### भौतिकी संस्थान

भुवनेश्वर

### **Institute of Physics**

Bhubaneswar - 751005, India

(परमाणु ऊर्जा विभाग, भारत सरकार का एक स्वयं शासित अनुसंधान संस्थान) (An Autonomous research institution of Dept. of Atomic Energy, Govt of India)

No	/IP	April	,2009
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#### **TENDER CALL NOTICE**

Sealed tenders are invited from the Government registered "C" and above class contractors for taking up the a) Renovation work of SUNAG Lab & Toilets. and b) Construction of Electrical Panel Room in the Institute.

Estimated	Cost of tender paper	Class of Contractor	EMD required for the work	Time for completion
Rs.6,36,345/-	Rs.400/-	"C" and above	Rs.15910/-	7 months
	cost	cost tender paper	cost tender Contractor paper	cost tender Contractor for the work

The tender documents may be purchased from the office on payment of Rs.400.00 (Rupees four hundred only) (non refundable) by cash during the office hours from 10.00A.M. - 3.00P.M. on working days only.

Incase the tender documents downloaded, then the contractor will have to pay the cost of the tender paper in shape of D.D/pay order amounting to Rs.400.00 (Rupees four hundred only) (Non refundable) drawn in favour of Director,Institute of Physics,BBSR.

The estimated cost of the work is Rs.6,36,345/- (Rupees Six Lakh Thirty Six Thousand Three Hundred Forty Five only)

Last date of sale of Tender Paper is \ \\_\_\_\_\_\_,05.2009 upto 1 P.M

The tender papers will be received upto 3.00P.M. on 17.05.2009 and will be opened on the same day at 4.30 P.M.

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The tender paper should accompany with the following documents at the time of submission.

- a) Proof of registration with Govt./Semi Govt. organizations like CPWD, State
   PWD /Railway etc.in appropriate class, PAN card, VAT Clearance certificates etc.
- Experience having successful completion of similar type of work of similar amount during last 3 years.
- c) List of similar works in hand or works carried by them during last 3 years.
- d) List of equipments, accessories and infrastructure facilities possessed by the agency.
- e) EMD amounting to Rs.15,910/- (Rupees fifteen thousand nine hundred ten only) in shape of demand draft or bankers cheque, drawn in favour of the Director, Institute of Physics, Bhubaneswar
  - In the absence of any of the documents listed above the tender papers will not be entertained.
- Note:- 1) The tenderer is required to go through the tender documents in detail and visit the work site to make himself conversant regarding the work before filling up the tender paper.
  - 2) The authority reserves the right to reject any or all tenders without assigning any reason thereof.

DIRECTOR 24/4/29

Richard



### **Institute of Physics**

(An autonomous research Institution of Dept. of Atomic Energy, Govt. of India)
Po: Sainik School, Bhubaneswar-751 005, India
Tel: (0674)300637, 301058, 301823 Fax: (0674) 300142
Web:http://www.iopb.res.in

# FOR A) RENOVATION WORK FOR SUNAG LAB AND TOILETS B) CONSTRUCTION OF ELECTRICAL PANEL ROOM

#### **SCHEDULE OF QUANTITIES**

Name of the Work :-A) RENOVATION WORK FOR SUNAG LAB AND TOILETS.

B) CONSTRUCTION OF ELECTRICAL PANEL ROOM.

SI.	Description of items	Unit	Qnty.	Uı	Amount	
lo.				In figure	In word	(Rs.)
1	Earth work for excavation of foundation trenches in all kinds of soil including dressing the sides and levelling the bottom and depositing the soil as per the direction of the Engineer-in-charge with an initial lift of 1.5m and initial lead of 50m complete with cost of all labour and tools and plants as may be required complete in all respect as per design and specification					
	a) 0.00					
	b) 24.98	Cum	24.98			
2	Cement concrete (1:4:8) in foundation and plinth with 40mm size crusher broken hard granite stone metal including laying to proper line and level, watering, curing etc. complete as per design and specification with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per the direction of Engineer-in-charge.					
	a) 0.00					
	b) 7.24	Cum	7.24			
3	Dismentalling of brick masonary walls/glass windows /wooden door shutters /wooden choukath including stacking the useful materials for reuse and removal of debrisses outside campus with cost of all labour and all tools and plants, scarfolding etc required for the work etc complete in all respect as per the direction of thwe Engineer-in-charge.					
	i) Brick walls					
	a) 94.83 Sqm					
	b)0.00					

	ii) wooden door shutters					
	a) 13.75 Sqm					
	b)0.00		-			
	iii) Glass window			 		
	a) 6.34Sqm					
	b)0.00					
	iv) Wooden choukath					
	a) 70.00 Rmt					
	b)0.00					
4	1st class K.B. Brick work in foundation and plinth with cement mortar (1:6) using best and approved quality of bricks (the bricks to be soaked in water for minimum 6hrs before use) to correct line, level and plumb including scaffolding watering curing, circular mouldings, racking out joints etc. complete with cost and conveyance of all materials and labour required for the work etc complete in all respect as per direction of the Engineer-in-charge.					
	a) 0.00	Cum	17.20			
	b) 17.20	Cum	17.20			
5	Filling the foundation and plinth with river bed sand of approved quary including watering ramming and compacting the base to the required level as per the direction of the Engineer in charge complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect.	-				
	a) 0.00					
	b) 9.28	Cum	9.28			

6	1st class K.B. Brick work in super structure with cement mortar (1:6) using best and approved quality of bricks (the bricks to be soaked in water for minimum 6hrs before use) to correct line, level and plumb including scaffolding watering curing, circular mouldings, racking out joints etc complete with cost and convenyance of all materials and labour required for the work etc. complete in all respect as per direction of the Engineer-in-Charge.				
	a) 14.44	Cum	14.44		-
	b) 14.54	Cum	14.54		-
7	R.C.C. Work in cement concrete(1:2:4) using 12mm size hard granite chips for slabs including cost of rigid and smooth centring and shuttering to proper line and level, watering curring etc with cost and conveyance of of all materials, labour charges T& P etc. complete but excluding the cost of reinforcement and labour charges cutting, bending, binding of rods as per the direction of the Engineer-incharge.  a) 0.00				
	b) 12.01	Cum	12.01		
8	Cutting bending, binding and tying the grills as per design and specification and placing in position including cost and conveyance of reinforcement binding wire of 18 to 20 gauge and labour required for the work etc. complete in all respect as per the direction of the Engineer-in-charge.				
	a) 0.00				
	b) 12.01	Qntl	12.01		

9	12mm thick cement plaster in cement mortar (1:6) over the internal surface of brick/concrete surface to proper plane and plumb and finished smooth including racking out joints, scarfolding,watering, curing etc complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per direction of the Engineer-incharge.  a) 134.88		134.88			
	104.00	Oqiii	134.00		wante for the second se	
	b) 80.64	Sqm	80.64			
10	18mm thick cement plaster in two layers, (1st layer 12 mm thick with cement mortar (1:6) and 2nd layer 6 mm thick with cement mortar(1:4) )over external surface of brick walls to proper plane and plumb and finished smooth including racking out joints, scarfolding watering curing etc complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per direction of the Engineer-in-charge.					
	a) 0.00					
	b) 84.25	Sqm	84.25	-		
	6mm thick cement plaster in cement mortar (1:4) for ceilings to proper plane and plumb and finished smooth including racking out joints, scarfolding watering curing etc complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per direction of the Engineer-in-charge.					
	a) 0.00					
-2.00	b) 65.24	Sqm	65.24			

12	Supplying and fixing of Johnson/Kajaria/NITCO/ Oreva or equivalent make fully vitrified floor tile in the floor to proper line and level afte chiping the old surface, preparation of base with cement mortar (1:1) or application of adhesive of "Pidilite" make and fill up the joints by applying cement slurry mixed with appropriate colour pigement complete with cost and and conveyance of all materials and labour required for the work etc. complete in all respect as per the direction of the Engineer-in-charge.				
	a) 96.58	Sqm	96.58		
	b)0.00				
13	2.5 CM thick A.S flooring with cement concrete (1:2:4) and finished smooth with neat cement punning complete with cost and conveyance of all materials and labour required for the work etc complete in all respectas per the direction of the Engineer-in-charge.				
	a) 0.00				
	b) 55.39	Sqm	55.39		
14	Providing and laying 1.5 mm thick Venyle flooring of approved make and quality complete with cost and conveyance of all materials and consumables and labour required for the work etc. complete in all respect as per the direction of the Engineer in-charge.				
	a) 0.00				
	b) 55.39	Sqm	55.39		

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15	Supplying and fixing of Jonson/NITCO/Kajaria /Oreva or equivalent make glazed wall tiles of approved quality on the wall surface to proper line and level after chiping the old surface, preparation of base with cement mortar (1:4) or application of "Pedilite" Make adhesive and fill up the joints by applying cement slurry mixed with appropriate colour pigement complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per the direction of Engineer-incharge.	Sqm	14.90			
	b)9.80	Sqm	9.80			
	10)3.00	Oqiii	3.00			
16	Making, supplying, fitting and fixing of wooden choukaths made up of well seasoned sal wood sizes 5"x2 1/2" as per the approved design and specification, after dismentaling the old ones including stacking the useful materials for reuse and removal of debrises within initial lead and lift, fixing the choukaths in position with w.i. clamps grouted with cement mortar (1:3) complete and making good to the damages of wall, with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per the direction of EIC					
	a) 8.50	Cft.	8.50			

17	Making, supplying and fixing of 35 mm thick teak wood pannelled shutters for doors and windows embounded with galvanised 4" size hinges including cost of fittings like 8" aluminum door bolts, Al. handles (both sides). Godrej make 6 lever mortise locks etc. as the case may be, painting the surface with a coat of wood primer complete with cost and conveyance of all materials and labour required for the work etc. complete in all respect as per the direction of the Engineer-in-charge.				
	a) 122.50	Sqft.	122.50		
	b) 198.50	Sqft.	198.50		
18	20mm thick grading plaster with cement concrete (1:4) of approved quality over the top of the roof slabs and laid to proper slope including rounding corner, watering and curring with cost and conveyance of all materials, labour, Tools and plants etc. required for the work, complete in all respect as per the direction of the Engineer in-charge.  a) 0.00				
	b) 35.69	Sqm.	35.69		
19	Painting the inner surface of walls with oil bound distemper (two or more coats) to give an even look of approved make and approved shade over a coat of cement primer, after cleaning the wall surface thoroughly and making good to the damages if any by applying wall putty including cost and conveyance of all materials, tools and plants, scarfolding and labour required for the work etc. complete in all respect as per the direction of Engineer-in-charge.		55.00		
	a) 55.69	Sqm	55.69		
	b) 35.69	Sqm	35.69		

20	Painting the exterior surface of wall with					
	two coats of cement based exterior paint (weather coat) of approved make and			•		
	approved shade (Nerolac Surakhya/ICI					
	Super Coat/ or equivalent) over a coat of					
	primer after cleaning the old surface					
	thoroughly with wire brush and making					
	good to the damages if any by applying rich					
	cement mortar or exterior wall putty as the					
	case may be as per the direction of the					
	Engineer-in-charge including cost of all					
	materials, labour, tools & Plants,					
	scarfolding etc. required for the work complete in all respect as per the direction					
	of the Engineer-in-charge.			-		
	a) 0.00					
	b) 42.48	Sqm	42.48			
21	Providing and fixing of M.S.grills for					
	windows of approved design and					
	specification complete with cost and					
	conveyance of all materials and labour required for the work etc.complete in all					
	respect as per the direction of the Engineer					
	in-charge.					
	a) 60.00	Kg.	60.00			
	b) 232.50	Kg.	232.50			
				TO	TAL AMOUNT =	Pe
				10	TAL AMOUNT -	N3.

N.B:-

The Contractor is required to go in detail before coating the rate.

#### **PREAMBLE**

### Name of the Work:- A) Renovation work for SUNAG Lab and Toilets. B) Construction of Electrical panel room.

- The estimated cost of the above work is Rs.6,36,345.00 (Rupees Six Lakh Thirty Six Thousand Three Hundred Forty Five only)
- 2) The contractors are deemed to have inspected the site and to have investigated the conditions under which the work has to be executed. No claim of any kind shall be entertained on account of ignorance in this respect.
- The contractors should have adequate and effective organisation for communications with the Engineer-in-charge, Institute of Physics, Bhubaneswar.
- 4) Tender should be signed by persons duly authorised to do so and if required such authority (Power of attorney etc) shall be furnished to the Director.
- 5) Neither the security deposit nor the retention money shall bear any interest.
- 6) The tenders must be filled in ink and in a legible way. Over writing should be avoided. All corrections must be attested by the tenderer with his initials before submission of the tender.
- 7) Tenders proposing any alterations in the work or specifications or in the form of tender or in any other conditions are liable to rejection.
- 8) This is an item rate tender. Payment will be made to the Contractor as per actual measurement.
- 9) The rate should be filled in figure and in words. The amount and the totals should also be drawn.
- 10) If the rate in figure differ from the rate in words then the rate corresponding to the calculated amount shall be taken as correct. If the calculated amount does not tally with any of the two rates then the lower of the two rates shall be accepted and the amount shall be corrected.
- 11) Sales Tax, Octroi or any other tax on materials in respect of this contract shall be payable by the contractor.

- 12) 10% of the work value will be kept as security money, which will be deducted from the payments against this work and will be refunded back after 6 months of successful completion of the work.
- 13) Payment will be made after completion of the work as per actual measurement submitted by you after checking the measurement physically by the Engineerin-charge and payment of the bills will be made within 10 days of the checking of the bills by the Engineer-in-charge.
- 14) The total time allowed for the completion of the work is strictly for 7 months from the date of receipt of Work Order.
- 15) Income tax, work contract tax other statutory taxes as may be applicable will be deducted on all the payments made to you.
- 16) The rates quoted by you will remain firm within ±10% of variation in quantity of any item.
- 17) On the recommendation of the Engineer-in-charge based on the workmanship, quantity and quality of work done the bill will be passed for payment.
- 18) The acceptance of tender will rest with the Director, Institute of Physics, Bhubaneswar. The Director does not bind himself to accept the lowest tender and reserve the authority to reject any or all the tenders without assigning any reason and reserve the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable for rejection.
- 19) The employer does not undertake any responsibility regarding any instructions issued verbally in respect of this tender. All questions relating to the tender shall be referred to the Director in writing. The Director shall there upon issue a common circular to all tenders, if necessary.
- 20) The amounts to be calculated against various items shall be in terms of whole rupees, less than fifty paise being ignored and fifty paise and above being rounded to the next rupees.

#### SCHEDULE OF CONDITIONS

### Name of the Work:- A)Renovation work for SUNAG Lab and Toilets. B) Construction of Electrical panel room.

- General: The Contractor shall forthwith in a good substantial and workman like manner, to the satisfaction of the Institute, build and complete the work at Bhubaneswar.
- 2) Date of completion: The Contractor shall actively prosecute the execution of completion of the work to the satisfaction of the Director. The work specified above shall be in all respect complete on or before 7 months from the placement of the order.
- 3) Materials: The Contractor shall provide at his own cost all materials specified in the bills of quantities (with exception of those otherwise mentioned in the specifications) and all labour, tools and plants scaffolding and other implements of every description necessary for execution and completion of the work. All materials to be supplied by the contractor shall be the best of their respective kinds and subject to be approved by the Director.
- Sub-Contractor: The Contractor shall not assign or sublet the contract for the work or any part thereof.
- 5) Removal of equipment: The Contractor shall, at his own expenses, within one week from the completion date, remove all tools, plants, scaffoldings, implements and unused materials from the site and leave the same in a clean and proper state, to the satisfaction of the Director.
- Inspection of works: The Contractor shall allow the Engineer-in-charge to inspect and supervise the work during its progress.
- 7) Defective work & rejections: The Contractor shall within 24 hours of notice so to do forth with pull down and rebuild any part of the work which has not been erected, build or completed to the satisfaction of the Director or which is in the opinion of the Director, defective or not in accordance with the specification or the plans.
- 8) Alternation or Deviations: The Institute may at any time during the progress of the work by order in writing make any alteration in the original specifications or plans by way of addition, omission or other deviation the reform whereupon the

- Contractors shall execute the work according to such alterations to the satisfactions of the Director.
- 9) Additions & Deductions: All additions and deductions to be made to or from amount of the contract price in respect of any such alteration in the specifications or plans shall be ascertained according to the rates specified in the bill of quantities (provided that if appropriate rates are therein specified, they shall be fixed by mutual agreement between the parties) and the difference of expenses occasioned by any such alteration shall be added to or deducted from the contract price. No payment or allowance whatsoever shall be made to the Contractor for any work done or materials used without a previous order, in writing from the Director.
- 10) Measurement of work: The work as it proceeds will be measured net exposed measurements. The Contractors or his representative will accompany the Engineer-in-charge in order that they agree on the measurements. The measurement book can also be examined at the office of the Director before payment is made.
- 11) Precautions against accident: The contractor shall, at all times, take due and proper precautions against accidents or injury to the work or any person or property, and shall indemnify the company for all motions suits or any damage or compensation payable in consequence of any accident or injury sustained by any workman or other person whether in the employment of the Contractor or not.
- 12) Failure to prosecute the execution of the work: If the Contractor shall fail actively to prosecute the execution and completion of the work or shall otherwise fail to comply with any of the terms and conditions of this order, then the Institute shall be at liberty without avoiding this order forthwith, to require the Contractor to remove his workmen from the site and to take the work out of the hands of the Contractor and to employ any other person to execute and possession of, and use all materials, tools, scaffolding, plants, implements and things on or about the work, and thereafter neither the Contractor nor his workman shall have any power to intervene with any person employed by the Institute.

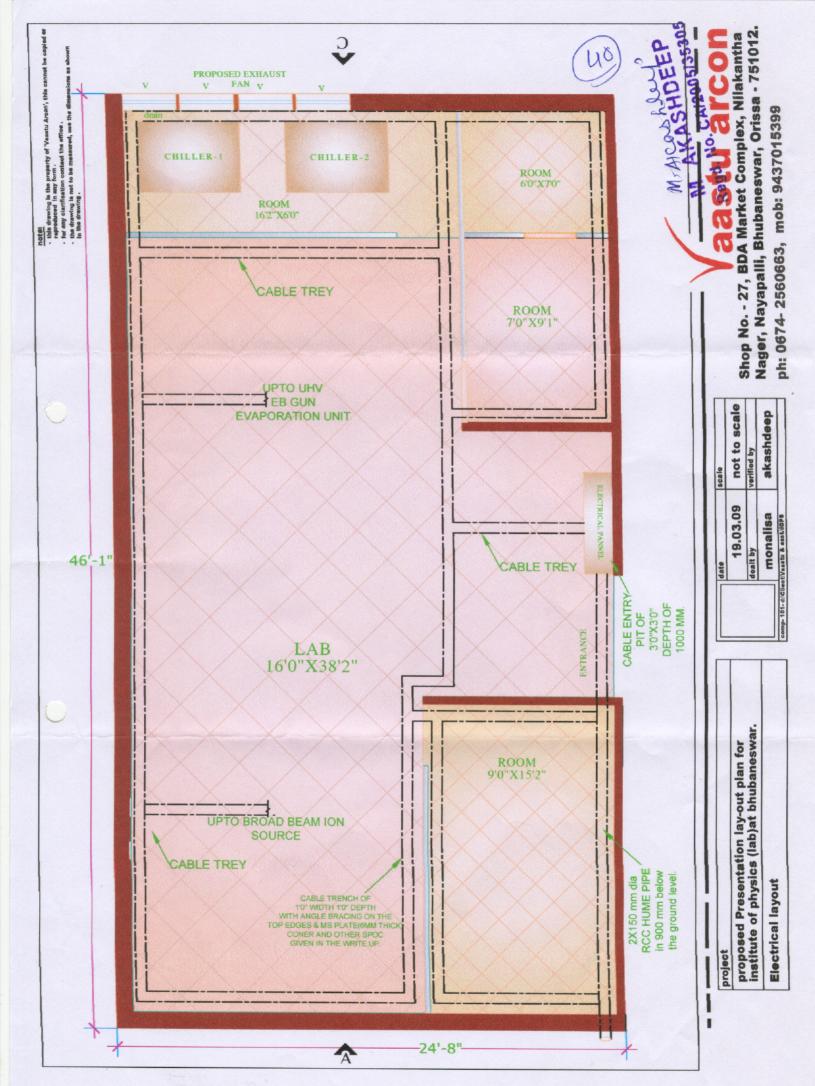
All expenses and damaged to property incurred by the Institute, consequent on the employment and certified by Director and shall be paid to the Institute by the Contractor or deducted by the Institute from any money due to or to become due to the Contractor.

- 13) Serving Notices: Any notice to the Contractor under this order may be served personally or by registered post addressed to the Contractor last known place of address.
- 14) Discrepancies: Should there be any discrepancies between the plans, specifications and bills of quantities the same shall be immediately referred to the Director who shall decide what shall be followed.
- 15) The work will be taken up in hands within seven days of the award of the work and shall be completed in all respect within 7 months from the date of start.
- 16) Extension of time for completion may be allowed if the Director consider that the reasons for the delay in completion of the work is beyond the control of the Contractor.

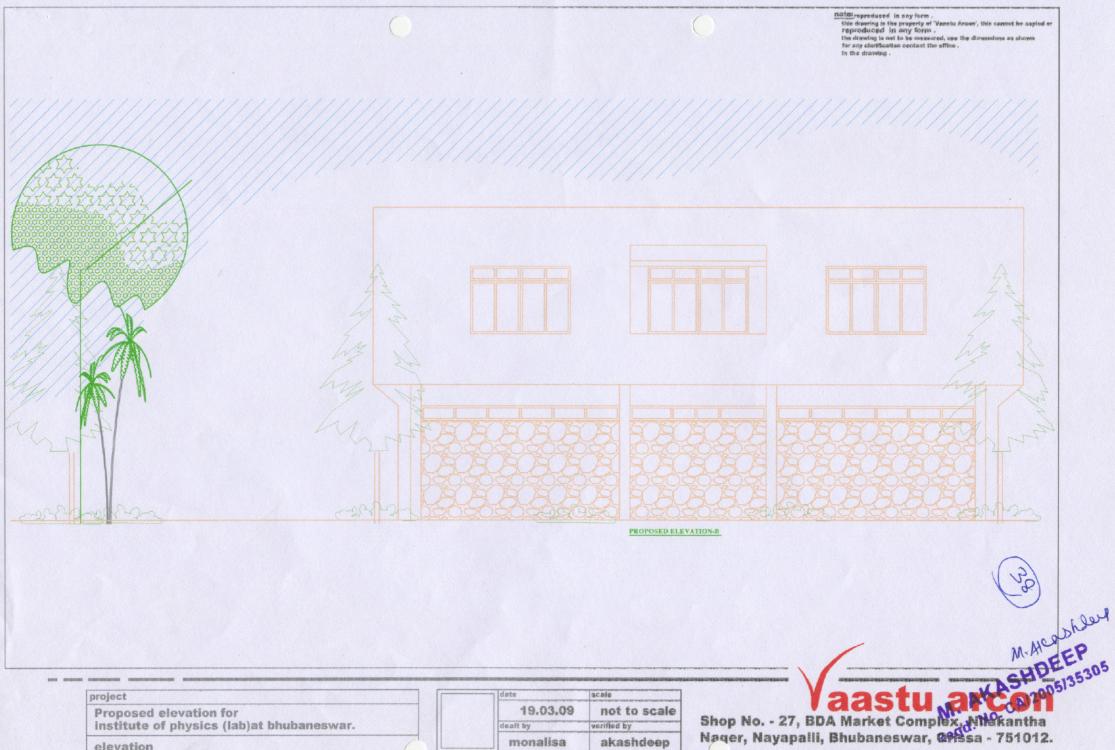
### Name of the Work:- A)Renovation work for SUNAG Lab and Toilets. B) Construction of Electrical panel room.

1 Defects Liability = 6 months 2. Period of final measurement = Within 10days of and valuation submission of the bill by the contractor 3. = Within 7 days from the Date of commencement date of issue of the work order 4. = 0.5% per week subject Agreed liquidated damages (Penalty) to maximum of 5% 5. Minimum value of work for = No Interim payment is allowed interim payment. Security deposit or Retention = 10% of total value of 6. work to be deducted money from each payment against this made work = Within 10 days 7. Payment of submission of bill = Within 7 months of 8. Completion Period commencement of the work.



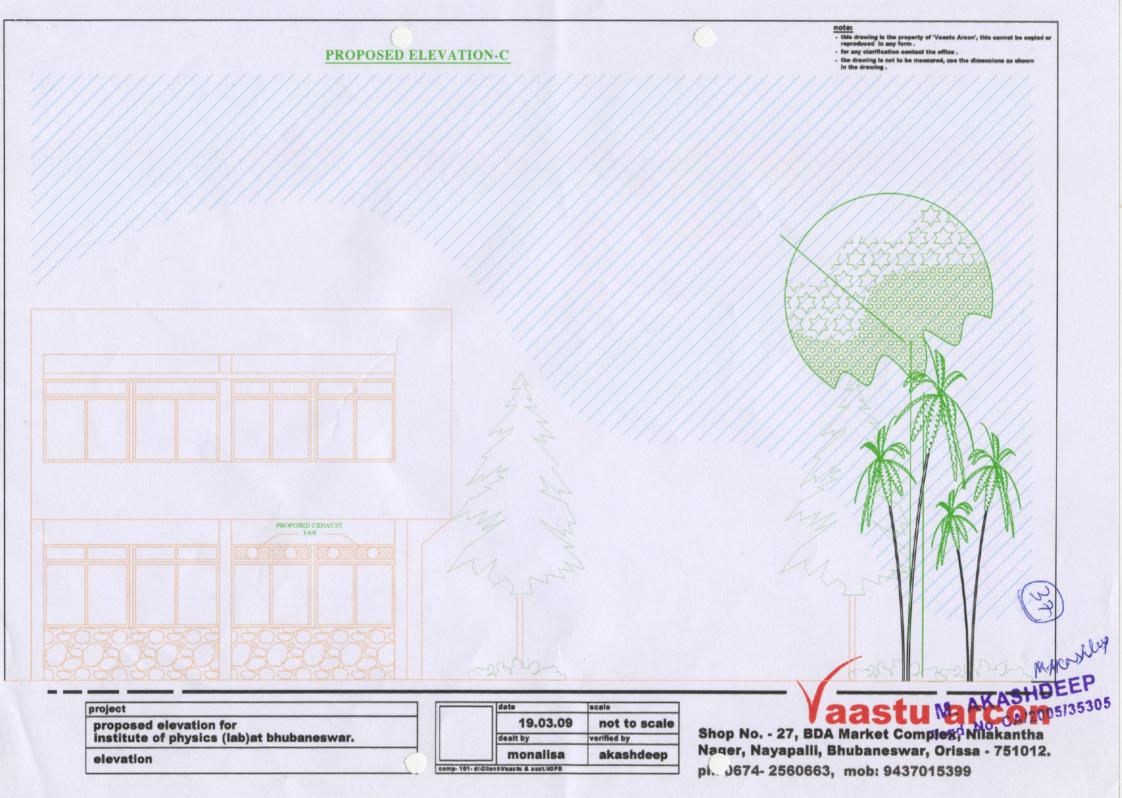


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monalisa akashdeep p- 101- d: Client Vasstu & ssst. 40PB pl. .0674- 2560663, mob: 9437015399

elevation



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BUILDING BUILDING BUILDING ELECTRICAL PANEL ROOM



Shop No. - 27, BDA Market Complex, Nilakantha

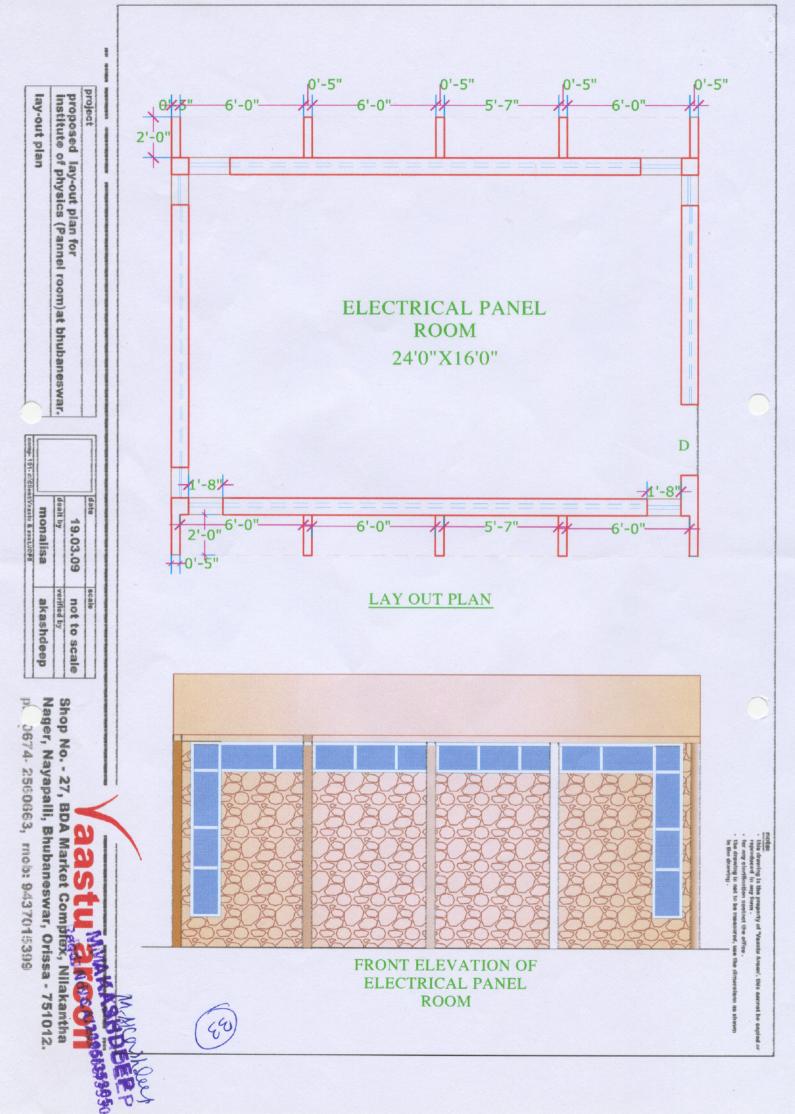
project

proposed detail lay-out plan for institute of physics (pannel room)at bhubaneswar.

detail plan

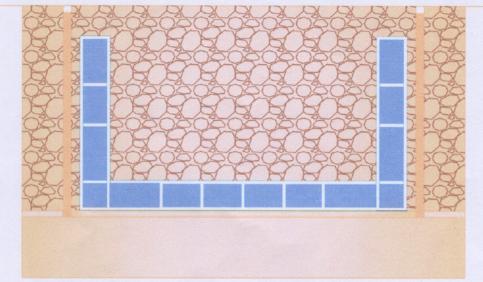
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Nager, Nayapalli, Bhubaneswar, Orissa - 751012. ph: 0674- 2560663, mob: 9437015399

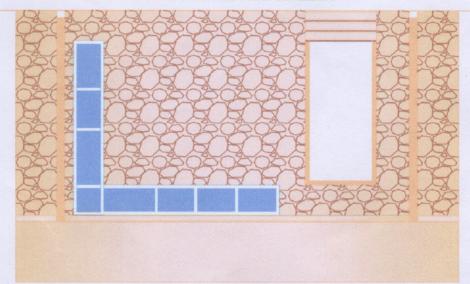


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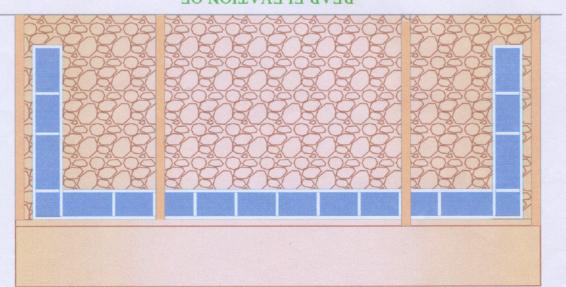
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# ELECTRICAL PAUEL LEFT ELEVATION OF



# ELECTRICAL PANEL ROOM



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19.03.09 not to scale Shop dealt by monalisa akashdeep Nager

proposed lay-out plan for institute of physics (lab)at bhubaneswar.

elevation