	
	c)25mm	Each	50	Rs. Rupees.	
	d)40mm	Each	20	Rs. Rupees.	
	e)50mm	Each	20	Rs. Rupees.	
	f) 80mm	Each	10	Rs. Rupees.	
25	Supply of G.I. union of approved brand and make				
	a)15mm	Each	25	Rs. Rupees.	
	b)20mm	Each	25	Rs. Rupees.	

Ray L. Gupta

SCHEDULE OF QUANTITY

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Item	Particulars of items	Unit	Qty	Rate	Amount
	c)25mm	Each	20	Rs. Rupees.	
	d)40mm	Each	15	Rs. Rupees.	
	e)50mm	Each	15	Rs. Rupees.	
	f) 80mm	Each	10	Rs. Rupees.	
26	Supply of G.I. reducing socket with I.S.I. mark.				
	a)20mm	Each	50	Rs. Rupees.	
	b)25mm	Each	25	Rs. Rupees.	
	c)40mm	Each	20	Rs. Rupees.	
	d)50mm	Each	10	Rs. Rupees.	
	e) 80mm	Each	5	Rs. Rupees.	
27	Supply of G.I. reducing tee of approved brand and make				
	a)20 mm X 15 mm	Each	50	Rs. Rupees.	
	b)25 mm X 15 mm	Each	20	Rs. Rupees.	

Bayh. Gupta

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Item	Particulars of items	Unit	Qty	Rate	Amount
	c)25 mm X 20 mm	Each	20	Rs. Rupees.	
	d)40 mm X 15 mm	Each	10	Rs. Rupees.	
	e)40 mm X 20 mm	Each	10	Rs. Rupees.	
	f)40 mm X 25 mm	Each	10	Rs. Rupees.	
	g)50 mm X 25 mm	Each	10	Rs. Rupees.	
	h)50 mm X 40 mm	Each	5	Rs. Rupees.	
	i)80 mm X 50 mm	Each	5	Rs. Rupees.	
28	SSupply of G.I. reducing elbow. of approved brand and make .				
	a)20 mm X 15 mm	Each	30	Rs. Rupees.	
	b)25 mm X 15 mm	Each	10	Rs. Rupees.	
	c)25 mm X 20 mm	Each	10	Rs. Rupees.	

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Item	Particulars of items	Unit	Qty	Rate	Amount
	d)40 mm X 15 mm	Each	20	Rs. Rupees.	
	e)40 mm X 20 mm	Each	10	Rs. Rupees.	
	f)40 mm X 25 mm	Each	10	Rs. Rupees.	
	g)50 mm X 25 mm	Each	10	Rs. Rupees.	
	h)50 mm X 40 mm	Each	10	Rs. Rupees.	
	i)80 mm X 50 mm	Each	5	Rs. Rupees.	
29	Supply of G.I. plug of approved brand and make				
	a)15mm	Each	50	Rs. Rupees.	
	b)20mm	Each	50	Rs. Rupees.	
	c)25mm	Each	25	Rs. Rupees.	
	d)40mm	Each	15	Rs. Rupees.	

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Item	Particulars of items	Unit	Qty	Rate	Amount
	e)50mm	Each	10	Rs. Rupees.	
	f) 80mm	Each	5	Rs. Rupees.	
30	Labour for fitting and fixing G.I. specials/necessary accessories (fittings) including cost of jointing materials.				
	(i) Upto 25 mm dia.	Each	1165	Rs. Rupees.	
	(ii) Above 25 mm upto 50 mm dia.	Each	295	Rs. Rupees.	
	(iii) Above 50 mm upto 80 mm dia.	Each	71	Rs. Rupees.	
Sanitary Installation					
31	Dismantling CI or AC rain water pipe 100/75 mm dia. with fittings disposing at a location specified by Engineer-in-charge..	Mtr	110	Rs. Rupees.	
32	Dismantling Indian W.C. including taking out base concrete as necessary.	Each	25	Rs. Rupees.	
33	Dismantling wash basin with brackets with or without waste fittings.	Each	10	Rs. Rupees.	
34	Dismantling sink with brackets with or without waste fittings: above 450mm and upto 600 mm length.	Each	20	Rs. Rupees.	
35	Supplying, fitting and fixing stainless steel sink with drain board 1050 mm X 450 mm X 180 mm complete with waste fittings and two coats of painting of C.I. brackets.	Each	10	Rs. Rupees.	

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SCHEDULE OF QUANTITY

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Item	Particulars of items	Unit	Qty	Rate	Amount
36	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board: 610x460 mm bowl depth 200 mm.	Each	10	Rs. Rupees.	
37	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	50	Rs. Rupees.	
38	Supplying, fitting and fixing approved brand P.V.C. waste pipe with coupling at one end fitted with C.P.over brass nut, 32 mm dia:750 mm long mm long	Each	50	Rs. Rupees.	
39	Waste fitting supplied fitted and fixed complete: CP over brass 32mm	Each	10	Rs. Rupees.	
40	Supplying, fitting and fixing C.I. Bracket including two coats of painting for sink, drain board.	Each	30	Rs. Rupees.	
41	Renewing wooden block of approved variety of size 150mm x 100mm x 75mm with nails and screws for fixing brackets for sinks/basins.	Each	5	Rs. Rupees.	
42	Providing and fixing sand cast iron S&S as per IS: 1729 soil waste & vent pipe				
	a) 100 mm dia.	Mtr	60	Rs. Rupees.	
	b) 75 mm dia.	Mtr	50	Rs. Rupees.	
43	Providing and fixing 100 X 100 X 75 X 75mm sand cast iron S&S as per IS: 1729 double unequal junctions of reqd. degree with excess door insertion rubber washer 3 mm thick bolts & nuts complete.	Each	20	Rs. Rupees.	
44	Providing and fixing 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.				

Day L. Gupta

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Item	Particulars of items	Unit	Qty	Rate	Amount
	a) 100 mm dia.	Each	45	Rs. Rupees.	
	b) 75 mm dia.	Each	20	Rs. Rupees.	
45	Renewing cast iron inspection door with bolts and nuts complete for fittings of 50 mm dia. to 150 mm dia. H.C.I. pipe.	Each	25	Rs. Rupees.	
46	Providing and fixing 100mm inlet & 100mm outlet sand cast iron S&S as per IS: 1729 trap of self cleansing design with screw down or hinged grating with or without vent arm complete including the cost of cutting and making good the walls and floor	Each	25	Rs. Rupees.	
47	Providing and fixing 100 x 100 x 75 sand cast iron S&S as per IS: 1729 single unequal junctions of reqd. degree with excess door insertion rubber washer 3 mm thick bolts & nuts complete.	Each	15	Rs. Rupees.	
48	Supplying, fitting & fixing H.C.I. offset conforming to I.S.S. including jointing complete with or without ear (75 mm projection) and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately: With lead caulked joints				
	a) 100 mm dia.	Each	5	Rs. Rupees.	
	b) 75 mm dia.	Each	5	Rs. Rupees.	
49	Painting sand cast iron soil waste pipe and fittings with paint of any colour such as chocolate grey or buff etc. over a coat of primer (of approved quality) for a new work				
	a) 100 mm dia.pipe	Mtr	60	Rs. Rupees.	

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Item	Particulars of items	Unit	Qty	Rate	Amount
	b) 75 mm dia.pipe	Mtr	50	Rs. Rupees.	
50	Providing lead caulked joint to sand cast iron pipes and fittings of diameter				
	a) 100 mm dia.	Each	20	Rs. Rupees.	
	b) 75 mm dia.	Each	20	Rs. Rupees.	
51	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1 Cement : 2 Fine Sand) in S.C./ CI pipe				
	a) 100 mm dia.	Each	200	Rs. Rupees.	
	b) 75 mm dia.	Each	200	Rs. Rupees.	
52	Providing and fixing MS stays and clamps for sand cast iron pipe of diameter				
	a) 100 mm dia.	Each	25	Rs. Rupees.	
	b) 75 mm dia.	Each	15	Rs. Rupees.	
53	Providing and fixing a pair of white vitreous china footrest 250 x 125 x 25 mm of standard pattern for squatting pan water closet.	Pair	15	Rs. Rupees.	
54	Providing and fixing white vitreous china water closet squatting pan: Orissa pattern W.C. pan of size 580 x 440 mm	Each	25	Rs. Rupees.	
55	Providing and fixing white vitreous china pedestral type (European type/ wash down type) water closet pan.	Each	5	Rs. Rupees.	

Pragati Singh

SCHEDULE OF QUANTITY

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Item	Particulars of items	Unit	Qty	Rate	Amount
56	Providing and fixing black solid plastic seat with lid for pedestal type W.C. pan Parryware/ Hindware / Seabird / Orient (Coral) complete	Each	10	Rs. Rupees.	
57	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : Flat back wash basin of size 550x400 mm	Each	10	Rs. Rupees.	
58	Providing and fixing PVC low level flushing cistern with manually controlled device(handle lever) conforming IS :7231, with all fittings and fixtures complete.: 10 ltrs capacity -white	Each	10	Rs. Rupees.	
59	Suppling,fitting and fixing 32 mm polyethene flush pipe approved make with necessary fixing materials and clamps complete.	Each	50	Rs. Rupees.	
60	Providing and fixing PVC flexible waste pipe for sink and wash basin : 32mm	Each	30	Rs. Rupees.	
61	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	10	Rs. Rupees.	
62	Providing and fixing 600 x 120 x 5 mm glass self with edges round of supported of anodized aluminium angle frame with CP brass bracket and guard rail complete fixed with 40mm long screw, rawl plugs etc., complete.	Each	10	Rs. Rupees.	
63	Providing and fixing CP brass toilet paper holder	Each	5	Rs. Rupees.	
64	Supplying, fitting and fixing C.P.over brass towel rail 25mm dia. And 450 mm long with two brackets.	Each	5	Rs. Rupees.	
65	Providing and fixing 100 mm sand cast iron grating for gully, floor or Nahani trap.	Each	20	Rs. Rupees.	
Drainage					
66	Providing and laying Cement Concrete 1:5:10 (1 Cement : 5 Coarse Sand : 10 graded stone aggregate 40 mm nominal size) all round S.W. pipe including bed concrete as per standard design.				

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SCHEDULE OF QUANTITY

Name of the work:- " Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017"

Item	Particulars of items	Unit	Qty	Rate	Amount
	a) 100 mm dia.	Mtr	50	Rs. Rupees.	
	b) 150 mm dia.	Mtr	20	Rs. Rupees.	
	c) 200 mm dia.	Mtr	20	Rs. Rupees.	
	d) 250 mm dia.	Mtr	15	Rs. Rupees.	
67	Providing and laying jointing glazed stoneware pipes grade 'A' with stiff mixture of Cement Mortar 1:1 (1 Cement : 1Fine Sand) including testing of joints etc. all complete.				
	a) 100 mm dia.	Mtr	50	Rs. Rupees.	
	b) 150 mm dia.	Mtr	20	Rs. Rupees.	
	c) 200 mm dia.	Mtr	20	Rs. Rupees.	
	d) 250 mm dia.	Mtr	15	Rs. Rupees.	
Roofing					
68	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:	Mtr	60	Rs. Rupees.	
69	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.				

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SCHEDULE OF QUANTITY

Name of the work:- " Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017"

Item	Particulars of items	Unit	Qty	Rate	Amount
	a) 110 mm Bend 87.5 deg	Each	10	Rs. Rupees.	
	b) 110 mm Shoe(Plain)	Each	30	Rs. Rupees.	
	a) 110x110x110 mm Single tee with door	Each	30	Rs. Rupees.	
70	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	75	Rs. Rupees.	
	Miscellaneous				
71	Rectification of leakage in WC,bath.kitchen sink,floor by opening the area around floor trap and WC Pan, the fault is to be attended and the area to be mended good as per requirement.The payment of reqd. fitting will be paid separately as per agreement item.The entire work is to be completed in record time i.e within 24 to 48 hours. The above work will include dismantling of floor, wall,taking out and filling up sand/cinder, attending cement joints and making good the entire area after completion of work.	Each	30	Rs. Rupees.	
72	Replacement of GI pipe (upto size 20 mm) inside the duct of MS-Building including the cost labour,fixing of bracket,cutting of wall and mending the same including removing the old pipe but excluding the cost of pipe complete.	Mtr	50	Rs. Rupees.	
73	Cleaning the assorted sizes of the drains (inside the colony campus) after removing the top R.C slab if any and re-fixing the same after cleaning. Removing the garbage / sludge out sides as per instruction and cleaning the top portion both side of the drain by approximate 600mm of jungles, rubbish etc complete including leveling, dressing & disposing the same at the specified location as per the instruction of Engineer-in-charge.	Mtr	20000	Rs. Rupees.	
74	Cleaning the rain water pipes & spouts of different sheds and buildings with split bamboo etc including re-fixing the clamps, nails etc complete if necessary pipes is to be removed re-fixed after cleaning including all labour and materials.	Mtr	1000	Rs. Rupees.	

Dayal Singh

SCHEDULE OF QUANTITY

Name of the work:- " Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017"

Item	Particulars of items	Unit	Qty	Rate	Amount
75	Removing chokage of HCl or S.W, C.I pipe of any dia. and water closet, urinal, waste trap, basin outlet, etc. inside and outside the building / sheds including P or S traps complete with split bamboo/ vacuum for both underground and overground including removing the covers and re-fixing after repair including cutting walls, floors, removal of sludges, clogging roots of plants, trees, green growth, plastics etc complete & disposing the same at the specified location as per the instruction of Engineer-in-charge.and mending damage etc complete.	Mtr	20000	Rs. Rupees.	
76	Removing chokage of yard gully	Each	800	Rs. Rupees.	
77	Removing dead animals etc. to outside the colony campus as directed.	Each	50	Rs. Rupees.	
78	Cleaning silt of inspection pit including removing of top cover and refixing the same.	Each	250	Rs. Rupees.	
79	Supplying, fitting and fixing internal fittings of low -down cistern complete of approved make.	Each Set	50	Rs. Rupees.	
80	Removing chokage in G.I.Pipe upto 25 mm dia. Pipe including cleaning pipe.	Mtr	300	Rs. Rupees.	
81	Removing chokage in G.I.Pipe beyond 25 mm upto 50 mm dia. Pipe including cleaning pipe.	Mtr	50	Rs. Rupees.	
82	Removing chokage in G.I.Pipe beyond 50 mm upto 100 mm dia. Pipe including cleaning pipe.	Mtr	25	Rs. Rupees.	
83	Collection of garbages from all the staff quaters inclusive of both old & new colony campus & garbages from garbage rooms of MS-Building & other garbage vats including cleaning & spreading of bleaching powder in & around these vats on daily basis and disposing the same at DMC specified garbage vats, complete as per the instruction.	Day	365	Rs. Rupees.	

Diya L. Gupta

SCHEDULE OF QUANTITY

Name of the work:- " Annual maintenance works (AMC Civil) for Plumbing, Sanitary, Drainage, Roofing and Miscellaneous works of CMERI both old & new colony for the year 2016-2017"

Item	Particulars of items	Unit	Qty	Rate	Amount
84	Operation & maintenance of valves, pumps for the water supply at CSIR-CMERI Old & New Colony alongwith allied civil water line works as mentioned in the enclosed duty rooster schedule with required desirables of the labour (which shall be strictly followed) & materials viz. tools, grease, gland packing of all sizes, coupling packing of reqd. sizes, hold tight, jute, nuts & bolts, etc on daily basis as per the instruction of Engineer-in-charge.	Day	365	Rs. Rupees.	
85	Supplying, fitting and fixing of rubber door seal with wooden baten in the doors including the cost of nails, screws, etc. as per the instruction of the Engineer-in-charge.	Each	50	Rs. Rupees.	
86	Supplying, fitting and fixing of aluminium sheet in the doors of Bath/W.C including the cost of nails, screws, etc. as per the instruction of the Engineer-in-charge.	Sqm	25	Rs. Rupees.	
87	Periodic cleaning of the roofs of building, the top of chajja or sunshed, wall or any type of projections etc., including removing dry leaves, green growth, removing the roots, uprooting plants, etc. mending the damages, cleaning the area and removing the debris to a safe distance as directed by the Engineer-in-charge. (3 Times in a year)	Sqm	75000	Rs. Rupees.	
	Total				
	(Rupees In Words)				

Payal Singh