



JAGADIS BOSE NATIONAL SCIENCE TALENT SEARCH
1300, RAJDANGA MAIN ROAD
KOLKATA – 700107
Tel. : (033) 21128270
N.I.T no. JBNSTS/2-1/2021-22/17 dated 06.12.2021

Tenders are invited from reputed and resourceful contractors / Agencies for construction of a **Security Room** at Jagadis Bose National Science Talent Search, 1300, Rajdange Main Road, Kasba, Kolkata – 700107. The details of the job is as under :

PART - A

1. Name of the job : Construction of a **Security Room** at Jagadis Bose National Science Talent Search, 1300, Rajdange Main Road, Kasba, Kolkata – 700107.

2. Place of work : Office premises of Jagadis Bose National Science Talent Search at 1300, Rajdange Main Road, Kasba, Kolkata – 700107 .

3. Estimated value of the work : Rs. 497869.00 (Rs. Four lakh Ninety Seven thousand Eight hundred Sixty nine) only

4. Period of completion : 30 (Thirty) days from the date of issue of the work order

5. Tender document :

i) **Collection of tender document :** Interested agencies / contractors may download the tender documents alongwith the BOQ from the official website of the institute www.jbnsts.ac.in before the time of submission of the tender as stated in clause 5(ii) hereunder.

ii) **Submission of tender documents :** Filled up and signed tender document (annx 1 only) with all necessary documents, as stated in clause (iv) hereunder, should be submitted in a sealed envelop addressed to “**The Director, Jagadis Bose National Science Talent Search, 1300, Rajdange Main Road, Kasba, Kolkata – 700107**” latest by December 14, 2021(Tuesday) up to 12.00 noon (IST)

iii) **Opening of tender :** Tenders shall be opened on **December 15, 2021 (Wednesday) at 03.00 pm (IST)**. Representatives of bidders may remain present at the time of opening the tenders.

iv) **Validity of tender :** The tender submitted should remain valid for 90 (ninety) days from the day of opening the tender

iv) **Documents to be submitted with tender document :**

- a) Duly filled up and signed BOQ (Annx 1).
- b) Copy of valid GST certificate.
- c) Copy of the Trade License / PAN of the organization (individual PAN is not acceptable).

6. Pre – bid visit : Bidders may have a pre – bid visit from December 09 - 10, 2021 between 02.00 pm to 03.00 pm. with prior appointment with the undersigned.

7. Schedule of Quantity, Rates and Work : Enclosed with this document and marked **Annx – 1**. The quantity and description of work given therein is only indicative in nature. Final payment shall be made on the basis of actual quantity of work. Minor changes / modifications in the design / drawing / items may be done during the work with prior consultation with the agency.

8. Submission of bills : The agency shall submit the final bill after completion of the work from all respect and to full satisfaction of JBNSTS. The agency shall maintain a book of measurement and get it verified and signed by the E-I-C or the authorized representative of JBNSTS . This book of measurement should be presented with the final bill . Payment shall be made on the basis of quantity of work verified and signed by E-I-C or the authorized representative of JBNSTS .

9. Payment : Payment shall be made either by a/c payee cheque or online payment through NEFT. The agency shall be required to supply / share his/her bank details for online payment. Following deductions shall be made from the final payment :

a) Legal deductions, if any, shall be made from the final bill after deduction of security deposit.

b) A security deposit equivalent to 10% of the final bill . The said amount of security deposit shall be refunded after 12 months of submission of final bill. During this period, the agency / contractor shall remain responsible for repair / replacement of any faulty work / item at his / her cost within 24 hours of receiving the information from our end. In case this is not done, JBNSTS reserves the right to fget the job done by any other agency and deduct the amount paid to such agency from the security deposit . The decision of the Director, JBNSTS shall be final in this regard.

The balance of the security deposit, if any, at the end of the period of 12 months shall be refunded to the agency / contractor without any interest .

10. Other terms and conditions : As stated in part – B of this document. It will be assumed that bidders submitting tender have read, understood and agreed to the terms and conditions stated in Part – B before submitting the tender. The successful bidder shall be required to abide by all those terms and conditions during the period of work.

All quotations should be submitted at our office within the time period stated in clause 5(ii). Interested vendors may remain present at the time of opening quotation as per schedule stated in clause 5(iii). JBNSTS reserves the right to cancel any or all the quotations without assigning any reason.

For further details contact:

Asst. Director (Admn.) , JBNSTS

Contact No. – 2442 8270

PART - B

1. GENERAL CONDITIONS OF CONTRACT

- 1.1 **Application :-** Unless otherwise provided for in the Contract Documents, these conditions shall apply to the work of all sections of the specifications attached herewith.
- 1.2 **Contractor to satisfy himself / herself on all points :-** The contractor shall inspect and examine the area of work and surroundings and shall satisfy himself / herself or shall be deemed to have satisfied himself / herself before submitting the Tender Documents as to the form & nature of the site & nature of the work, the means of access to the site, the working space he / she may require, any other local conditions and in general shall obtain all necessary information as to risks, contingencies and any other circumstances which may influence or affect the work. No extra claim whatsoever shall be entertained on account of misunderstanding or otherwise of the prevailing conditions as well as scope of work.
- 1.3 **The Contract & General Obligations of the Contractor / Agency / Firm :-**
- a) The contract shall be governed by acts as applicable only within jurisdiction of the High Court at Kolkata, India.
 - b) The Contractor shall at all times indemnify the JBNSTS against all claims, damages or compensation under the provision of the Workmen's Compensation Act, 1923, or any other law for the time being in force as consequences of any accident or injury of any workmen, or other person whether in the employment of the Contractor or not, and also against all cost, expenses or charges of any suit, action or proceeding arising out of such accident or injury & against all sums or sums which may with the consent of the Contractor be paid to compromise any such claim suit or proceedings.
 - c) Any required workforce to be employed by the Contractor.
 - d) Any labour / worker supplied by the Contractor for the work on a daily work basis either wholly or partly under the direct orders & control of the Contractor shall be still deemed to be person employed by the Contractor/(Agency / Firm).
 - e) The Contractor shall employ no workmen below the age of 18 years on the work of any nature.
 - f) The Contractor shall observe all the safety precautions as stipulated & necessary to ensure safety of his / her staff / workers as well as material. Appropriate Personal Protective Equipment (PPE), and other necessary safety equipment is to be provided to staff / workers while working and the staff / workers are to be properly trained to use such safety equipment & observe the safety norms.

- g) The Contractor shall not directly or indirectly transfer, assign or sublet the contract or any part thereof without the written permission of the JBNSTS. Even if such permission be granted, the contractor shall remain responsible (a) for the act, defaults and neglect for any Sub- Contractor, his / her agents, servants or workmen as fully as if these were the acts, defaults or neglects of the Contractor himself or his / her agents, servants or workmen, and (b) for his / her full and entire responsibility of the contractor and for active superintendence of the works by him despite being sublet, provided always that the provision of labourers on a "piece rate" basis shall not be deemed to be subletting under this / her clause. However, all lapses delays due to sub-contractor will be treated as contractual failure solely on Contractor's (Agency / Firm) part.
- h) Contractor's rates given in the tender must be fully inclusive of all expenditure including any incidental expenditure related to that job. Unless otherwise specified, the contractor shall be deemed to have included in his / her Tender / Offer all his / her costs for supplying and providing all costs for the main work as well as any temporary work required for completion of the main work, materials both for temporary and permanent works, labour including supervision thereof, transporting to and from the site all materials, garbage , excess material etc.. It must also include costs for any platform, scaffolding etc. loading, unloading, fencing, watching, lighting, payment of fees, taxes and duties to be appropriate authorities, Insurance and other things of every kind required of the construction, erection, completion and maintenance of the work including contractor's overhead and profit.
- i) The Contractor shall provide necessary and adequate supervision during the execution of the work.

1.4 Commencement, Execution and completion of Work :-

- a) The Contractor shall mobilize all men and material for the work. No extra payment for that shall be made by JBNSTS.
- b) Contractor to observe JBNSTS working hours. Unless specified otherwise in the Contract or prior permission of the JBNSTS has been taken, the Contractor shall not execute the work beyond the working hours. The agency shall mutually extend all cooperation for smooth functioning of the office without interrupting its normal work.
- c) Contractor to supply all materials necessary to complete the work. Unless stipulated otherwise in the Contract, all materials of approved make / brand required for the work shall be procured and supplied by the Contractor (Agency / Firm) with the approval of the E-I-C or Authority, JBNSTS . The E-I-C or Authority, JBNSTS shall exercise his / her sole discretion to accept and / or reject any such materials or the final product made by such material. They also arrange for ladder, scaffolding, platforms etc. For execution of the job

- d) **Materials / Work not acceptable :-** The E-I-C or Authority, JBNSTS shall have the power to inspect any final product / material /W-I-P at any time and to order at any time – (a) for removal from the site any material which in his / her opinion is not in accordance with the Contract or the instruction of the E-I-C or Authority, JBNSTS (b) for the substitution by the proper and suitable materials, or (c) the removal and proper dismantling and / or re-execution of any work, which in respect of material and workmanship is not in accordance with the Contract or the instructions of the E-I-C or Authority, JBNSTS. The Contractor shall comply with such order at his / her own expense and within the time specified in the order. If the Contractor fails to comply, the E-I-C or Authority, JBNSTS shall be at liberty to dispose any such materials and re-do any work in the manner convenient by engaging any outside agency at the risk and expense of the Contractor and after giving him a written prior notice of 7 days. The Contractor shall extend his / her full assistance as required by the E-I-C or Authority, JBNSTS during inspection.
- e) In order to derive rates of extra Items ,if any, which are not included in schedule of work , E-I-C deployed by the JBNSTS at his / her sole discretion may adopt the following :-
- i) The Government norms shall be adopted for labour, materials and any other items respectively.
 - ii) Where rates for extra item of works cannot be established by rate analysis as per (a) above then rate for such item shall be estimated and fixed by the E-I-C based on the market rates and assessment for labour, materials and other factor involved thereon.

1.5 **Price Escalation :-**

- a) The rate quoted shall remain firm throughout the tenure of the contract (including extension of time, if any, granted) and will not be subject to any fluctuation due to increase in cost of materials, labour, taxes, etc. unless specifically provided in these documents.

1.6 **Variation and its Valuation :-**

- a) The Director, JBNSTS or the authorized person, JBNSTS shall have the power to order the Contractor in writing to make any variation of the quantity, quality or design of the works or any part thereof that may, in his / her opinion, be necessary and the Contractor upon receipt of such an order shall act as follows :-
- (i) Increase or decrease the quantity of any work included in the Contract.
 - (ii) Omit any work included in the Contract.
 - (iii) Change the character or quality of kind of any work included in the Contract.

- (iv) Execute extra and additional work of any kind necessary for completion of the works, that will be charged extra.
- b) The Contractor shall not be entitled to any claim of extra, additional or substituted work unless they have been carried out under the written orders of the Director, JBNSTS or the authorized person, JBNSTS.

1.7 Termination of Contract :-

- a) Without being liable for any compensation to the Contractor, the Director, JBNSTS may, in his / her absolute discretion, terminate the Contract in part or as a whole after giving the Contractor a minimum Seven (7) days notice in writing, due to occurrence of any of the following reasons and decision of The Director, JBNSTS in this / her respect shall be final and conclusive ;
 - (i) The Contractor (Agency / Firm) has abandoned the Contract.
 - (ii) In the opinion of the Director, JBNSTS, the contract is not likely to be completed within the agreed period on account of Contractor's lapses.
 - (iii) The Contractor has failed to commence the works (or any part thereof) or has without any lawful excuse under these conditions, has kept the work suspended for at least 15 days despite receiving written notice from JBNSTS to proceed with the work.
 - (iv) The Contractor has failed to remove materials from site.
 - (v) The Contractor is not executing the works in accordance with the Contract or is persistently or flagrantly neglecting to carry out his / her obligations under the Contract.
 - (vi) The Contractor is adjudged insolvent or being a company goes in to liquidation either compulsorily or voluntarily.
- b) Upon receipt of the letter of termination of work, issued by JBNSTS, the Contractor shall hand over all the tools, plant and materials etc issued by JBNSTS to them at the place to be ascertained by The Director, JBNSTS or The Authorized Person, JBNSTS, within Seven (7) Days of receipt of such letter.
- c) In all such cases of Termination of work the Director, JBNSTS or the Authorized Person of JBNSTS shall have the power to complete the work through any other agency or departmentally at the Contractor's risk and expense and the Contractor shall be debited with any sum or sums that may be expended in completing the work beyond the amount that would have been due to the Contractor, had they duly completed the whole of the work in accordance with Contract.

d) Upon termination of Contract, the Contractor (Agency / Firm) shall be entitled to receive payment of only 90% of the value of work actually done or materials actually supplied by them and subject to recoveries as per Contract, provided the work done and materials conform to specifications at the time of taking over by the JBNSTS. The payment for work shall be based on measurements of actual work done and priced at approved Contract rates or other rates, as decided by JBNSTS. The payment for materials supplied shall be at the rates as decided by the JBNSTS, which shall in no case be more than market rates prevailing at the time of taking over by the JBNSTS. However, taking over of materials brought to site but not consumed in the work shall be at the discretion of The Director, JBNSTS or The Authorized Person, JBNSTS . The Contractor may be asked to remove such unutilized materials from the work Site at his / her cost. The Director, JBNSTS or The Authorized Person, JBNSTS decision in all such cases shall be final, binding & conclusive.

e) The Director, JBNSTS or The Authorized Person, JBNSTS shall have the power to retain all amounts due to the Contractor (Agency / Firm) until the work is completed by the other Contractor (Agency / Firm) and the Contractor's (Agency / Firm) liabilities to the JBNSTS are known in all respect.

1.8 Clearance of Site :-

- a) Upon receiving the Completion Certificate by JBNSTS, the Contractor (Agency / Firm) shall remove any remaining Contractor's (Agency / Firm) equipment, surplus material, wreckage and rubbish from
- b) the Site.

- c) If all the aforesaid items have not been removed within Ten (10) Days after the Contractor receives a copy of the Completion Certificate, the JBNSTS may sell or otherwise dispose of any remaining items without any notice to the Contractor (Agency / Firm). JBNSTS shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.

Joydip Das
Asst. Director (Admin.)

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Measurement Sheet for PROPOSED "SECURITY ROOM & RECEPTION" JAGADIS CHANDRA BOSE NATIONAL SCIENCE TALENT SEARCH AT PLOT

Sl. No.	Description of Item	Nos	Length(M)	Breadth(M)	Height(M)	Qty	Unit	Remarks
A) PILE CAP & UNDERGROUND WATER RESERVOIR								
1.0	Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed.	1.0	5.625	3.385		19.040625	Sqm	
2.0	Dismantling of Brickwork masonry							
		1.0	5.04	0.25	0.7	0.88	Cum	
		1.0	2.4	0.125	0.2	0.06	Cum	
	Total Qty of Brickwork dismantling					0.94	Cum	
3.0	Earthwork in excavation					0.00		
a)	Depth upto 1.5m					0.00		
i)	Foundation	4.0	1.80	1.80	1.50	19.44	Cum	
ii)	Floor	1.0	5.63	3.39	0.35	6.66	Cum	
	Total Earthwork Excavation Qty					26.10	Cum	
b)	Depth above 1.5 sqm	4.0	1.80	1.80	0.50	6.48	Cum	
4.0	Earthwork in filling							
i)	Foundation	4.0	2.40	0.60	1.50	8.64	Cum	
ii)	Floor	1.0	5.63	3.39	0.20	3.81	Cum	
	Total Earth filling Qty					12.45	Cum	
5.0	Removal of soil & disposal from site	1.0				30.00	Cum	
6.0	Sand filling							
i)	Foundation	4.0	1.50	1.50	0.70	6.30	Cum	
ii)	Plinth	1.0	5.63	3.39	0.50	9.52	Cum	
	Total Sand Filling Qty					15.82	Cum	
7.00	Brick Flat Soling							
i)	Foundation Bottom	4.0	1.50	1.50		9.00	Sqm	
ii)	Plinth Floor Bottom	1.0	5.63	3.39		19.04	Sqm	
	Total BFS Qty					28.04	Sqm	
8.00	Polythene sheet							
i)	Foundation Bottom	4.0	1.50	1.50		9.00	Sqm	
ii)	Plinth Floor Bottom	1.0	5.63	3.39		19.04	Sqm	
iii)	Tie Beam Bottom	1.0	22.02	0.30		6.60	Sqm	
	Total Polythene Qty					34.65	Sqm	
9.0	PCC 1:2:4							
i)	Foundation Bottom	4.0	1.50	1.50	0.10	0.90	Cum	
ii)	Tie Beam Bottom	1.0	22.02	0.30	0.08	0.50	Cum	
	Total PCC Qty					1.40	Cum	
10.0	Concrete 1:1.5:3							
i)	Foundation	4.0	1.35	1.35	0.45	3.28	Cum	
ii)	Column	4.0	0.25	0.25	5.45	1.36	Cum	
ii)	Tie Beam	1.0	22.02	0.25	0.30	1.65	Cum	
iv)	Lintel Beam	1.0	18.80	0.25	0.13	0.59	Cum	
v)	Chajja	1.0	7.00	0.35	0.10	0.25	Cum	
vi)	Plinth (Floor Bottom)	1.0	5.63	3.39	0.10	1.90	Cum	
vii)	Slab Concrete	1.0	5.63	3.39	0.13	2.38	Cum	
viii)	Beam Concrete	1.0	22.03	0.25	0.30	1.65	Cum	
	Total Concrete Qty					13.06	Cum	
11.0	Shuttering							
i)	Foundation	4.0	5.40		0.30	6.48	Sqm	
ii)	Column	4.0	1.00		5.45	21.80	Sqm	
iii)	Tie Beam	1.0	22.02		0.50	11.01	Sqm	
iv)	Lintel	1.0	18.80		0.25	4.70	Sqm	
v)	Chajja	1.0	7.00		0.50	3.50	Sqm	
vi)	Slab	1.0	5.63		3.39	19.04	Sqm	
vii)	Beam	1.0	22.03		0.55	12.11	Sqm	

**Measurement Sheet for PROPOSED "SECURITY ROOM & RECEPTION" JAGADIS CHANDRA BOSE NATIONAL
SCIENCE TALENT SEARCH AT PLOT**

Sl. No.	Description of Item	Nos	Length(M)	Breadth(M)	Height(M)	Qty	Unit	Remarks
	Total Shuttering Qty					78.64	Sqm	
12.0	Reinforcement (Considered fom total Conc. Volume)	1.0				1.231	MT	
13.0	250 mm Brick work							
i)	Plinth Lvl.	2.0	9.01	0.250	0.25	4.505	Cum	
ii)	East Side Wall	1.0	6.725	0.250	3.0	1.681	Cum	
	Total 250mm Brick work Qty.					6.186	Cum	
14.0	125mm Brick work							
i)	Outer & Intermediate wall	1.0	15.84		3.0	47.520	Sqm	
15.00	FRP door (frame)	2.0	5.00			10.00	Meter	
16.00	FRP door(Panel)	2.0	2.10	0.90		3.78	Sqm	
17.00	MS clamp	12.0				12.000	Nos	
18.00	Butt Hinges	12.0				12.000	Nos	
19.00	Hasp Bolt /Sliding Door Bolt	2.0				2.000	Nos	
20.00	Tower Bolt	2.0				2.000	Nos	
21.00	D type Handle	4.0				4.000	Nos	
22.00	Door Stoper	2.0				2.000	Nos	
23.00	Aluminium window frame	32.3				32.336	Kg.	
24.00	Glass(front portion window)	1.0	3.69	1.35		4.97	Sqm	
	W	1.0	1.50	0.50		0.75	Sqm	
	Total Qty. of Glass					5.72	Sqm	
25.00	Grill(10kg to 16kg)							
	Front Window Portion	1.0	3.69	1.35		74.62	Kg/Sqm	
	W	1.0	1.50	0.50		11.25	Kg/Sqm	
	Total Qty. of Grill					0.86	Qntl	
26.00	Plaster 1:6							
i)	20mm Plaster	1.0	18.02	3.500		63.070	Sqm	
ii)	15mm Plaster	1.0	18.02	3.050		54.961	Sqm	
iii)	10mm Plaster	1.0	5.63	3.385		19.041	Sqm	
27.00	Neat cement punning	1.0	3.6	3.30		11.880	Sqm	
28.00	Floor Tiles							
i)	Floor	1.0	6.02	5.25		31.605	Sqm	
ii)	Skirting	1.0	22.54	0.20		4.508	Sqm	
	Total Tiles Qty.					36.113	Sqm	
29.0	Supplying, fitting & fixing true to line and level digital elevation Ceramic tiles of approved brand conforming to IS:15622:2006 Group B III and tested as per IS:13630:2006 as ornamental cladding on external wall in natural stone, brick, wood, bamboo pattern/ design fixed with adhesive 4.5 mm thick 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 polymerised adhesive and epoxy grout pointing including spacer - 2mm (When tiles are laid over existing hard ready surface) all complete as per direction of Engineer-in-charge.	1.0	7.21	3.45		21.183	Sqm	

**Measurement Sheet for PROPOSED "SECURITY ROOM & RECEPTION" JAGADIS CHANDRA BOSE NATIONAL
SCIENCE TALENT SEARCH AT PLOT**

Sl. No.	Description of Item	Nos	Length(M)	Breadth(M)	Height(M)	Qty	Unit	Remarks
30.00	Putty(Surface Considered from Inside wall plaster)	1.0				74.002	Sqm	
31.00	Inside Primer (Surface Considered from Inside wall plaster)	1.0				74.002	Sqm	
32.00	Outside Primer(Surface Considered from Outside wall plaster)	1.0				63.070	Sqm	
33.00	Inside Paint(Surface Considered from Inside wall plaster)	1.0				74.002	Sqm	
34.00	OutsidePaint(Surface Considered from Outside wall plaster)	1.0				63.070	Sqm	
35.00	Type A Pipe 110 Dia	3.0	3			9.000	Meter	
36.00	87.5 degree Bend 110mm Dia	8.0				8.000	Nos	

**Estimate & Costing for PROPOSED "SECURITY ROOM " OF JAGADIS CHANDRA BOSE NATIONAL SCIENCE
TALENT SEARCH AT 1300, RAJDANGA MAIN ROAD, KOLKATA - 700107**

Annx : 1

Ref:-P.W.D. SCHEDULE OF RATE VOLUME -I 2017(WITH EFFECT FROM 1st NOV-2017 & Latest Corrigenda & Addenda 1 to 14)

(A)Security Room & Reception

Item No.	Description of Item	Qty.	Unit	Rate	Amount
1.00	Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed. [Page-1 & Item No.1]	19.04	Sqm	10.00	190.41
2.00	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. [Page-10 & Item No.1(a)]				
	a) In ground floor including roof.	0.94	Cum	447.00	421.07
3.00	Earth work in excavation of foundation trenches, drains, pile caps, water tank, foundation, raft, beam etc. in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m, as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. [Page-1 & Item No.2(a)]				
	(a) Depth of excavation not exceeding 1,500 mm.	26.10	Cum	119.27	3113.45
	(b) Depth of excavation for additional depth beyond 1,500 mm. and upto 3,000 mm. but not requiring shoring.	6.48	Cum	192.38	1246.62
4.00	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work) [Page-1 & Item No.3(a)]				
	(a) With earth obtained from excavation of foundation	12.45	Cum	77.54	965.23
5.00	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound with in a distance of 3 km. 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. [Page-12 & Item No.13]	30.00	Cum	166.00	4980.00
6.00	(B) Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity) [Page-2 & Item No.4(B)]	15.82	Cum	1317.14	20837.57
7.00	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. [Page-14 & Item No.1]	28.04	Sqm	361.00	10122.67
8.00	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches. [Page-47 & Item No.3]	34.65	Sqm	24.00	831.48
9.00	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes. (i) Pakur Variety [Page-24 & Item No.4(a)]	1.40	Cum	4060.00	5665.53
10.00	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (i) Pakur Variety [Page-24 & Item No.4(a)]	13.06	Cum	4651.00	60754.34
11.00	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 pile cap, foundation beam, raft, concrete slabs, beams and columns or straight including fitting, fixing and striking out after completion of works up to ground level. [Page-42 & Item No.36(c)]				
	(c) Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work	78.642	Sqm	369.00	29018.85
12.00	Reinforcement for reinforced concrete work in all sorts Foundation & structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. [Page-43-44 & Item No.36(c)]				
	(a) For works in foundation and upto roof of ground floor/upto 4 m				
	(i) Tor steel/Mild Steel				
	I. SAIL/ TATA/RINL				
	Foundation & Ground Floor	1.231	MT	60580.00	74543.74
13.00	Brick work with 1st class bricks in cement mortar (1:4) [Page-15 & Item No.7(a)]				
	(a) In foundation and plinth	6.186	Cum	5682.00	35150.27
14.00	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor. [Page-16 & Item No.16]	47.520	Sqm	736.00	34974.72
15.00	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria. [Page-115 & Item No.3(i)]				
	(i) 68mm x 90mm	10.000	Mtr.	497.00	4970.00

Item No.	Description of Item	Qty.	Unit	Rate	Amount
16.00	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolithic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In ground floor.[Page-125 & Item No.14(i)]				
	(i) 32 mm thick	3.780	Sqm	2763.00	10444.14
17.00	Supplying, fitting and fixing M.S. clamps for door and window frame made of flat/bent bar, end bifurcated with necessary screws etc. by cementconcrete(1:2:4) as per direction. (Cost of concrete will be paid separately) [Page-140 & Item No.4(b)]				
	(b) 40mm X 6mm, 200mm Length	12.000	Each	25.00	300.00
18.00	Anodised aluminium butt hinges of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 205/66) and fitted and fixed with cadmium plated screws: [Page-145 & Item No.29(vi)]				
	(vi) 125 x 63 x 3.2mm.	12.000	Each	77.00	924.00
19.00	Anodised aluminium Aldrop / Sliding bolts of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 2681/66) fitted and fixed complete [Page-145 & Item No.28(i)]				
	(i) 250mm x 16mm dia bolt.	2.000	Each	233.00	466.00
20.00	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws:[Page-144 & Item No.26(x)]				
	(x) 300mm long x 12mm dia. bolt.	2.000	Each	151.00	302.00
21.00	Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete:[Page-145-146 & Item No.30(vii)]				
	(a) With continuous plate base (Hexagonal/ Round rod)				
	(vii) 150 mm grip x 12 mm dia rod.	4.000	Each	111.00	444.00
22.00	(i) Door stopper.(Brass) [Page-143 & Item No.19(i)]	2.000	Each	117.00	234.00
23.00	Providing, fitting and fixing in position glazed casement/2/trake or sliding windows and casement or fixed type windows, skylights ventilators with 6mm thick float/smoke glass in natural mat finish anodised colour powder coated (10-12 micron) aluminium section of series 40 mitre and jointed crimped with stainless steel friction stay, handles, locks, glazing clips, EPDM gasket, weather pile in frame grooves, nickel chrome plated fixing screws all of approved make including all materials and labour as per drawings, specifications complete. All floors & roof (excluding cost of glass)	32.336	Kg.	494.00	15973.92
24.00	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.[Page-243 & Item No.9(vi)]				
	(vi) 6mm thick coloured / tinted / smoke glass.	4.975	Sqm	661.00	3288.31
25.00	(a) M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor:[Page-104 & Item No.13]				
	(i) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.	0.859	Qntl	9888.00	8490.95
26.00	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 (Ground floor).[Excluding cost of chipping over concrete surface][Page-189 & Item No.9(i)]				
	(i) With 1:6 cement mortar				
	20 mm thick plaster	63.070	Sqm	175.00	11037.25
	15 mm thick plaster	54.961	Sqm	151.00	8299.11
	(ii) With 1:4 cement mortar				
	10mm thick plaster	19.041	Sqm	133.00	2532.40
27.00	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.[Page-192 & Item No.15]	11.880	Sqm	34.00	403.92
28.00	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 / epoxygrout 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 contrrje) I [Page-66 & Item No.36(I)/(B)]				
		36.113	Sqm	1285.00	46405.21

Item No.	Description of Item	Qty.	Unit	Rate	Amount
29.00	Supplying, fitting and fixing granite tiles 10 mm to 12 mm thick in columns,wall,façia etc. with 15 mm thick (avg) cement mortar (1:2) including making suitable arrangements to hold the stones properly by brass/copper hooks including pointing in cement mortar (1:2) (1 white cement ; 2 marble dust) with admixture of pigment matching the stones shade all complete as per direction of the E-II-C including cost of all material, labour, scaffolding, staging, curing and roughening of concrete surface complete (using cement slurry at the backside of tiles @4.4 kg/Sqm and white cement slurry for joint filling @ 1.8 kg/sq.m)	6.00	Sqm	1965.00	11790.00
30.00	Supplying, fitting & fixing true to line and level digital elevation Ceramic tiles of approved brand conforming to IS:15622:2006 Group B III and tested as per IS:13630:2006 as ornamental cladding on external wall in natural stone, brick, wood, bamboo pattern/ design fixed with adhesive 4.5 mm thick 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 polymerised adhesive and epoxy grout pointing including spacer - 2mm (When tiles are laid over existing hard ready surface) all complete as per direction of Engineer-in-charge.[Page-68 & Item No.40]	21.183	Sqm	982.00	
31.00	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)[Page-198 & Item No.5]	74.002	Sqm	122.00	

Item No.	Description of Item	Qty.	Unit	Rate	Amount
32.00	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (In Ground Floor) [Page-195-196 & Item No.7(b)(f)]				
	(b) Two Coats				
	i) Water based interior grade Acrylic Primer	74.002	Sqm	44.20	3270.87
33.00	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[Page-196 & Item No.8(b)]				
	(b) Two Coats	63.070	Sqm	45.10	2844.46
34.00	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty : (Two coats)[Page-201 & Item No.4(i)]				
	i) Standard Quality	74.002	Sqm	62.00	4588.10
35.00	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.[Page-197 & Item No.17(a)]				
	In Ground floor (Two Coat)				
	a) Normal Acrylic Emulsion	63.070	Sqm	67.00	4225.69
36.00	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materials (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete..[Page-212 & Item No.21]				
	A) UPVC Pipes:				
	(ii) 110 mm. Dia.	9.000	Metre	251.00	2259.00
	B) UPVC Fittings:				
	c) Bend 87.5 degree				
	(ii) 110 mm. Dia.	8.000	Nos	140.00	1120.00
	(A) Total Amount of Security Room				427429.00
	(B) 12% GST, as applicable on (A				51291.48
	[C] Contingency charge @ 3% on [A] + [B]				14361.61
	(D) Labour welfare cess @1% on(A+B)				4787.20
	GROSS TOTAL (A+B+C+D)				497869.29
	Say				497869.00

(Rs. Four lakh Ninety Seven thousand Eight hundred Sixty nine) 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.

Thus our offer amounts to Rs.

Rs.() only

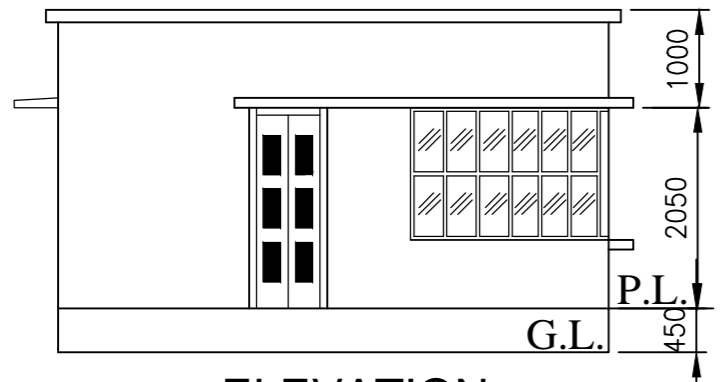
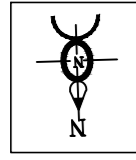
Signature of the contractor with seal, address and telephone no.

Name of Agency / Contractor

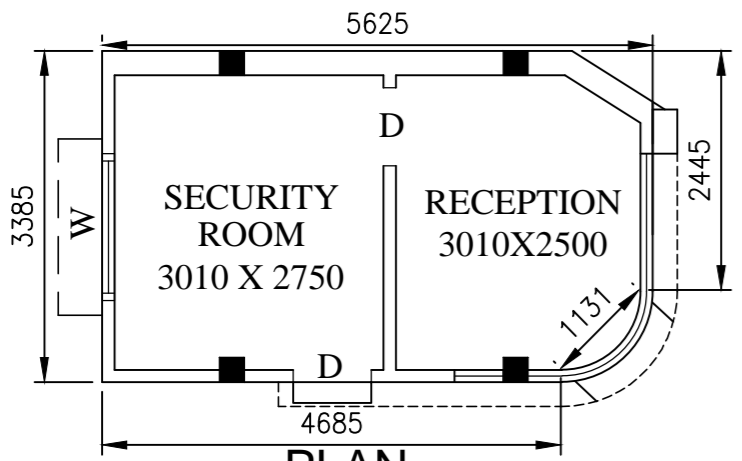
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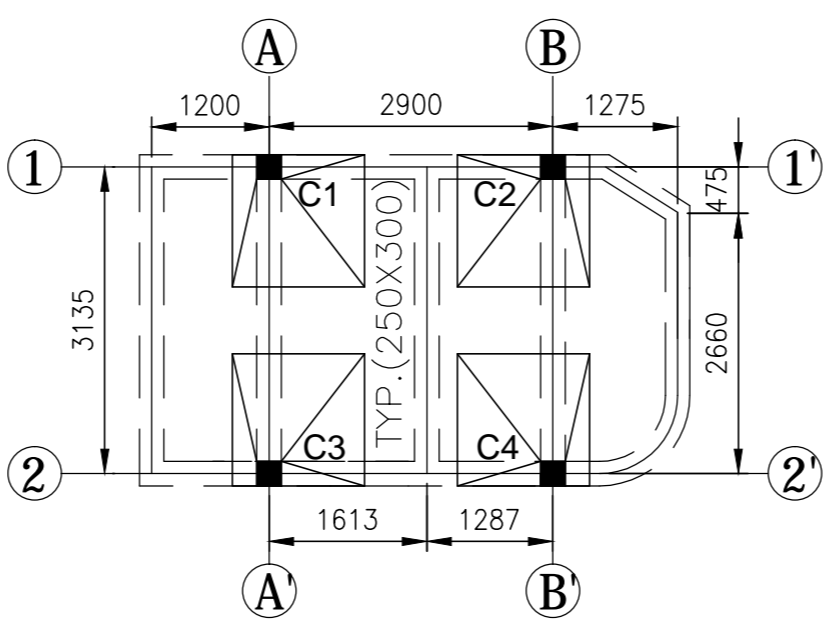
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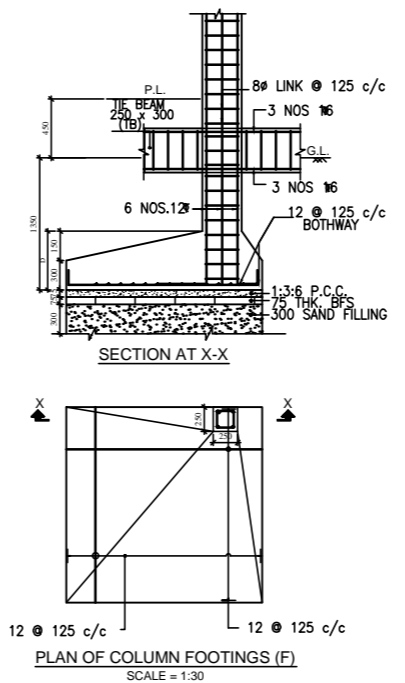
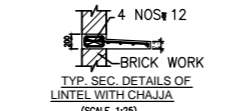
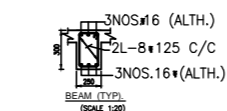
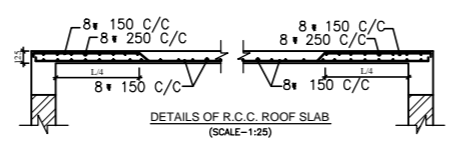
ELEVATION
(SCALE 1:100)



PLAN
(SCALE 1:100)



TYP. BEAM PLAN FOR FLOOR
(SCALE 1:100)



ALL DIMENSIONS ARE IN MM

NOTES & SPECIFICATIONS :

1. ALL DIMS ARE IN MM. UNLESS OTHERWISE NOTED.
2. GRADE OF CONCRETE M20. CONFORMING IS :456-1978.
3. GRADE OF REINFORCEMENT STEEL SHALL BE H.Y.S.D. BARS(#)
FE-500 ,CONFORMING IS:1786-1985.
4. NOMINAL COVER TO MAIN REINFORCEMENT IN
a) FOUNDATION = 50 MM. b) COLUMN = 40 MM.
c) BEAM = 30 MM. d) WAIST SLAB = 20 MM.
5. 250 THK. OUTER & INNER WALL WITH 1:6 MORTAR
6. ALL CEILING AND RCC PLASTER 12. THK. WITH 1:4 MORTAR AND ALL
WALL PLASTER 15 THK. WITH 1:6 MORTAR.
7. QUALITY OF BRICKS 1ST CLASS.
8. SCALE NOTED.
9. ROOF AND LIME TERRACING WILL BE WITH THEIR PROPER WATER
PROOFING COMPOUND.
10. PLAIN CEMENT CONCRETE SHALL BE (1:3:6)
11. THE DEPTH OF THE FOUNDATION OF SEPTIC TANK SHOULD
NOT EXCEED THE DEPTH OF BUILDING.
12. LAP LENGTH SHALL BE 50D WHERE 'D' IS THE DIA. METER OF THE BAR.

REFERENCE

PROPOSED BLDG. FLOOR AREA. _____ 18.63 SQ.M.

SCHEDULE OF ISOLATED FOOTINGS

FOOTING MKD.	BELOW COLUMN	DIMENSIONS			REINF. (BOTHWAYS)
		L	B	D	
F	C1,C2,C3 & C4	1350	1350	300	12Φ @ 125 c/c

SCHEDULE OF DOORS & WINDOWS

TYPE	MASONRY	OPENING
	WIDTH	HEIGHT
D	800	2050
W	1500	500

SCHEDULE OF FLOOR BEAMS

BEAM MKD.	BEAM SIZE	AT SUPPORT		AT SPAN		STIRRUPS
		TOP REINF.	BOT. REINF.	TOP REINF.	BOT. REINF.	
FB	250x300	3-16Φ	3-16Φ	3-16Φ	3-16Φ	2L-8Φ @ 125 c/c

STATEMENT OF THE PLAN PROPOSAL

PROPOSED SECURITY ROOM & RECEPTION FOR JAGADISH BOSE NATIONAL SCIENCE TALENT SEARCH. 1300 RAJDANGA MAIN ROAD, KASBA, KOLKATA -700107 WARD - 107, BOROUGH -XII

DRAWN BY

CHECKED BY

SIGNATURE OF OWNER