

Tender No.....8.....

NPSC CO-OPERATIVE GROUP HOUSING SOCIETY LTD.

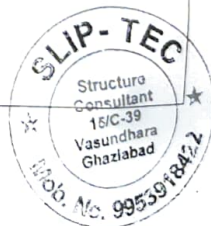
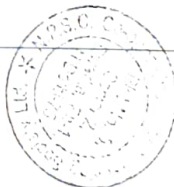
PLOT NO. 05, SECTOR-02, DWARKA, DELHI-110075

Tender For

Gritwash Repair and Plumbing Shaft Repair

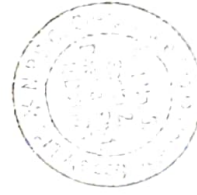
BOOK-2

SCHEDULE OF QUANTITIES



Name of work:-	Gritwash Repair and Plumbing Shaft Repair
Project:-	NPSC CGHS Ltd.
Block:-	A, B, C & D
Floors	STILT + 10
Note:	Use of Lift shall not be permitted for Carriage of Material
Summary of Estimate	
Sr No.	DESCRIPTION
Part-A	GRITWASH REPAIR
Part-B	PLUMBING SHAFT REPAIR
TOTAL [Part-A+B]	
Total Amount In Words	
Total All blocks	

Note: Rates are inclusive GST.

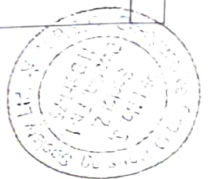


PART A : ABSTRACT FOR GRITWASH REPAIR IN BLOCK A, B, C & D (STILT+10) OF NPSC SOCIETY

SALIENT FEATURES:

- 1 Quantification is limited to the visibly damaged areas of the existing grit wash.
- 2 Scaffolding has been considered only for selective areas not for the entire area.
- 3 Minor patch repair works located at higher elevations have not been considered in the scope.
- 4 During Gritwash repair, any damaged column and beam identified have been accounted for under repair items, included concrete chipping, rest treatment, bonding agent and repair using PMM / PMC.

S.NO	DESCRIPTION OF WORK	UNIT	BLOCK A		BLOCK B		BLOCK C		BLOCK D		DSR REF.
			QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	
1	Gritwash Dismantling Dismantling Gritwash, old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	375		381		618		1141		15 56
2	Gritwash Plaster Washed stone grit plaster on exterior walls of height upto 30 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand: 2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in-charge (Including Removing of tiles and Making grooves to match the elevation).	Sqm	375		381		618		1141		13 72
(a)											
(b)	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :	m	1125		1143		1854		3423		13 73.2
	20 mm wide and 15 mm deep groove										



3	Double Scaffolding Providing and fixing Double Scaffolding System (cup & lock type) on exterior side, upto 30m. Scaffolding can be used for any purpose like plaster, paint, plumbing, electrical etc and nothing extra shall be paid on this behalf. The measurement of scaffolding for one surface will be done once only.	Sqm	450	561	2151	1505	24.2
4	Malba Disposal Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	11	11	19	34	15.7
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.	Cum	3	3	3	3	15.7.4
6	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven. (Plaster demolition or concrete demolition will not be paid in chipping)	Sqm	16	12	15	12	26.28.3
a	25mm average thickness	Sqm	40	40	50	50	26.28.2
b	50mm average thickness	Sqm					





7	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover. Including zinc primer.	Rmt	40					40		50		26 29 1
8	Bars of any Dia Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC. Pre-Packed Bonding Agent to be used											26 31
	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make.	Sqm	40					40		50		26 31.2
9	Structure Grade Repair Mortar Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) Only Premix Repair Mortar to be used											
	Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqm).											
a	25 mm average thickness in 2 layers.	Sqm	16					12		15		26 32 2
b	50 mm average thickness in 3 layers.	Sqm	40					40		50		26 32 3

10 MS WIRE MESH

Providing and fixing hard drawn steel wire fabric of size 75x25mm of gauge 3mm wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by Engineer-in-charge.

Sqm

20

20

20

20

MR

11

Providing and laying fibre glass cloth at the junction of RCC & Brick work before laying plaster.

Sqm

40

40

45

60

MR

TOTAL

GRAND TOTAL INC GST



PART B : PLUMBING SHAFT REPAIR IN BLOCK A, B, C & D (STILT+10) OF NPSC SOCIETY

SALIENT FEATURES:

- 1 Only damaged CI pipes have been considered for replacement.
- 2 All rainwater PVC pipes have been considered for replacement
- 3 Existing Connections of CI to manhole will be used. Item no. 05 of Section -02 to be paid only if new opening is made in existing manhole.
- 4 Making all connections with existing toilet & Kitchen pipe and in sewer line
- 5 Nothing Shall be paid extra or clamps and holdfast
- 6 Paint is not considered
- 7 Repairs of connections are included in the rates.
- 8 All PVC Fittings are included in rates.
- 9 No extra payment shall be made on account of height for any item.

No extra payment shall be made on account of height for any item.																
S.NO	DESCRIPTION OF WORK	UNIT	RATE	BLOCK A			BLOCK B (STILT+10)			BLOCK C (STILT+10)			BLOCK D			DSR REF.
				QTY	AMOUNT		QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT		
SECTION 1 SHAFT REPAIR WORK																
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm		1518			1518			1518			1 122		15 56	
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.														15 2	
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Cum		2			3			3			4		15 2.1	
	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum		1			1			1			1		15 2.2	
3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge															
	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.	Cum		4			4			4			4		15 2.1	
4	In cement mortar	Cum		3			3			3			3		15 7.4	
5	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall. Inc waterproofing compound	Sqm		1518			1518			1518			1 122		13 10	



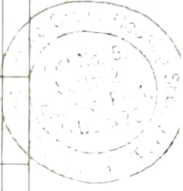


S.NO	DESCRIPTION OF WORK	UNIT	RATE	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	DSR REF.
6	NEW BRICKWORK Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm		3		3		4				6.13.2
7	BOREPACK REPAIR The Bore Pack of pipe with toilet to be packed with micro concrete mix with 50% aggregate	Nos		250		200		264				MR
8	Making Connection of Toilet / Kitchen in Vertical pipe of length one metre approx. The rate are inclusive of removing old tee & then fixing new tee with existing PVC pipe.	Nos		250		200		264				MR
9	MALWA DISPOSAL Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum		5		5		5				15.60
10	SCAFFOLDING Providing & Fixing Double Scaffolding system (Cup & Lock type) on the exterior side. The scaffolding system shall be used for any purpose like demolition, electrical, plumbing or painting work. The payment will be made once irrespective of duration of scaffolding.	Sqm		634		352		563				14.72
TOTAL SECTION 01												
SECTION 02 PLUMBING WORK												
1	DISMANTLING C.I. & G.I PIPE Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :											15.42
(a)	C.I pipe 6"	Rmt		759		396		726				15.42.2

S.NO	DESCRIPTION OF WORK	UNIT	RATE	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	DSR REF.
2	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50metres lead including refilling the excavated gap.	No.		15		15		15		18		15.51
	PVC PIPE											
3	Providing and fixing unplasticied PVC pipes conforming to IS 4985, including all PVC fittings like elbows, socket, Plain Tee & Door Tee Rates are inclusive of Connecting with existing CI Pipes and Fixing pipe with clamps at 1 metre spacing For 33 height											MR
(a)	6" Dia -6kg Pressure	Rmt		759.00		396		462		726		
(b)	4" Dia -6kg Pressure	Rmt		110		110		154		154		
(c)	3" Dia -6kg Pressure	Rmt		10		10		10		10		
4	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :											
a	100 mm diameter S.W. pipe	m		10		10		10		15		19.31
b	150 mm diameter S.W. pipe	m		10		10		10		15		19.32
	Drain Connection											
5	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :											19.21
(a)	For pipes 100 to 250 mm diameter	Nos		15.00		10		10		10		19.21.1



S.NO	DESCRIPTION OF WORK	UNIT	RATE	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	DSR REF.
	GULLY TRAP											
6	Providing and fixing square-mouth 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.											19.4
(a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos		12.00		12		18				19.4 2 1
7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :											19.7
a	Inside size 90x80 cm and 90 cm deep including approved Heavy Duty RCC Cover	Nos		3.00		3		4				
8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge : Internal work - Exposed on wall (RATE ONLY)											MR
a	15 mm nominal outer dia. Pipes	m		5.00		5.00		5.00				18.7 1
b	20 mm nominal outer dia. Pipes.	m		5.00		5.00		5.00				18.7 2
c	25 mm nominal outer dia. Pipes.	m		10.00		10.00		10.00				18.7 3
d	32 mm nominal outer dia. Pipes.	m		10.00		10.00		10.00				18.7 4
9	Temporary Diversion Arrangement Using PVC Type m A Pipe from Vertical Shaft to Nearest Manhole	m		150.00		150.00		180.00				MR



S.NO	DESCRIPTION OF WORK	UNIT	RATE	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	DSR REF.
TOTAL SECTION 02												
SECTION 03 RAINWATER PIPES REPLACEMENT WORK												
1	Dismantling pvc rain water pipe with fittings and clamps including stacking the material within 50 metres lead :											
	PVC Pipe	Rmt		330		330				396		
	PVC PIPE											
	Providing and fixing unplasticied PVC pipes conforming to IS 4985, including all PVC fittings like elbows, socket, Plain Tee & Door Tee Rates are inclusive of Connecting with existing CI Pipes and Fixing pipe with clamps at 1 metre spacing For 33 height											
2	4" Dia -6kg Pressure	Rmt		330		330				396		
	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.											
3		Nos		10.00		10		10		12		12.22
	GULLY CHAMBER (RWH)											
4	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :											
(a)	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	Nos		10.00		10		10		12		
TOTAL SECTION 03												
TOTAL [SECTION 01+02+03]												
GRAND TOTAL INC GST												

