

**SCHEDULE OF QUANTITIES AND RATES OF ITEMS (PROBABLE) FOR BUILDING REPAIR WORK OF THE THREE STORIED BUILDING OF
JAGADISH BOSE NATIONAL SCIENCE TALENT SEARCH (JBNSTS) AT 1300, RAJDANGA MAIN ROAD, KOLKATA-700107**

Sl. No.	Description	Quantity	Unit	Rate	Amount
1	Stripping off worn out plaster and raking out joints of walls, ceilings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	300.00	Sq.M	19.00	5700.00
2	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. (In first floor)	0.25	Cu.M	501.00	125.25
3	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m (a) upto 150 mm. thick In first floor	0.25	Cu.M	999.00	249.75
4	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars. (a) In ground floor including roof. In first floor	0.25	Cu.M	2025.00	506.25
5	Cutting chase upto 125 x 150 mm. and subsequent mending of damages. (a) in brick wall [Cement-3.6 Kg/Mtr]	2.00	Mtr.	101.00	202.00
	(b) in concrete wall [Cement-3.6 Kg/Mtr]	2.00	Mtr.	120.00	240.00

Sl. No.	Description	Quantity	Unit	Rate	Amount
		P-2			
6	Removal of rubbish,earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	12.00	Cu.M	168.00	2016.00
7	Dismantling artificial stone flooring upto 50 mm. thick by carefully chiselling without damaging the base and removing rubbish as directed within a lead of 75 m. In first floor	5.00	Sq.M	56.00	280.00
8	(I) Cement concrete (1:1.5:3 proportion) with graded stone chips (6 mm size excluding shuttering) [Pakur Variety] In first floor	0.50	Cu.M	6900.00	3450.00
9	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, as per relevant IS codes. (i) Pakur Variety In first floor	0.50	Cu.M	6987.00	3493.50
10	Cement concrete (1:1.5:3) with graded stone chips 5.6 mm size with hexagonal square mesh wire netting, I.R.C. fabric mesh or X.P.M. fitted and fixed after				

Sl. No.	Description	Quantity	Unit	Rate	Amount
	tying the existing reinforcement on concrete without distributing the same and with proper scarping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting I.R.C or X. P. M. & cost of all handling and scaffolding complete as per direction of Engineer-in -charge.	P-3			
	c) 37.5mm thick	25.00	Sq. M	668.00	16700.00
11	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping untill 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.	10.00	Sq. M	96.00	960.00
12	Cleaning the exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two (2) coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturer's specification	10.00	Sq. M of affected reinforced area	915.00	9150.00
13	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification. (0.4 Kg / m ² of concrete surface).	10.00	Sq. M	356.00	3560.00
14	(a) Applying 2 coats of bonding agent with synthetic multi functional rubber emulsion having adhesive and water proofing properties by mixing with water in proportion (1 bonding agent : 4 water : 6 cement) as per Manufacturer's specification	10.00	Sq. M	97.00	970.00

SI. No.	Description	Quantity	Unit	Rate	Amount
		P-4			
15	(b) Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification	10.00	Sq. M	299.00	2990.00
16	Extra rate for using water proofing and plasticising admixture @ 0.2% by weight of cement (or at manufacturer's specified rate) for concrete of various grades.	10.00	Kg	139.00	1390.00
17	Removing corroded worn out portion of reinforcement (when the area of bar is damaged by more than 25%) by cutting and replacing the same by a new round bar of requisite diameter by binding with required lap / welding with old bar, including cost of reinforcement, complete in all respect including removing unserviceable materials from site as per direction of the Engineer - in - charge. Note : Payment on weight (Kg.) of new reinforcement.	50.00	Kg	102.00	5100.00
18	Repairing crack in wall by cement grouting (1: 2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1 : 2) and finishing off to match with adjacent surface.(cement-69 Kg/100 m)	200.00	Mtr.	15.13	3026.00
19	(A) Stitching crack in brick wall by carefully cutting out face brick 125 mm. deep into the wall, cleaning the gap and filling up the same with precast cement concrete block carefully set in cement mortar (1:3) including mending good damages and finishing the surface to match with adjacent areas complete as per direction. (i) With plain cement concrete blocks(1:1½:3) with stone chips.				
	(a) Block size 250 x 125 x 75 mm. thick	20	Block	91.00	1820.00
	(b) Block size 250 x 125 x 150 mm. thick	20	Block	107.00	2140.00

Sl. No.	Description	Quantity	Unit	Rate	Amount
		P-5			
	(ii) With reinforced cement concrete blocks (1:1½:3) with stone chips and nominal reinforcement.				
	(a) Block size 250 x 125 x 75 mm. thick	20	Block	116.00	2320.00
	(b) Block size 250 x 125 x 150 mm. thick	20	Block	140.00	2800.00
20	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Second floor).[Excluding cost of chipping over concrete surface]				
	(i) With 1:6 cement mortar				
	First floor				
	(a) 25 mm thick plaster	5.00	Sq. M	216.00	1080.00
	(b) 20 mm thick plaster	100.00	Sq. M	185.00	18500.00
	(c) 15 mm thick plaster	50.00	Sq. M	160.00	8000.00
21	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor)				
	(a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge				
	In first floor	10.00	Sq. M	378.00	3780.00

Sl. No.	Description	Quantity	Unit	Rate	Amount
		P-6			
22	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor.	10.00	Sq. M	783.00	7830.00
23	Extra for using approved H.B netting in every third layer in 29 & 30 above in any floor	10.00	Sq. M	46.00	460.00
24	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/ Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge.(White cement, synthetic adhesive and grout material to be supplied by the contra conc (II) With Polymerised Adhesive [6 mm thick] & epoxy grouting materials for filling joints including spacer-2 mm [Applied directly over finished artificial stone floor/ mosaic etc.] (A) Deep Colour & White	80.00	Sq. M	2079.00	166320.00
25	Repairs to roof cracks with cement and sand mortar (1:4) including cutting grooves and cleaning cracks and grouting the cracks with neat cement before repairs. (Cement 0.63 Kg/Mtr.)	100.00	Mtr.	7.07	707.00

SI. No.	Description	Quantity	Unit	Rate	Amount
		P-7			
26	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. White	120.00	Sq. M	801.00	96120.00
27	Grinding to marble / mosaic floor including remaining stone, if necessary, after cutting with manual labour / machine, where necessary	100.00	Sq. M	22.00	2200.00
28	Scraping and removing greasy soot from walls or ceiling of kitchen or similar smoke affected rooms and preparing the surface.	200.00	Sq. M	11.00	2200.00
29	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothing of surface.	100.00	Sq. M	76.00	7600.00
30	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured(matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (A) Two Coats	1000.00	Sq. M	48.99	48990.00

Sl.No.	Description of works	Quantity	Unit	Rate	Amount
		P-8			
31	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials. (ii) 110 mm dia.	6.00	metre	57.00	342.00
32	Dismantling H.C.I. pipe with fittings including melting lead caulked joints.	3.00	metre	65.00	195.00
33	Cutting out patent stone / mosaic floor for embedding pipe and mending good all damages including concreting (4:2:1) and bringing the floor to original nature.	6.00	metre	97.00	582.00
34	Dismantling Indian W.C. including taking out base concrete as necessary / Dismantling E.P. or Anglo-Indian W.C. / Dismantling Orissa pattern W.C. including taking out of base concrete, if necessary, complete.	6	Each	45.00	270.00
35	Dismantling flush pipe of water closet.	6	Each	18.00	108.00
36	Supplying, fitting and fixing PVC pipes of approved make of (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). 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,				

Sl.No.	Description of works	Quantity	Unit	Rate	Amount
	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)	P-9			
	(a) 15 mm dia.	6.00	Mtr	106.00	636.00
	(a) 20 mm dia.	6.00	Mtr	136.00	816.00
	(a) 25 mm dia.	6.00	Mtr	186.00	1116.00
	(a) 100 mm dia.	6.00	Mtr	1200.00	7200.00
37	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (forwater line only)				
	(viii) 20 mm	2	each	738.00	1476.00
38	Supplying, fitting and fixing bib cock or stop cock.				
	(a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).				
	(i) 15 mm	6	each	689.00	4134.00
39	Supplying, fitting and fixing 10 litre porcelain low-down cistern of approved make with either side or bottom inlet, side overflow, brackets complete with all internal P.V.C. fittings.				
	White	6	each	2567.00	15402.00
40	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts,nuts etc.				
	(a) With 'P' trap	6	each	1776.00	10656.00
41	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete.				
	(iii) Bestolite (solid type) black	6	each	632.00	3792.00

Sl.No.	Description of works	Quantity	Unit	Rate	Amount
		P-10			
42	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete. (i) 590 mm X 390 mm X 380 mm	1	each	2990.00	2990.00
43	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous chinaware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately) (i) 450 mm X 350 mm	1	each	1103.00	1103.00
44	Supplying, fitting and fixing Half round channel with or without outlet as required set in cement concrete(6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately) (b) White vitreous chinaware (ii) 600 mm X 150 mm	10.00	metre	595.00	5950.00
	Total				489743.75
			Say		4,89,744=00

[Rupees Four Lakh Eighty Nine Thousand Seven Hundred Forty Four only]

I/We agree to carry out the work @ _____ % [_____ percent]

Below / At par / Above the rates given in the schedule of quantities and rates mentioned above.

Signature of the contractor with seal, address and telephone no.

Signature of the Director
JBNSTS