

**CONSTRUCTION OF NEW HAJ TOWER COMPLEX  
WITH (B+G+10) TOWER BUILDING INCLUDING  
ALL CIVIL WORKS, SANITARY & PLUMBING WORKS,  
INTERNAL AND EXTERNAL ELECTRIFICATION WORKS,  
ELEVATORS AND OTHER ANCILLARY WORKS  
AT NEW TOWN, RAJARHAT, WEST BENGAL**

**TENDER DOCUMENTS**

**(N.I.P. NO. HRBC/PL. & DN./20 of 2012-2013 dt: 08.03.2013)**

**ADDENDUM NO.2  
TO TENDER DOCUMENTS  
DATED 23.04.2013**

**HOOGLY RIVER BRIDGE COMMISSIONERS  
(A Statutory Organisation under Government of West Bengal)  
TRANSPORT DEPARTMENT  
MUNSHI PREMCHAND SARANI  
( ST. GEORGE'S GATE ROAD )  
KOLKATA – 700 021**

**APRIL 2013**

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**ADDENDUM NO.2  
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**CONTENTS**

Addendum No.2 to Tender Documents consists of the following documents:

1. List of corrigenda
2. Volume-IV: Bill of Quantities (Addendum No.2 to Tender Documents)
  - Page Nos. 12 & 13 – Summary Sheet of Bill of Quantities
  - Page Nos. 18, 19, 20, 23, 24, 25, 26, 27 and 49 – Part A (a)
  - Page Nos. 75 and 80 – Part B (d)

## Addendum No.2 to Tender Documents

### List of Corrigenda

In pursuance with Clause 9 of Section 2 of Volume I (i.e. Instruction to bidders), the following modifications are made to the Tender Document:

Sl. No.	Location in Tender documents	Modifications
<b>Volume I (Section - 1 to 4)</b>		
1.	Clause no. 52.2.1 Price Adjustment for Steel Component, Page -52, Vol. I, Section - 4, General Conditions of Contract	At the end of definition of "R <sub>1</sub> " the existing words as mentioned in the Tender Documents viz., "3 <sup>rd</sup> Corrigendum, dt. 01.09.12" are deleted and substituted by "4 <sup>th</sup> Corrigendum, dt. 10.12.12".
2.	Clause no. 52.2.2 Price Adjustment for Cement Component, Page -52, Vol. I, Section - 4, General Conditions of Contract	At the end of definition of "R <sub>1</sub> " the existing words as mentioned in the Tender Documents viz., "3 <sup>rd</sup> Corrigendum, dt. 01.09.12" are deleted and substituted by "4 <sup>th</sup> Corrigendum, dt. 10.12.12".
<b>Volume II, Technical Specification</b>		
3.	Clause no. 8.2 2 <sup>nd</sup> Paragraph under heading "Materials" Page -54	The last sentence in the existing paragraph as mentioned in the Tender Documents viz., "The mortar shall be in the proportion 1:4 (Cement : Sand )" is deleted and substituted by "The mortar shall be in the proportion 1:3 (Cement : Sand )"
4.	Clause no. 8.2 4 <sup>th</sup> Paragraph under heading "Workmanship" Page -54	The existing words in the second sentence as mentioned in the Tender Documents viz., "Fix 12 mm size stone chips (5 nos. one in each corner and one in the middle of each tile with Adhesive viz., Araldite or equivalent for keying action) or ...." are deleted and substituted by "Fix 10 mm size stone chips (4 nos. one in each corner of each tile with Adhesive viz., Araldite or equivalent for keying action) or ...."
5.	Clause no. 8.3 "Ceramic Mosaic Tiles" Page -55	The first sentence in the first paragraph as mentioned in the Tender Documents viz., "Ceramic mosaic tiles of size 25 mm x 25 mm unglazed of reputed manufacturer as approved by ENGINEER-IN-CHARGE." are deleted and substituted by "Ceramic mosaic (Shon or equivalent) tiles of size 25 mm x 25 mm x 4mm unglazed of reputed manufacturer as approved by ENGINEER-IN-CHARGE."
6.	Clause no. 8.3A "Glass Mosaic Tiles" (New Clause No. 8.3A is added at the end of Cl. 8.3)	New Clause is to be read as follows: <b>"Clause no. 8.3A Glass Mosaic Tiles</b> Glass mosaic tiles of size 20 mm x 20 mm 4mm glazed of reputed manufacturer as approved by ENGINEER-IN-CHARGE. Manufacturing company available in sheets of 300 mm x300 mm shall be used for external building cladding. At first, apply a coat of cement sand plaster on the external surface of 6 mm thick in a proportion of 1:3 (1 cement: 3 coarse sand) with proper leveling and alignment and check it to plumb. Then apply a coating of 4 mm thick pure cement slurry over the wet plastered surface and let the coating dry for 15-30 minutes and then use a wire brush to scratch the surface in zigzag pattern. On the un appeared side of shon mosaic tile sheet

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Sl. No.	Location in Tender documents	Modifications
		apply a thin layer of white cement in paste form and fix the sheet on the plastered wall in such a way that the papered side of the mosaic sheet faces the applicator. Let the tile fix for about 1 to 1 1/2 hours. Then wet the paper with water with a soft painting brush and peel off the paper starting from the top corner and moving down words. Clean the tile surface and apply cement paste putties with colour pigment, as required, to fill the cavities, if any and then wash the shon surface with dilute hydrochloric acid and water combined solution.”
7.	Clause no. 8.4.1 “Vitrified Tiles in Flooring” Page -56	The existing paragraph as mentioned in the Tender Documents is deleted and substituted by “The Vitrified tiles wherever shown on drgs / schedule of finishes shall be polished / satin matt finished of sizes 600 x 600 x 10mm thick, jointed in neat white cement @ 0.2 kg/sqm and pointed in white cement with pigment to Match. The colour / shade of the same shall be as approved by Engineer-in-charge nearly matching with colour / shade if specified in drawings. Tiles shall be of first quality. The tiles shall be laid on 20mm thick cement mortar (1:4) with cement slurry @ 1.75 kg/sqm. Tiles shall be laid as per pattern shown on drawing or as directed by Engineer-in-charge.”
8.	Clause no. 8.4.2 “Vitrified Tiles in Skirting” Page -56	The existing paragraph as mentioned in the Tender Documents is deleted and substituted by “The Vitrified tiles wherever shown on drgs / schedule of finishes shall be polished / satin matt finished of sizes 600 x 600 x 10mm thick, jointed in neat white cement @ 0.2 kg/sqm and pointed in white cement with pigment to Match. The colour / shade of the same shall be as approved by Engineer-in-charge nearly matching with colour / shade if specified in drawings. Tiles shall be of first quality. The tiles shall be laid on 20mm thick cement mortar (1:4) with cement slurry @ 1.75 kg/sqm. Tiles shall be laid as per pattern shown on drawing or as directed by Engineer-in-charge.”
9.	Clause no. 8.6.3 “Laying/Finishing” Second Paragraph Page -57	The existing paragraph as mentioned in the Tender Documents is deleted and substituted by “The average thickness of the bedding mortar under the slab shall be to suite the overall thickness of flooring specified and the thickness at any place under the slab shall not be less than 20mm.”
10.	Clause no. 8.6.3 “Laying/Finishing” 3 <sup>rd</sup> line of the top Paragraph on Page -58	The existing words as mentioned in the Tender Documents viz., “...shall be spread over the same at the rate of 4.4 kg of cement per sq.m.” is deleted and substituted by “...shall be spread over the same at the rate of 4.4 kg of white cement per sq.m.”

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Sl. No.	Location in Tender documents	Modifications
11.	Clause no. 8.11 "Interlocking Pre-cast tiles flooring Page -61	The existing paragraph as mentioned in the Tender Documents is deleted and substituted by "60mm thick factory made cement concrete interlocking paver block which conforming to IS 1237-1980 made by block making machine over 150mm thick coarse sand. The interlocking paver block surfaces to be compacted with wooden mallet. The approve size and design/ shape laid in required colour and pattern as directed by Engineer-in-charge. The colour of inter locking paver block to be approved by Engineer-in-charge".
<b>Book 2 : Volume IV - Bill of Quantities</b>		
12.	Summary Sheet of Bill of Quantities Page No. 12 & 13	The existing page nos. 12 &13 as given in the Tender Documents are to be deleted and substituted by new page nos. 12 & 13 marked as Addendum No.2 to Tender Documents.
13.	Bill of Quantities, Part A (a) Page Nos. 18, 19, 20, 23, 24, 25, 26, 27 and 49 (total 9 pages)	The existing page nos. 18, 19, 20, 23, 24, 25, 26, 27 and 49 as given in the Tender Documents are to be deleted and substituted by new page nos. 18, 19, 20, 23, 24, 25, 26, 27 and 49 (total 9 pages) marked as Addendum No.2 to Tender Documents.
14.	Bill of Quantities, Part B (d) Page Nos. 75 and 80	The existing page nos. 75 and 80 as given in the Tender Documents are to be deleted and substituted by new page nos. 75 and 80 marked as Addendum No.2 to Tender Documents.
<b>GENERAL INFORMATION</b>		
15.	--	The average sub soil water level, as found from the soil investigation report, is at 5.675 mtr. below the existing ground level.

**ADDENDUM NO.2 TO TENDER DOCUMENTS**

**Summary Sheet of Bill of Quantities**

<b>PART A : (Priced Bill of Quantities)</b>	
a. Civil Works	Rs. 57,85,17,790.00
b. Water Supply, Sanitary & Drainage Works	Rs. 1,12,20,960.00
c. Electrical Works.	Rs. 90,47,749.00
<b>SUB TOTAL – PART A [a + b+ c]</b>	<b>Rs. 59,87,86,499.00</b>
<p>We, the undersigned, offer to carry out the works AT PAR / .....% above (.....percent above) / .....% below (.....percent below) the total Priced Bill of Quantities (Part A).</p>	
I. Value of PART A after application of contractual percentage quoted above	Rs. ....

<b>PART B : (Non - Priced Bill of Quantities)</b>	
d. Civil Works	Rs. ....
e. Water Supply, Sanitary & Drainage Works	Rs. ....
f. Electrical Works.	Rs. ....
g. HVAC Works	Rs. ....
h. Fire Protection System.	Rs. ....
II. Value of PART B as per rates quoted i.e., <b>SUB-TOTAL PART B [d+e+f+g+h]</b>	<b>Rs. ....</b>

III. Aggregate value of PART A after application of contractual percentage and value of PART B as per rates quoted (I + II)	Rs. ....
<p><b>Discount on Aggregate value of PART A and PART B (i.e., III); if offered:</b> .....% above (.....percent above) / .....% below (.....percent below).</p>	
<b>Final Contract Price :</b> Aggregate value of PART A and PART B (i.e., III) : (with or without discount as applicable)	<b>Rs. ....</b>

Contd...



Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
20	17.7	Anti termite treatment to the top surface of the consolidated earth within plinth walls with chemical emulsion by admixing chloropyrofos emulsifiable concentrates ( 1% concentration) with water by weight at the rate of 5 Litres per sq. m. of the surface before sand bed or sub-grade is laid. Holes upto 50 mm. to 75 mm. deep at 150 mm. centre to centre both ways shall be made with 12 mm, diameter mild steel rod on the surface to facilitate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in para 6.4 of code IS-6313 (part -II) 1981. ( Mode of measurement will be per Sq.m of plan area of plinth treated.)	Sqm	3323	97.44	Rupees Ninety Seven and Paise Fourty Four Only	323793.12
21	17.7	Treatment to the back filling of R.C.C. foundation with chemical emulsion by admixing chloropyrofos emulsifiable concentrate (1% concentration) with water by weight at the rate of 7.5 lt. per sq.m. of the vertical surface of the substructure of each side of the foundation. The work shall be carried out as per specification as described in para 6.3.1 of code IS-6313 (part-II) 1981 (Mode of measurement will be per sq.m. of vertical area of foundation treated).	Sqm	587	126.88	Rupees One Hundred & Twenty Six and Paise Eighty Eight Only	74478.56
22	4	Ordinary Cement concrete (mix 1:2:4)/M15 with graded stone chips. (20 mm normal size) excluding shuttering and reinforcement, if any in ground floor and foundation as per relevent IS codes.					
		Pakur Varity	Cum	780	5255.43	Rupees Five Thousand Two Hundred & Fifty Five and Paise Fourty Three Only	4099235.40
23	4	Extra rate for using wate proofing and plasticising admixture @ 0.2% by weight of cement (or at manufacturer's specified rate) for concrete of various grades.	Kg	702	132.65	Rupees One Hundred & Thirty Two and Paise Sixty Five Only	93120.30
24		Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	Sqm	1560	340.00	Rupees Three Hundred & Fourty Only	530400.00
25	4	Cement concrete with graded jhama khoa (30mm size) excluding shuttering In ground floor and foundation 1:4:8 proportion	Cum	1495	4604.02	Rupees Four Thousand Six Hundred & Four and Paise Two Only	6883009.90
26	4	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.					
		1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	Cum	34	8062.66	Rupees Eight Thousand & Sixty Two and Paise Sixty Six Only	274130.30
27		Cement concrete with graded stone ballast (40 mm sizeexcluding shuttering)					
		[Pakur Variety]					
		1:3:6 proportion	Cum	156	4379.45	Rupees Four Thousand Three Hundred & Seventy Nine and Paise Fourty Five Only	683194.20



Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
28	4	Batch Mixed concrete of <b>M40</b> Grade with well Graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu. M of wet concrete produced in computerised batching plant under controlled condition using approved super plasticizer designing concrete mix following IS 10262 and IS 456 transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required level of concreting and than placing the mix in its final location of form work compacting and curing the same complete as per specification and direction of the engineer in charge including hire charges of computerised batching plant, transit mixer with all accessories vibrators etc. inclusive of all other incidental charges in this connection complete but excluding cost of hire charges of platform and its supporting staging which would be paid through separate item. Consumption of cement will not be less than 360 Kg of cement per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula.					
		[with Batching Plant & transit mixer], In ground floor and foundation [Pakur Variety]					
		For RCC Columns	Cum	1792	7089.01	Rupees Seven Thousand & Eighty Nine and Paise One Only	12703505.92
29	4	Extra over the rate of Ground Floor for basement and each additional floor above ground floor.					
a)		For basement upto Plinth Level	Cum	145	61.82	Rupees Sixty One and Paise Eighty Two Only	8964.48
b)		For 1st floor	Cum	269	61.82	Rupees Sixty One and Paise Eighty Two Only	16630.66
c)		For 2nd floor	Cum	174	123.65	Rupees One Hundred & Twenty Three and Paise Sixty Five Only	21514.75
d)		For 3rd floor	Cum	146	185.47	Rupees One Hundred & Eighty Five and Paise Fourty Seven Only	27078.91
e)		For 4th floor	Cum	125	247.30	Rupees Two Hundred & Fourty Seven and Paise Thirty Only	30912.00
f)		For 5th floor	Cum	97	322.31	Rupees Three Hundred & Twenty Two and Paise Thirty One Only	31264.07
g)		For 6th floor	Cum	97	397.32	Rupees Three Hundred & Ninety Seven and Paise Thirty Two Only	38540.04
h)		For 7th floor	Cum	97	472.33	Rupees Four Hundred & Seventy Two and Paise Thirty Three Only	45816.01
i)		For 8th floor	Cum	97	547.34	Rupees Five Hundred & Fourty Seven and Paise Thirty Four Only	53091.98
j)		For 9th floor	Cum	97	622.35	Rupees Six Hundred & Twenty Two and Paise Thirty Five Only	60367.95
k)		For 10th floor	Cum	97	697.37	Rupees Six Hundred & Ninety Seven and Paise Thirty Seven Only	67644.89
l)		Above Roof	Cum	49	772.38	Rupees Seven Hundred & Seventy Two and Paise Thirty Eight Only	37846.62

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
30	4	Batch Mixed concrete of M 30 Grade with well Graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu. M of Wet concrete produced in computerized batching plant under controlled condition using approved super plasticizer designing concrete mix following I.S 10262 and I.S. 456 transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required level of concreting and then placing the mix in its final location of form work compacting and curing the same complete as per specification and direction of the Engineer-in charge including hire charges of computerized batching plant, transit mixer with all accessories vibrators etc. inclusive of all other incidental charges in this connection complete but excluding cost of hire charge of platform and its supporting staging which would be paid through separate item. Consumption of cement will not be less than 320 Kg of cement per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula. With approved concrete pump					
a)		Sub-structure, upto Plinth	Cum	1688	6777.29	Rupees Six Thousand Seven Hundred & Seventy Seven and Paise Twenty Nine Only	11440065.52
b)		Super structure	Cum	8491	6777.29	Rupees Six Thousand Seven Hundred & Seventy Seven and Paise Twenty Nine Only	57545969.39
31	4	Extra over the rate of Ground Floor for basement and each additional floor above ground floor.					
a)		For basement upto Plinth Level	Cum	1141	82.82	Rupees Eighty Two and Paise Eighty Two Only	94497.62
b)		For 1st floor	Cum	1135	82.82	Rupees Eighty Two and Paise Eighty Two Only	94000.70
c)		For 2nd floor	Cum	937	165.65	Rupees One Hundred & Sixty Five and Paise Sixty Five Only	155214.05
d)		For 3rd floor,1141	Cum	928	248.47	Rupees Two Hundred & Fourty Eight and Paise Fourty Seven Only	230580.16
e)		For 4th floor	Cum	614	331.30	Rupees Three Hundred & Thirty One and Paise Thirty Only	203418.20
f)		For 5th floor	Cum	573	427.31	Rupees Four Hundred & Twenty Seven and Paise Thirty One Only	244848.63
g)		For 6th floor	Cum	573	523.32	Rupees Five Hundred & Twenty Three and Paise Thirty Two Only	299862.36
h)		For 7th floor	Cum	573	619.33	Rupees Six Hundred & Nineteen and Paise Thirty Three Only	354876.09
i)		For 8th floor	Cum	573	715.34	Rupees Seven Hundred & Fifteen and Paise Thirty Four Only	409889.82
j)		For 9th floor	Cum	573	811.35	Rupees Eight Hundred & Eleven and Paise Thirty Five Only	464903.55
k)		For 10th floor	Cum	573	907.37	Rupees Nine Hundred & Seven and Paise Thirty Seven Only	519923.01
l)		Above Roof	Cum	339	1003.38	Rupees One Thousand & Three and Paise Thirty Eight Only	340145.82

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
ix)		For 9th floor	Qntl	1294	313.44	Rupees Three Hundred & Thirteen and Paise Fourty Four Only	405591.36
x)		For 10th floor	Qntl	1294	350.65	Rupees Three Hundred & Fifty and Paise Sixty Five Only	453743.69
xi)		Above Roof	Qntl	771	387.86	Rupees Three Hundred & Eighty Seven and Paise Eighty Six Only	299043.14
37	5	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 skriking out after completion of works (upto roof of ground floor) (When the heoght of a particular floor is more than 4 m the equivalant floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be alowed under 12 (e) for every 4 m or part thereof)					
		Steel shuttering or 9-12 mm th. Approved quality ply board shuttering in any concrete work.					
a)		Upto roof of ground floor	Sqm	74708	335.69	Rupees Three Hundred & Thirty Five and Paise Sixty Nine Only	25078728.52
38		Extra for works beyond the roof of ground floor per additional floor. Upto 4th (per floor) and in basement.					
i)		Basement & in 1st floor	Sqm	16071	12.04	Rupees Twelve and Paise Four Only	193526.98
ii)		For 2nd floor,	Sqm	7404	24.08	Rupees Twenty Four and Paise Eight Only	178317.94
iii)		For 3rd floor,	Sqm	6914	36.13	Rupees Thirty Six and Paise Thirteen Only	249775.16
iv)		For 4th floor	Sqm	5694	48.17	Rupees Fourty Eight and Paise Seventeen Only	274268.59
v)		For 5th floor	Sqm	4439	62.90	Rupees Sixty Two and Paise Ninety Only	279209.55
vi)		For 6th floor	Sqm	4439	77.63	Rupees Seventy Seven and Paise Sixty Three Only	344601.35
vii)		For 7th floor	Sqm	4439	92.36	Rupees Ninety Two and Paise Thirty Six Only	409993.14
viii)		For 8th floor	Sqm	4439	107.09	Rupees One Hundred & Seven and Paise Nine Only	475384.94
xviii)		For 9th floor	Sqm	4439	121.82	Rupees One Hundred & Twenty One and Paise Eighty Two Only	540758.98
ix)		For 10th floor	Sqm	4439	136.55	Rupees One Hundred & Thirty Six and Paise Fifty Five Only	606150.78
x)		Above Roof	Sqm	2606	151.28	Rupees One Hundred & Fifty One and Paise Twenty Eight Only	394241.93
39	5	Hire and labour charges for <b>shuttering</b> 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 fittings, fixing and striking out after completion of works (upto roof of ground floor)					

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
		a) 25 mm to 30mm thick <b>wooden shuttering</b> as per decision & direction of Engineer-in-Charge.	Sqm	220	286.99	Rupees Two Hundred & Eighty Six and Paise Ninety Nine Only	63137.45
40	5	Hire and labour charges for <b>shuttering</b> with hard wood for precast R. C. Slab curved. or stright and striking out the same including fittings, fixing the <b>precast slab</b> in position with necessary carriage and haulage, hosting etc., complete in all respect.(only the area in cotract with <b>concrete to be measured</b> )	Sqm	945	77.39	Rupees Seventy Seven and Paise Thirty Nine Only	73136.20
41	5	Extra for Staging beyond 4 m in any floor [mode of measurement : area in plan x mean height of staging up soffit of shuttering above initial 4 m.]	Cum	3015	58.20	Rupees Fifty Eight and Paise Twenty Only	175473.00
42	7	Brick work with 1st class bricks in cement mortar (1:6)					
a)		In foundation and Plinth	Cum	669	5203.69	Rupees Five Thousand Two Hundred & Three and Paise Sixty Nine Only	3481268.61
b)		In superstructure, ground floor	Cum	1250	5359.09	Rupees Five Thousand Three Hundred & Fifty Nine and Paise Nine Only	6698862.50
43	7	Extra for basement and each additional floor over the rate for ground floor.					
i)		For 1st floor	Cum	231	70.34	Rupees Seventy and Paise Thirty Four Only	16248.42
ii)		For 2nd floor	Cum	239	140.68	Rupees One Hundred & Fourty and Paise Sixty Eight Only	33622.28
iii)		For 3rd floor	Cum	63	211.02	Rupees Two Hundred & Eleven and Paise Two Only	13294.17
iv)		For 4th floor	Cum	63	281.36	Rupees Two Hundred & Eighty One and Paise Thirty Six Only	17725.55
v)		For 5th floor	Cum	63	365.70	Rupees Three Hundred & Sixty Five and Paise Seventy Only	23039.38
vi)		For 6th floor	Cum	63	450.05	Rupees Four Hundred & Fifty and Paise Five Only	28353.21
vii)		For 7th floor	Cum	63	534.40	Rupees Five Hundred & Thirty Four and Paise Fourty Only	33667.04
viii)		For 8th floor	Cum	63	618.74	Rupees Six Hundred & Eighteen and Paise Seventy Four Only	38980.87
ix)		For 9th floor	Cum	63	703.08	Rupees Seven Hundred & Three and Paise Eight Only	44294.04
x)		For 10th floor	Cum	63	787.43	Rupees Seven Hundred & Eighty Seven and Paise Fourty Three Only	49607.87
xi)		Above Roof	Cum	48	871.77	Rupees Eight Hundred & Seventy One and Paise Seventy Seven Only	41845.10
44	7.3	Brick work with 1st class bricks in cement mortar (1:4) in foundation and Plinth.	Cum	310	5523.42	Rupees Five Thousand Five Hundred & Twenty Three and Paise Fourty Two Only	1712260.20
45	7.4	125 mm thick brick work with 1st class bricks in cement mortar (1:4)					
		In Ground Floor and beyond 4th floor	Sqm	10070	705.12	Rupees Seven Hundred & Five and Paise Twelve Only	7100558.40
46	7.4	Extra for each additional floor over the rate of ground floor.					
i)		For 1st floor	Sqm	487	7.50	Rupees Seven and Paise Fifty Only	3651.04
ii)		For 2nd floor	Sqm	1080	14.99	Rupees Fourteen and Paise Ninety Nine Only	16189.20

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
iii)		For 3rd floor	Sqm	985	22.49	Rupees Twenty Two and Paise Fourty Nine Only	22153.64
iv)		For 4th floor	Sqm	950	29.99	Rupees Twenty Nine and Paise Ninety Nine Only	28488.60
v)		For 5th floor	Sqm	930	38.42	Rupees Thirty Eight and Paise Fourty Two Only	35730.60
vi)		For 6th floor	Sqm	930	46.85	Rupees Fourty Six and Paise Eighty Five Only	43571.43
vii)		For 7th floor	Sqm	930	55.28	Rupees Fifty Five and Paise Twenty Eight Only	51410.40
viii)		For 8th floor	Sqm	930	63.71	Rupees Sixty Three and Paise Seventy One Only	59250.30
ix)		For 9th floor	Sqm	930	72.15	Rupees Seventy Two and Paise Fifteen Only	67099.50
x)		For 10th floor	Sqm	930	80.58	Rupees Eighty and Paise Fifty Eight Only	74939.40
xi)		For Above Roof	Sqm	88	89.01	Rupees Eighty Nine and Paise One Only	7832.88
47	7	Extra for using approved H.B. netting in every third layer in any floor.	Sqm	10015	39.61	Rupees Thirty Nine and Paise Sixty One Only	396654.09
48		75mm. Thick brick work with 1st class brick set in cement, sand mortar (1:3) in ground floor including H.B. netting in every alternate layer	Sqm	730	526.65	Rupees Five Hundred & Twenty Six and Paise Sixty Five Only	384457.42
49	7	Extra Labour for brick for string course and set square brick work, brackets and similar other projection brick works to be paid in respective item.	Cum	25	165.90	Rupees One Hundred & Sixty Five and Paise Ninety Only	4147.50
50	8.1	18 mm to 22 mm thick Kota stone slab set in 20 mm thick (avg) cement mortar (1:4) in floor, stair & lobby including pointing in cement slurry with admixture of pigment matching the stone shade, including griding & polishing as per direction of Engineer-in-charge to match with the existing work. [ Slurry for bedding @ 4.4 kg/sqm and pointing @ 2.0 kg/sqm]	Sqm	1024	963.20	Rupees Nine Hundred & Sixty Three and Paise Twenty Only	986316.80
51	8.8	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
		40 mm thick with 20 mm nominal size stone aggregate	Sqm	789	378.18	Rupees Three Hundred & Seventy Eight and Paise Eighteen Only	298385.60
53	4.17	40mm thick damp proof course with cement concrete (1:1.5:3) (with graded stone chips 20mm nominal size) with water proofing compound of approved brand @ 0.2% weight of cement including cost of materials over two coats of non toxic acrylic polymer modified cementitious waterproofing slurry coat complete for underground water retaining structures.	Sqm	26	567.87	Rupees Five Hundred & Sixty Seven and Paise Eighty Seven Only	14764.62

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
54	8.8	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/sqm all complete including all materials and labour.					
		35 mm thick artificial stone in floor, dado etc. with cement concrete (1:2:4)	Sqm	1239	293.42	Rupees Two Hundred & Ninety Three and Paise Fourty Two Only	363547.38
55	8	Supplying Glass dividing strip fitted and fixed with cement mortar (1:3) in mosaic or patent stone floor, dado etc. complete as per direction of the Engineer-in-charge. (Glass-3mm thick 25mm wide strip	Rm	502	13.94	Rupees Thirteen and Paise Ninety Four Only	6999.29
56	8.1	Extra cost of labour for prefinished and premoulded Nosing to treads of steps, railing, window sill etc. of kota stone.	Rm	50	139.21	Rupees One Hundred & Thirty Nine and Paise Twenty One Only	6960.50
57	8.6.4	Extra for pre finished nosing to treads of steps of marble stone.	Mtr.	1784	206.19	Rupees Two Hundred & Six and Paise Nineteen Only	367842.96
58	8.6.4	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre .	Sqm.	845	239.81	Rupees Two Hundred & Thirty Nine and Paise Eighty One Only	202639.45
59	8.6.3	Supplying, fitting and fixing Marble Slab/tile of 15 to 18 mm thickness in floor, lobby, stair, landing & treads etc. over 20 mm (avg.) thick base of Cement mortar (1:2) laid with white cement slurry @ 4.4 kg/Sq.M before placing marble & jointed with white cement slurry @ 2.0 kg/Sq.M with necessary pigments including grinding and Granite polishing as per direction of Engineering -in -Charge in Ground Floor. [White cement and Pigment to be supplied by the Agency] Area of each Slab/tile exceeding 0.60 Sq.M but not exceeding 1.00 Sq.m. Chawk dungri.	Sqm	11519	2885.11	Rupees Two Thousand Eight Hundred & Eighty Five and Paise Eleven Only	33233582.09
60	8.6.3	Supplying fitting and fixing 15 to 18 mm thick Marble slab /Tile inriser of steps or skirting (upto 300 mmht) over 15mm avg. thick base of cement mortar (1:2) laid with white cement slurry @ 4.4 kg/Sq. m at back side of marble and jointed with white cement slurry @ 2.2 kg/sqm with necessary pigments including grinding and Granite polishing. [ White cement and pigment to be supplied by the agency]					
		With Chawk Doongri. Area of each tile exceeding 0.3 sqm. But not exceeding 0.6 sqm.	Sqm	3773	1834.60	Rupees One Thousand Eight Hundred & Thirty Four and Paise Sixty Only	6921945.80
61	8.6.3	Mirror polishing on marble work/stone work where ever required to give high gloss finish complete.	Sqm.	2028	184.63	Rupees One Hundred & Eighty Four and Paise Sixty Three Only	374429.64

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
62	8.8	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 1mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	4914	561.64	Rupees Five Hundred & Sixty One and Paise Sixty Four Only	2759898.96
63	8.4.1	Supplying & laying true to line & level vitrified tiles of approved brand (size not less than 600mm x 600mm x 10 mm thick) in floor, skirting etc. set in 20mm sand cement mortar (1:4) and 2mm thick cement slurry back side of tiles using cement @ 2.91 kg/sqm or using polymerised adhesive (6mm 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 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 contractor) With application slurry @ 1.75 kg/sqm, 20mm sand cement mortar (1:4) & 2mm thick cement slurry at back side of tiles, 0.2 kg/sqm white cement for joint filling with pigment. Deep colour & White	Sqm	5674	1450.03	Rupees One Thousand Four Hundred & Fifty and Paise Three Only	8227470.22
64	8.2	Supplying, fitting & fixing 1st quality Ceramic tiles in walls / dado to match with the existing work & 4nos. Key stones(10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with the colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. Walls/dado-with sand cement mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 kg/sqm & joint filling using white cement slurry @ 0.20 kg/sqm. Area of each tile above 0.09sq.m.					
		Coloured decorative	Sqm	8142	962.52	Rupees Nine Hundred & Sixty Two and Paise Fifty Two Only	7836837.84
65	8.1	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3	Sqm	667	1326.43	Rupees One Thousand Three Hundred & Twenty Six and Paise Fourty Three Only	884728.81
66	8.1	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre .	Sqm.	490	12.64	Rupees Twelve and Paise Sixty Four Only	6193.60

Sl. No.	Technical Specification Clause No.	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					in Figure	in Words	
169		Providing and laying Premixed Seal Coat (Type - B) with approved quality sand/grit @ 0.6 cum/100 sqm and hot bitumin binder on thoroughly cleaned black top surface coated with tack coat, including heating and mixing cleaned sand/grit (100% passing through 2.36 mm sieve and retained on 180 micron sieve) uniformly with hot binder (@ 113.5 kg/Cum of grit or sand in Mobile Hot Mix Plant (Light duty), laying and spreading the mix at and uniform rate using suitable means, brushing the surface, if necessary, to ensure uniformity, followed by rolling with power roller including the cost and carriage of binder and aggregates, cost of heating the binder and aggregates and all other incidental charges, cost of fuel and lubricants, including hire charges of machineries, tools and plants required for construction and quality control complete.	Sqm.	5460	50.77	Rupees Fifty and Paise Seventy Seven Only	277204.20
170		Supplying and stacking at site. 90 mm to 45 mm size stone aggregate	Cum	70	1454.91	Rupees One Thousand Four Hundred & Fifty Four and Paise Ninety One Only	101843.70
171		Labour for stone or Brick-bat filling on the back side of the abutment, wing walls etc. include hand packing and carriage of stone or brick-bats from road side stacks.	Cum	70	56.00	Rupees Fifty Six Only	3920.00
172		Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	55	1089.74	Rupees One Thousand & Eighty Nine and Paise Seventy Four Only	59935.70
173		Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	Cum	55	1051.53	Rupees One Thousand & Fifty One and Paise Fifty Three Only	57834.15
<b>Part A (a) : SUB - TOTAL</b>							<b>578517790.31</b>
<b>Say,</b>							<b>578517790.00</b>



Sl. No.	Technical Specification	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
9	7	Providing and laying of Autoclaved Aerated Concrete (AAC ) block masonry using blocks having dimensions of 625 mm x 250 mm. thickness ranging from 100 mm to 300 mm conforming to I.S. :2185(part-III) .The jointing cement sand mortar in the composition of 1: 6 (Cement: sand) shall be used with suitable plasticizer(optional). The horizontal and vertical joint thickness shall be approximately 10 mm. In case of partition walls (100 mm /125 mm thk.) the joint reinforcement i.e. 1 number of 6-8 mm diameter bars shall be placed at every alternate course to be anchored properly with the main structure. All other structural requirements like stiffening of masonry , joint reinforcement etc. in the AAC masonry work strictly be carried out as per instructions laid down in .I.S 6041 – 1985, I.S -1905 including lifting charge from 1st floor to roof.	Cum	3680			
10	8.7	Providing and fixing 12mm thick Laminated wooden flooring (AC-5) of plank size 200 mm x 1200 mm /approved size of Pergo/ Armstrong/Berry/Euro make, providing 2mm thick foam as per manufacturer's specification, dock ltounge & groove joint and providing and fixing skirting board beading to match the flooring. The item shall also include providing door profiles wherever required. All complete as per detail drawing, as specified and as directed by include supply and fixing of skirting profile and door profile to the flooring and no extra will be paid for this.	Sqm	200			
	10	<b>Water Proofing Treatment for Toilet Floor</b>					
11		Cleaning of RCC to remove dust and loosely adhering particles completely.	Sqm	4226			
12		Supply and application of 1:3 cement – sand mortar, mixed with <b>SikaTop 77</b> – the polymer modified high quality emulsion, as a coving at the corners of floor and the vertical surface in the sunken area, and between floor and walls in the remaining area.	Rm	1902			
13		Supply and application of <b>SikaTop Seal 107</b> – the cementitious, flexible waterproof coating onto the prepared surface in a continuous film on the floor of the sunken area, taking the coating over the vertical surfaces on to the floor and over the coving on to the wall (before tiling) to at least 300mm above the final finished floor level. The coating shall also be continued on to the inner surfaces of the pipe penetration holes. Two coats shall be applied.	Sqm	4266			
14		Providing a 15mm thick plaster on the waterproof coating by mixing an integral waterproofing compound, <b>Plastocrete Plus</b> @ 100gms per bag of cement	Sqm	4266			
15		Providing <b>Sikagard 694F(I)</b> , a moisture insensitive epoxy putty in a continuous, 10mm thick gasket around the pipes to a width of approximately 15mm.	Nos	6090			
	10	<b>Water proofing Treatment at Roof surface.</b>					
16		Labour for cleaning of concrete surface to remove dust, oil, grease including removal of existing loose paint / coating, and cement laitance by cleaning with compressed air, including all materials, labour, tools and tackles complete Repairing surface irregularities, damaged concrete in base slab, if any, with a styrene butadiene polymer, <b>Sika Latex</b> or equivalent modified repair mortar including a coat of bonding agent of the same with cement slurry including all material, labour, tools and tackles complete	Sqm	4373			

Sl. No.	Technical Specification	Description of work	Unit	Total Quantity	Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
31		Providing & fixing Luxalon 84 R plain panel aluminium Sun Louver System as manufactured by Hunter Douglas India Pvt. Ltd. Of approved colour (as per Luxalon colour chart). The system shall consist of panel 84mm wide x 16mm deep x 0.6mm thick in standard length of up to 6mm. The panels shall be coil coated in a continuous paint line, double baked & roll formed from stove enameled corrosion resistant Aluminium Alloy AA 3005 for higher strength & roll forming characteristics. The panels shall be clipped on to a baked and enameled aluminium SL4 stringer 38 mm wide x 98mm deep made from 0.95 mm thick baked and enameled Aluminium alloy AA 5050 (AL. MG) in standard length of 5 m in white color with cutouts to hold the panels in a module of 74 mm c/c the 1st. stringers shall be fixed at 150 mm from both end and there after at a distance of 750 mm to 1000 mm depending on wind load. The stringer shall be fixed to suitable sub structure/wall with nut/bolt and washer, complete as per manufacturer's specification	Sqm	660			
32	9	Providing and applying texture paint including preparing surface, using roller to get approved texturised surface. Job to include making required surface preparation, to receive texture paint finishe etc. all complete as per detail drawing, as specified and as directed by architect or EIC.	Sqm	1165			
33	8.3	Supply and fixing ceramic unglazed SHON or equivalent make mosaic tiles in size of 25x25x4 mm thick (+/-) 1% in white colour matt finish fixed over smooth cement plaster surface with white tile adhesive and joint filling with white cement and acid cleaning the surface including double scaffolding etc. complete in all respects as per the instruction of EIC, and as per manufacturer's specification	Sqm	7456			
34	9.12	Painting with plastic emulsion paint of approved brand and manufacture of required colour to given an even shade : two or more coats on new work	Sqm	740			
35	9	Painting with plastic emulsion paint of approved brand and manufacture of required with white to given an even shade : two or more coats on new work	Sqm	500			
36	8.3A	Providing and laying approved shade glass mosaic tiles of 20mm square, set in cement mortar (1:3) properly finished with joint filler and cement paste over 15mm thick cement mortar (1:4)	Sqm	1755			
37	22	Providing and fixing Klippon or equivalent metal roofing system including stiffening profile & with SMP/XRW approved type permanent colour coating over Zinalume/ Galvalume base steel of thickness 0.5mm exclusive of coating and covered with double sided transparent plastic sheet for protection during handling and fixed in the concealed compatible interlocking clips fixed over the purlins with hexagonal head self drilling fasteners and washers including necessary fittings, accessories as per manufacturers specification complete in all respect. In no way fasteners for holding the sheets should penetrate the top sheeting. Zinc -Aluminium coating of mass of minimum 150 gsm total of both sides as per AS 1397-1993 should be provided & should be finished in the 20 microns approved colour coating on exposed surface over a primer coat of 5 micron and a neutral colour back coat of 5 microns on reverse side over a 5 microns primer coat.					