### Name of Work:- Repairing and renovation of Quarter no T/III/03/1/SF-1 at 220kV Sarusajai GSS Campus

SI. No.			De	scription	of Iter	n					Qnty	Unit	Rate (Rs)	Amount (Rs)
(A)				CIVIL WO	_									
1	Removing white or colour wa	•	•	nd sand p	paperir	ng and pre	eparir	ig the surf	ace smo	oth including				
	necessary repairs to scratches	etc. comple	ete											
	Standard quantity								=	400.00	400.00	sqm		
2	DISTEMPERING											·		
	Distempering with 1st quality a approved brand and manufact	•												
	13.90.1 Old work (one or more	coats)							=	400.00	400.00	Sqm		
	p) Extra over item no (m), (n) a approved brand and manufact	` '	e for eve	ery subseq	uent c	oat of diste	empe	ring with oi	bound d	istemper of		·		
									=	400.00	400.00	sqm		
3	manufacturer), of approved ma approved by Engineerin- Char (1 cement : 3 coarse sand) and mixed with pigment of matchin	ge, in skirtin d jointing wi	g, risers th grey o	of steps a	nd dad	los, over 1	2 mm	thick bed	of cemen	t mortar 1:3				
Ü		_	•	0		0.00		0.00		00.40				
	Bathroom	2 2	X X	2 2	X X	2.80 1.80	X X		=	22.40 14.40				
	Kitchen	2	^	1.00	X	1.275	X		=	4.85				
									=	41.65	41.65	sqm		
4	Providing and laying Vitrified till absorption less than 0.08% and shade, laid on 20 mm thick cell kg/sqm including grouting the jacero chipping diamond cutter of thickness, leveling system and 11.41A.3 Glazed Vitrified tiles 11.41A.3.1 Size of Tile 600 x 6	d conformin ment mortar oints with w only . Laying rubber mal Matt/Antiski	g to IS:1 1:4 (1 c hite cem of tiles let for pl	5622, of a ement: 4 conent and m will be don acing the ti	pprove coarse atching e with	ed brand & sand) joint g pigments the notch	maniing was etc.	ufacturer, i ith grey ce The tiles m	n all colou nent slur ust be cu	rs and ry @3.3 t with the				

	2 x 2.80 x 1.80 = 10.08	10.08	sqm	
5	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size $59x24$ mm and wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size $75x220$ mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size $20x20$ mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size $100x24$ mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	3.78	sgm	
6	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	1.00	each	
7	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :  18.22.1 100 mm diameter	2	each	
8	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.	3	each	
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each	
10	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.	2	each	
11	Providing and fixing brass bib cock of approved quality :  18.15.1 15 mm nominal	3	each	
12	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	3	each	
13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement	3	Gacii	

	12.43.2 110 mm	6.00	each		
14	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI: 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately	1000.00	Litre		
15	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.				
	18.2.1 1216 (16 mm OD) pipe	25.00	rm		
	18.2.3 2025 (25 mm OD) pipe	20.00	rm		
	ELECTRICAL WORKS				
16	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.1.1 Group A	50	each		
17	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
	1.50.1 Upto 450 mm sweep	3	each		
				Total=	
				Add 18 % GST=	
				Grand Total=	
				Say=	

### Name of Work:- Repairing and renovation of Quarter no T/III/03/1/SF-2 at 220kV Sarusajai GSS Campus

SI. No.				iption (		n					Qnty	Unit	Rate	Amount
(A)			-	IL WOI	_									
1	Removing white or colour vincluding necessary repairs to		-		and pa	apering ar	nd pre	eparing th	ne surf	ace smooth				
	Standard quantity								=	400.00	400.00	sqm		
2	DISTEMPERING Distempering with 1st quality of approved brand and manuf	•	•	•	•	ing VOCM	l conte	ent less th	an 50 <u>զ</u>	grams/ litre				
	13.90.1 Old work (one or more	e coats)							=	400.00	400.000	Sqm		
	p) Extra over item no (m), (n) distemper of approved brand	` '		ery sub	seque	nt coat of	disten	npering wi	th oil b	ound				
									=	400.00	400.000	sqm		
3	Providing and fixing 1st quality by the manufacturer), of appro- size as approved by Engineer cement mortar 1:3 (1 cement pointing in white cement mixe	oved make, in a rin- Charge, in : 3 coarse san	all colo skirtino d) and	ours, sh g, risers jointing	nades s of ste g with	except bur eps and da grey ceme	rgund; ados, ent slu	y, bottle g over 12 m	reen, bl m thick	ack of any bed of	41.65	sqm		
	Bathroom Kitchen	2 2	X X	2 2 1.00	X X X	2.80 1.80 1.275	x x x	2.00 2.00 3.80	= =	22.40 14.40 4.85				
									=	41.65				
4	Providing and laying Vitrified the with water absorption less that colours and shade, laid on 20 cement slurry @3.3 kg/sqm in tiles must be cut with the zero trowel, plier, wedge, clips of reand easily.	n 0.08% and c mm thick cem cluding groutin chipping diam	onforn ent mo ng the j ond cu	ning to ortar 1:4 joints w utter on	IS:156 4 (1 ce vith wh ily . La	622, of apperment: 4 control of the community of tile by the community of tile commu	oroved parse t and s will	d brand & sand) join matching be done w	manufa iting wit pigmer vith the	cturer, in all h grey its etc. The notch				

	11.41A.3 Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1 Size of Tile 600 x 600 mm			
	2 x 2.80 x 1.80 = 10.08	10.08	sqm	
5	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).			
6	2 x 0.90 x 2.10 = 3.78  Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	3.78 1.00	sqm	
	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:	1.00	each	
7	18.22.1 100 mm diameter	2	each	
8	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.	3	each	
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each	
10	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	2	each	
11	Providing and fixing brass bib cock of approved quality :			
	18.15.1 15 mm nominal bore	3	each	
12	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	3	each	

13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement			
	12.43.2 110 mm	5.00	each	
14	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI: 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately	1000.00	Litre	
15	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.			
	18.2.1 1216 (16 mm OD) pipe	23.00	rm	
	18.2.3 2025 (25 mm OD) pipe	18.00	rm	
	ELECTRICAL WORKS			 
16	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.			
	1.1.1 Group A	48	each	
17	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.			
	1.50.1 Upto 450 mm sweep	3	each	
18	Clearance of service septic tank and removing the night soil and debris etc. manually from the tank/chamber to a distant place preferably during holidays or at night by bailing out the deposited night soil, buring the same in near by trenches/pits which has been dug earlier and covering the same. The service septic tank is cleaned with clear water and completed as directed by the Department.			

(b) For 100 users	2	ead	ch		
				Total=	
				Add 18 % GST=	
				Grand Total=	
				Say=	

Name of Work:- Repairing and renovation of Quarter no T/IV/4/1/FF-1 at 220kV Sarusajai GSS Campus.

SI. No.		Descr	iptior	of Iter	n						Qnty	Unit	Rate	Amount
(A)		CIV	IL W	ORKS										
	Removing white or colour wash by necessary repairs to scratches etc.		sand	paperin	g an	d prepar	ing th	ne surface	e smoo	oth including				
	Standard quantity								=	400.00	400.00	sqm		
2	DISTEMPERING													
	Distempering with 1st quality acrylic distember (Ready mix) having VOCM content less than 50 grams/ litre of approved brand and manufacture to give an even shade:													
	13.90.1 Old work (one or more coa	its)							=	400.00	400.000	Sqm		
	· · · · · · · · · · · · · · · · · · ·	Extra over item no (m), (n) and (o) above for every subsequent coat of distempering with oil bound distemper fapproved brand and manufacture.												
									=	400.00	400.000	sqm		
	the manufacturer), of approved ma approved by Engineerin- Charge, in 1:3 (1 cement : 3 coarse sand) and cement mixed with pigment of mate	n skirting, risers o	of step y cem	s and c	lados	, over 1	2 mm	thick bec	of cer	ment mortar	41.65	sqm		
	Bathroom	2	Χ	2	Х	2.80	Х	2.00	=	22.40				
	Kitchen	2	Х	2 1.00	X X			2.00 3.80	= = =	14.40 4.85 41.65				

	2 x 2.80 x 1.80 = 10.08	10.08	sqm	
5	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size $59x24$ mm and wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size $75x220$ mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size $20x20$ mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size $100x24$ mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).			
	2 x 0.90 x 2.10 = 3.78	3.78	sqm	
6	Stainless Steel AlSI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	1.00	each	
	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :			
7	18.22.1 100 mm diameter	2	each	
8	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require.  17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	each	
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each	
10	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	2	each	
11	Providing and fixing brass bib cock of approved quality : 18.15.1 15 mm nominal bore	3	each	
12	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	2	each	
13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement 12.43.2 110 mm	5.00	each	

to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe 20.00 rm 18.2.3 2025 (25 mm OD) pipe 18.00 rm  ELECTRICAL WORKS  Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper		1 ' '' '' '				
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe 20.00 rm 18.2.3 2025 (25 mm OD) pipe 18.00 rm  ELECTRICAL WORKS  Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper		sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor				
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe  20.00 rm  18.2.3 2025 (25 mm OD) pipe  ELECTRICAL WORKS		sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				1
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe 20.00 rm 18.2.3 2025 (25 mm OD) pipe 18.00 rm  ELECTRICAL WORKS  Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper		1 ' '' '' '				
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe  20.00 rm  18.2.3 2025 (25 mm OD) pipe  ELECTRICAL WORKS						
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe  20.00 rm	40	· · · · · · · · · · · · · · · · · · ·		I	1	Г
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.  18.2.1 1216 (16 mm OD) pipe  20.00 rm			18.00	rm		
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.		, , , , , ,		rm		
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per						
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at						
to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend	15	and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at				
		withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend				
		1				
I Providing and fixing Polyethelene-Aluminium- Polyethelene PF-AI -PF Composite Pressure Pipes conforming						
		Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming				
holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately 1000.00 Litre	14	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI: 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately		Litre		

Name of Work:- Repairing and renovation of Quarter no T/IV/4/1/FF-3 at 220kV Sarusajai GSS Campus.

SI. No.				escripti								Qnty	Unit	Rate	Amount
(A)				CIVIL											
1	Removing white or colour including necessary repair	-		. •		nd paperin	g an	ıd p	oreparing	the surf	ace smooth				
	Standard quantity									=	400.00	400.00	sqm		
2	DISTEMPERING														
	Bathroom														
	13.90.1 Old work (one or r	more coats	s)							=	400.00	400.000	Sqm		
	p) Extra over item no (m), distemper of approved bra				ry su	bsequent	coat	of	distempe	ering with	oil bound				
										=	400.00	400.000	sqm		
3	Providing and fixing lst quispecified by the manufacting green, black of any size at 12 mm thick bed of cemer 3.3kg per sqm, including p	urer), of ap s approved nt mortar 1	oproved by E :3 (1 d white d	d make, ngineerir ement : cement r	in all n- Ch 3 coa nixec	colours, s arge, in sk arse sand) I with pigm	hade irting and ent c	es e g, ri joir of n	except bu sers of sinting with natching	irgundy, to teps and grey cent shade co	oottle dados, over nent slurry mplete.	41.65	sqm		
	Bathroom Kitchen	2	X X	2 2 1.00	Х	2.80 1.80 1.275	Х	( (		=	22.40 14.40 4.85 41.65				
4	Providing and laying Vitrifi manufacturer) with water a manufacturer, in all colour sand) jointing with grey ce matching pigments etc. Th will be done with the notch mallet for placing the tiles 11.41A.3 Glazed Vitrified to	absorption as and shad ement slurr ne tiles mu n trowel, pl gently and	less to de, laid y @3. st be d ier, we l easily	nan 0.08 d on 20 r 3 kg/sqm cut with t dge, clip	% an nm th incli he ze s of	d conform nick cemer uding grou ero chippin required th	ing to it mo ting t g dia	o IS orta the amo	5:15622, r 1:4 (1 c joints wi and cutte	of approvement: 4 th white or only . La	coarse ement and lying of tiles				

	11.41A.3.1 Size of Tile 600 x 600 mm			
	2 x 2.80 x 1.80 = 10.08	10.08	sqm	
5	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).			
	$2 \times 0.90 \times 2.10 = 3.78$	3.78	sqm	
6	Stainless Steel AlSI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	1.00	each	
7	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:  18.22.1 100 mm			
	diameter	2	each	
1 X	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.	2	each	
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each	
1 111	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	2	each	
11	Providing and fixing brass bib cock of approved quality : 18.15.1 15 mm nominal	3	each	

	_			1
15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	2	each		
Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain wat pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement	er			
12.43.2 110 mm	5.00	each		
Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI: 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately	1000.00	Litre		
Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.	al			
18.2.1 1216 (16 mm OD) pipe	20.00	rm		
18.2.3 2025 (25 mm OD) pipe	18.00	rm		
ELECTRICAL WORKS				
Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, pheno laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	ic			
1.1.1 Group A	47	each		
Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
1.50.1 Upto 450 mm sweep	2	each		
			Total=	
			Add 18 % GST=	
			Grand Total=	
			Say=	

Name of Work:- Repairing and renovation of Quarter no T/IV/4/1/GF-2 at 220kV Sarusajai GSS Campus.

SI. No.	Description of Item							Qnty	Unit	Rate	Amount			
(A)	CIVIL WORKS													
	Providing and fixing lst 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 Engineerin- 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.							41.65	sqm					
	Bathroom	2	х	2	Х	2.80	Χ	2.00	=	22.40				
		2	Х		Х		Χ	2.00	=	14.40				
	Kitchen			1.00	Χ	1.275	Χ	3.80	=	4.85 41.65	4			
4	water absorption less than 0.08% and co and shade, laid on 20 mm thick cement of a shade, laid on 20 mm thick cement of a shade, laid on 20 mm thick cement of a shade of a shad	mortar 1 ts with w nly . Layi nd rubbe	:4 (1 hite on ng of r ma	cement: cement a f tiles will llet for pla	4 coand make de	arse sand) atching pig one with th	jointing gments ne noto	g with grey s etc. The t th trowel, p	ceme	ent slurry ust be cut	10.08	sqm		
6	Stainless Steel AlSI-304(18/8) Wash bas	sin 530x	345 ı	mm with	single	e 15 mm C	.P. bra	ss pillar ta	р		1.00	each		
	Providing and fixing C.P. brass shower	rose with	า 15	or 20 mm	n inlet	t:								
7	18.22.1 100													
	mm diameter												1	1

8	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.	2	each		
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each		
10	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	2	each		
11	Providing and fixing brass bib cock of approved quality :				
	18.15.1 15 mm nominal bore	3	each		
12	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	2	each		
13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement				
	12.43.2 110 mm	5.00	each		
15	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.				
	18.2.1 1216 (16 mm OD) pipe	20.00	rm		
	18.2.3 2025 (25 mm OD) pipe ELECTRICAL WORKS	18.00	rm		
16	I	<u> </u>		T	
10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.1.1 Group A	15	each		

Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.						
1.50.1 Upto 450 mm sweep	2	each				
Total=						
Add 18 % GST=						
Grand Total=						
Say=						

Name of Work:- Repairing and renovation of Quarter no T/IV/4/1/FF-2 at 220kV Sarusajai GSS Campus.

SI. No.	Description of Item	Qnty	Unit	Rate	Amount
(A)	CIVIL WORKS				
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth				
	including necessary repairs to scratches etc. complete				
	Standard quantity = 400.00	400.00	sqm		
2	DISTEMPERING				
	Distempering with 1st quality acrylic distember (Ready mix) having VOCM content less than 50 grams/ litre of approved brand and manufacture to give an even shade:				
	13.90.1 Old work (one or more coats) = 400.00	400.000	Sqm		
	p) Extra over item no (m), (n) and (o) above for every subsequent coat of distempering with oil bound distemper of approved brand and manufacture.				
	= 400.00	400.000	sqm		
3	Providing and fixing Ist 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 Engineerin- 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.	41.65	sqm		
	2 x 2 x 2.80 x 2.00 = 22.40				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Kitchen 1.00 x 1.275 x 3.80 = 4.85				
	= 41.65				
4	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				

	11.41A.3 Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1 Size of Tile 600 x 600 mm			
	2 x 2.80 x 1.80 = 10.08	10.08	sqm	
5	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multichambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).			
	2 x 0.90 x 2.10 = 3.78	3.78	sqm	
6	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap	1.00	each	
	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:			
7	18.22.1 100 mm diameter	2	each	
8	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:  17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	each	
9	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	2	each	
10	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete.	2	each	
11	Providing and fixing brass bib cock of approved quality: 18.15.1 15 mm nominal bore	3	each	
12	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	2	each	

13	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement 12.43.2 110 mm	5.00	each		
14	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI: 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately	1000.00	Litre		
15	Providing and fixing Polyethelene-Aluminium- Polyethelene PE-AL-PE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work, including cutting chases and making good the wall etc.				
	18.2.1 1216 (16 mm OD) pipe	20.00	rm		
	18.2.3 2025 (25 mm OD) pipe	18.00	rm		
	ELECTRICAL WORKS	1			
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.  1.1.1	45			
17	Group A  Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	45	each		
	1.50.1 Upto 450 mm sweep				
	1.30.1 Obto 430 IIIII 2Meeh	2	each	<u> </u>	
				Total=	
				Add 18 % GST=	
				Grand Total=	
				Say=	