

# YADAVINDRA PUBLIC SCHOOL

PATIALA – 147001 (Pb) INDIA Phone – 0175-22130160, 2217631

Websie : [www.ypspatiala.in](http://www.ypspatiala.in) Email - [director@ypspatiala.in](mailto:director@ypspatiala.in)

NAME OF CLIENT	Director Yadavindra Public School Patiala
NAME AND ADDRESS OF TENDERER	
NAME OF WORK	Construction of 50m Swimming pool
ESTIMATED COST	₹ 400 Lakhs
EARNEST MONEY	₹ 3.0 Lac
TIME LIMIT	18 Months & 15 days
TENDER DOCUMENTS	To be downloaded from <a href="http://www.ypspatiala.in">www.ypspatiala.in</a>
LAST DATE AND TIME FOR RECEIPT OF TENDER	11.30 a.m., 25 Aug 2022
DATE AND TIME FOR OPENING OF TENDER	1.00 p.m, 25 Aug 2022

Signature of Contractor

Signature of Client

# YADAVINDRA PUBLIC SCHOOL, PATIALA

## TENDER NOTICE

Sealed tenders for item rate contract are hereby invited for the construction of the below mentioned work:

Ser No.	Description	Approx. cost	Earnest money	Time Period
1	Construction of a 50m Swimming pool including Civil, Electrical, Plumbing Work at Yadavindra Public School Patiala,	₹ 400 Lac	₹ 3.0 Lac	18 months + 15 days

### Terms and conditions: -

1. Tender documents can be downloaded from Y.P.S. Patiala website i.e [www.ypspatiala.in](http://www.ypspatiala.in) . Drawings and specifications can be downloaded after 16 Aug 2022.
2. Earnest money shall be accepted in the form of bank draft of any scheduled bank in the name of Director, Yadavindra Public School, Patiala.
3. Security @ 5 % will be retained from the running bills and the final bill of the contractor. The earnest money shall be converted into security deposit so that total security deposit including the earnest money shall amount to 5 % of the work done. 50% of the security will be returned after 6 months of actual completion of work and the balance amount will be returned after 12 months subject to rectification of snags/defects, if any, as certified by the Architect and Engineer incharge.
4. The tender accepting authority : The employer, does not bind itself to accepting the lowest or any tender, and reserves to itself the right to accept or reject any or all the tenders either in whole or in part, without assigning any reason for doing so.

Signature of Contractor

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5. **Eligibility Condition.** Parties who have completed atleast one civil construction work of the value of ₹ 5 Crore or two works of ₹ 3 Crore each during last three years since June 2019 or have work of above value in progress, are eligible to apply. The tenderer to furnish details of work as under:-
- (a) Nature of work
  - (b) Name of client with address and contact number
  - (c) Value of work completed/allotted
  - (d) Date of allotment
  - (e) Date of completion

**Note : Attach relevant work allotment order and completion certificate.**

6. For any clarifications, contact Ar. LR Gupta, Mob No 9814049662.

Signature of Contractor

Signature of Client

**1. Instruction to Tenderer**

1.01. The tenderer must submit his tender on the Tender form issued by Yadavindra Public School, Patiala.

1.02. Tender will be received upto 11.30 a.m, on 25 Aug 2022 in the School office. The tenders shall be opened at 1.00 pm on 25 Aug 2022 in the presence of tenderer(s) who may choose to be present at the time of the opening.

1.03. Tenders not accompanied by the earnest money will be summarily rejected.

1.04. The tenders shall remain valid for acceptance by the Client for a period of 90 days from the date of opening of the tenders.

1.05. Tender received after the time and date as stipulated in Para 1.02 above shall not be considered.

1.06. All materials will be arranged by the contractor except for Cement and Reinforcement Steel which shall be supplied by the School at the specified rate i.e. Cement (OPC) @ Rs. 360/- per bag and Steel (TMT) @ Rs. 8500/- per Qtl. Such material i.e. cement & steel will be issued from school store and no carriage to the site of work shall be paid to the contractor for any lead involved.

1.07. Working drawings are enclosed alongwith the tender document.

1.08. Rates quoted must be given clearly in figures and words separately. All cuttings and overwriting, if any, must be signed by the tenderer.

1.09. Temporary water and electricity connection shall be obtained at own cost and usage charges be paid by the successful tenderer. In case of failure of Contractor to deposit the usage charges, Yadavindra Public School, Patiala reserve the right to deposit the charges and deduct the same from the total billing of the Contractor.

1.10. Tenderer quoting item rate should quote rates against each item.

1.11. All the materials will be got approved from Director / Architect before use.

Signature of Contractor

Signature of Client

1.12. The work will be completed within the period mentioned in the notice tenders i.e. **18 months**. Otherwise penalty according to rules will be imposed.

1.13. All the material including T & P machinery except for cement and steel for work will be arranged by the contractor at his cost and no extra payment on account of carriage, brokerage or local body tax will be payable to the contractor.

1.14. If the opening date happens to be a holiday the tenders will be received & opened on the next working day at the same time.

1.15. The tender form and all entries therein must be filled by hand in English language in blue/blace ink. The rates should be quoted against each item in the bill of quantities both in figures and words and amounts in figures only in the specified columns. The total amount should be written both in figures and words. In the case of rate in figures, the word "Rs" should be written before the figure of rupees and word "P" after the decimal figures e.g. "Rs." 5.25 " P " In case of words the word "RUPEES" should precede and the word "PAISE" should be written at the end, unless the rate is in whole rupees and closely followed by the word "ONLY". The rates and amount must invariably be quoted upto two places of decimal. **Any items other than those mentioned in the bill of quantities which are Intended to be got executed shall be executed on the pattern of Punjab CSR 2020 pattern. If any item is not included in Punjab CSR, then the contractor will submit the rate analysis of that item and get it approved from the Engineer-in-charge and Architect before the execution.**

1.16. Rates quoted by the tenderer in figures and words should be accurately filled in so that there is no discrepancy in the two rates. In case the rates quoted in figures do not tally with rates quoted in words, the rates quoted in words shall be taken as correct.

1.17. Where the rates quoted by the tenderer in figures and in words tally but the amount are not worked out correctly, the rate quoted by the tenderer will be taken as correct not the amount and the corrected amount shall be considered.

1.17A. In the event of any fluctuations in market rates of the construction material, NO escalation is applicable during construction period till completion of project.

Signature of contractor

Signature of Client

1.18. In case a tenderer fails to mention any rate against any item, the same shall be executed at free of cost (zero) by the tender.

1.19. The tender must be accompanied by the following document:

(a) A duly authenticated copy of the documents defining the constitution of the company, partnership or proprietorship firm which should include the names of the persons authorized to enter into contract on its behalf.

(b) Specimens signatures of the persons authorized to sign on behalf of company, partnership or proprietorship firm.

1.20. Each of the tender documents should be signed by the tenderer(s) in person or person(s) authorized by the tenderer having acquainted himself with the general conditions of contract, specifications, special conditions etc. as laid down. Any tender with any of the documents not so signed is liable to be rejected.

1.21. The client does not bind itself to accept the lowest or any tender and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so.

1.22 The tenderer is not allowed to make any modifications in the terms of the Notice Inviting Tenders, Form of Tender, Articles of Agreement, Conditions of Contract, Safety Code, Specifications, Specials Conditions, Bill of Quantities or Drawings etc. All these parts of tender documents should not contain any conditions/deviations/suggestions/alternative specifications or designs and only rates/amounts should be filled as explained in para 1.15 above. The tender documents in duplicate, should be put in a cover superscripting, The name of the work and the name of the Tenderer. The cover should be sealed with red wax.

1.23. Intending tenderers shall pay the earnest money the sum mentioned in the Notice Inviting Tenders in the form prescribed there in. A tender which is not accompanied with the requisite amount of earnest money in the prescribed form shall be summarily rejected.

1.24. The earnest money paid by the successful tenderer shall be held by the Client and shall become a part of the security deposit

Signature of Contractor

Signature of Client

1.25. The earnest money paid by the unsuccessful tenderer(s) shall be returned to them after ninety days of opening of tenders or when the works is awarded to any agency, whichever is earlier.

1.26. No interest shall be paid on the earnest money.

1.27. The successful tenderer will submit Performance Bank Guarantee @ 5% of total contract value within seven days of getting work order from the Client and this Performance Bank Guarantee will be released after 30 days of actual completion of work duly certified by the Architect and Engineer – In - Charge.

1.28. Security deposit shall be retained as stipulated in Memorandum of the Tender. No interest shall be payable on the security deposit.

1.29. A schedule of probable quantities in respect of each item of work and specifications are enclosed. The quantities mentioned in the said schedule are liable to alteration by way of omissions, deductions or additions at the discretion of the Architect or Client and they do not in any way assure the tenderer that the said probable quantities are correct or that the work would strictly correspond thereto. Payments will be regulated on the actual quantities of work done at accepted rates.

1.30. The tenderer must obtain at his own expense all the information's which may be necessary for the purpose of making his offer in this tender before entering into a contract and must examine the drawings and must inspect the site of the work and acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto.

1.31. The rates quoted by the tenderer shall include all charges for clearing of site before commencement as well as after completion, water, electrical consumption, meters single/ double scaffolding as required, timbering, staging, fencing, boarding, plant and equipment, storage shed, lighting by night and watch and ward for day and night, protection of public and safety of adjacent Roads, Streets etc. and all other erections matters or things. The tenderer shall take down and remove any or all such scaffolding, staging, planking, timbering, strutting, shoring etc. as required or when ordered to do so and fully reinstate and make good all matters and things disturbed during

Signature of Contractor

Signature of Client

the execution of work and to the satisfaction of the Engineer-in charge/architects. **The rates quoted shall be deemed to be for the finished work to be measured at site, tenderers must include in their rates, any Central, State Government or local Authority taxes as applicable. The Client will perform duties in regard to the deduction of all applicable taxes at source as per applicable law(s).**

1.32. GST, if applicable shall be paid by the contractor.

1.33. The tenderer shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work.

1.34. The work shall be carried out under the directions and overall supervision of and subject to the approval in all respects by the Engineer in Charge/Architects.

## **2. INSURANCE**

2.01. The contractor shall obtain in the joint names of the Client and the Contractor a '**Contractor's All Risk Policy**' that covers:

- (a) Loss of or damage to the works, Plant and Materials.
- (b) Loss of or damage to Equipment.
- (c) Loss of or damage of property (except the Works, Plant, Materials and Equipment) in connection with the Contract; and
- (d) Personal injury or death to any personnel at site or injury to anyone due to work at site.

2.02. Policies and Certificate for insurance shall be delivered by the Contractor to the Engineer - In - Charge.

2.03. Alterations to the terms of insurance shall not be made without the approval of the Client.

## **3. Protection of Environment**

3.01. The contractor shall take all reasonable steps to protect environment on and off the site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operations. The contractor shall ensure the sprinkling of water over earth/ same stacks to avoid dust pollution.

Signature of Contractor

Signature of Client



3.02. The Contractor shall be responsible for the safety during all activities on the Site.

#### **4. Time Control**

**4.01. A detailed Construction schedule for the work shall be submitted by the Contractor to the Engineer In Charge within 10 days from the date of allotment, failing which, the allotment is liable to be cancelled. The Construction Schedule submitted should cover all aspects i.e. from mobilization to close outs. The approved construction schedule shall be the benchmark for reviewing the progress. The Schedule will be checked by Engineer In Charge/Project Manager and finally be approved by Technical Consultant before submitting the same to The Director.**

4.02.. During the currency of work, if required revised schedule will be prepared depending upon the variations/additions/alterations, etc. The progress of work shall be reviewed periodically by the Architect/Engineer in Charge.

4.03. The Construction Schedule shall be tracked on monthly basis and the slippages are recorder for effective track and control of the project. The Engineer in Charge's approval of the Program shall not alter the Contractor's obligations.

4.04. The vendor should possess all statutory permission / licenses/approvals including but not limited to a valid Provident Fund, ESI Service Tax, Sales Tax, GST/ and PAN Registration No. and submit the same to Yadavindra Public School, Patiala, along with submission of tender documents.

#### **5. Workman's Compensation Policy :**

**The Contractor shall procure the Workmen Compensation Policy for the manpower deployed and keep the Client indemnified against all failures/mishaps during the entire tenure of the project.** Such Policy must cover Contractor's liability under Workmen's Compensation Act 1923, Minimum Wages Act, 1948, Contract Labour (Regulation and Abolition) Act 1970 and other relevant Acts listed elsewhere to cover the Contractors liability under the applicable labour laws. This shall be for the period up to Final Completion of the Work. The Contractor's liability under this policy shall also include the Sub-contractors liability under the applicable labour laws.

Signature of Contractor

Signature of Client

## **6. Contractor store, site offices and other facilities**

The Contractor shall at his own cost provide for the following:

- (a) A temporary/leak proof store shall be constructed by the Contractor at a mutually agreeable space within the premises.
- (b) A cement godown as per nodal specifications for storage of minimum 500 bags shall be constructed by the Contractor. The Cement store shall be accessible to checks by the Client through its representatives at all points in time during the entire tenure of the project.
- (c) The Contractor shall, as per the details provided shall provide and erect a Signage board at the project site duly indicating- the Name of the Project, Start and Completion dates, Value of the Works, Name of Architect, Name of Structural Consultant and the Client.
- (d) For the projects requiring on-site testing facility, the Contractor shall also set up laboratory facility and install all the necessary testing equipment, such as IS Sieves, Oven, UTM machine, Silt Jars with valid calibrations. In addition to the test conducted at site, a third party test may be got conducted at government/statutorily approved/accredited laboratories to ensure fair recording of results and information at the cost of the Contractor.

- 6A. **Concreting.** For concreting of foundation & walls etc. the contractor shall set up a mini concrete mixing plant for quality of concrete mix grade.

## **7. Site Office and other facilities**

The Contractor at its own cost shall provide Site office for the tenure of the Project for the exclusive use of Engineer-in-Charge and his staff, as per the layout and arrangements provided by Engineer-in-Charge.

## **8. Safety Equipment**

The Contractor shall provide all the personal protective equipment like safety helmets, safety boots/shoes, protective clothing, etc., at its own cost to the Client, Client Representatives, Engineer-in-Charge, Architect & their team within three days from the execution of the Letter Intent of the Tender.

## **9. Safety Codes**

9.01. In respect of all labour, directly or indirectly employed on the Project for the performance and execution of the Contractor's Work under the Contract, the Contractor shall at its own expense arrange for all the safety provisions as listed in (i) safety codes of C.P.W.D. and Bureau of Indian

Signature of Contractor

Signature of Client

Standards, (ii) The Electricity Act, (iii) The Mines Act, and Regulations, Rules and Orders made there under and such other Acts (Central or State) as applicable and shall hold the client harmless in these regards at all points in time.

9.02. All Precautions as stated in the safety clause are the minimum necessary and shall not preclude the Contractor taking additional safety precautions as may be warranted for the particular type of work or situations. **Also, mere observance of these precaution shall not absolve the Contractor of its liability in case of loss or damage to property or injury to any person including but not limited to the Contractor's labour at site, the Client, Architect's, Client Representative's and Engineer-in-charge's representatives or any member of the public or resulting in the damage or death of any of these.** Protective gear such as safety helmets, boots, belts etc. shall be provided by the Contractor at its own cost to all its man-power at the Site. The Contractor shall impose such requirements on all Sub-Contractors and Vendors also. It shall be the responsibility of the Contractor to ensure that such protective gear is worn at all times by all personnel working at the Site during the term of the Project. The Client and Engineer-in-Charge/ Client Representative shall each have the right to stop any person not wearing such protective gear from working on the Site. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Client shall be entitled to do so and recover the costs thereof from the Contractor. The decision of the Client Representative in this regard shall be final and binding on the Contractor.

#### 10. LABOUR REGULATIONS:

**10.01. Regulations:** the Contractor shall be wholly and solely responsible for full compliance of the provisions under all the applicable labour laws and/or regulations such as Payment of Wages Act 1948, the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996, Employees Liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, the Maternity Benefit Act 1961, the Employees Provident Funds and Miscellaneous Provisions Act, 1952, the Employees State Insurance Act, 1948 the Contract Labour (Regulation and Abolition) Act 1970 and the Factories Act 1948 or any modifications thereof any other law relating thereto and rules there under introduced from time to time. The Contractor shall assume liability and shall indemnify the Client from every expense, liability or payment by reason of the application of any labour law, act, rules or regulations existing or to be introduces at a future date during the term of the Contract. Insurance cover towards the above shall be effected by the Contractor as called **vide**

Signature of Contractor

Signature of Client

**General Conditions No. 02.** In general, in respect of all labour directly or indirectly employed in the Work for the performance of Contractor's part of the Contract, the Contractor shall comply with all the rules framed by the Government authorities concerned from time to time for protection of the health and welfare of the workers. The Contractor shall obtain a valid license under the Contract Labour (R & A) Act 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971 and under any other applicable laws/rules before the commencement of the Work and continue to have a valid license until the completion of the Project.

10.02. The contractor shall submit proofs of compliance to all statutory laws as applicable to the Engineer-in-Charge as and when asked for.

**11. Child Labour:**

The Contractor shall not employ any labour less than 18 years of age on the job. In female labour is engaged, the Contractor shall make necessary provisions at its own expense for safeguarding and care of their children and keeping them clear of the Site. No children shall be permitted on the Site.

**12. Payment of wages:**

The Contractor shall be responsible for the payment of wages to the labour employed by him either directly or through Sub- Contractors, wages not less than minimum wages as defined in the relevant local labour regulations or as per the provisions of Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour Regulation and Abolition of Central Rules 1971, wherever applicable. The contractor shall so abide by the provisions of the Payment of Wages Act, the Minimum Wages Act and other labour laws and regulations applicable to the labour engaged in the Work, as laid down by the concerned local authorities. The Contractor shall, within, 7 days of issuance of Letter of Intent, furnish a copy of the current minimum wages applicable to the workmen engaged on the Project, as circulated notified by the State for all trades in its work.

I/We hereby declare that I/We have read and understood the above instructions for the guidance of tenderer.

Dated:

Signature of Tenderer

Signature of Client

Witness

FORM TENDER

The Director  
Yadavindra Public School,  
Patiala

Dear Sir,

Having duly examined the tender documents including the drawings, specifications designs. Schedule of quantities relating to the works specified in the underwritten memorandum and having visited the site of the said work and having acquired all the requisite information relating thereto as affecting this tender, I/We hereby offer to execute the work specified in the underwritten memorandum within the time specified therein at the rates specified in the bill of quantities and in accordance, in all respects, with the specifications designs, and instructions in writing of the architect and Client as referred to in the notice inviting tenders, general instructions to tenderers, articles of agreements, specifications, special conditions, the schedule of quantities and conditions of contract besides all legal compliances.

Signature of the Contractor

Signature of Client

**MEMORANDUM**

1	Name of Work	Construction of 50m Swimming pool Civil, Electrical, Plumbing Works at Yadavindra Public School, Patiala
2	Earnest Money	Rs 3.0 Lac
3	Performance Bank Guarantee	5% of total contract value to be deposited within the seven days of allotment of work order from the Client and to be released after 30 days from the completion of work duly certified by the Architect/ Engineer In charge.
4	Security deposit	5% of each Bill
5	Percentage of security deposit to be deducted From running and final bills	The earnest money shall be converted into the security deposit to be deducted from running bill & final bill and such recoveries from running bill and final bill shall be made so that total security deposited Including the earnest money shall amount to the percentage set out in (4) above of the total work done. 50% of the security will be returned after 6 months of actual completion of work and the balance amount will be returned after 12 months subject to rectification of snags/defects, if any, as certified by the Architect and Engineer in-charge
6	Time allowed for the work from 15 <sup>th</sup> day (mobilization period) after written order to Commence work.	18 Months + 15 days
7	Defect Liability Period	12 months from the date of completion i.e. after removing all the snags or final verification of contractor's final bill whichever is later.

Should this tender be accepted, in whole or part, I/We hereby agree to abide by and fulfil the terms and conditions annexed hereto in various parts of this tender document and/or in default thereof get forfeited and pay to Yadavindra Public School, Patiala, the sum of money mentioned in the said conditions. A sum of **Rs 3 Lac** in the shape of Bank draft is hereby forwarded as an earnest money drawn in favour of The Director, Yadavindra Public School, Patiala.

I/We agree (i) that should I/We fail to commence the work after it is awarded to me/us within 15 days after written order to commence the work, the Client shall without prejudice to any other right or remedy, be at liberty to forfeit the earnest money otherwise the said earnest money shall be retained by him towards security deposit, (ii) to execute all the works referred to in the Tender documents upon the terms and conditions contained therein.

Dated : the \_\_\_\_\_ day of \_\_\_\_\_

Signature of the Contractor

Signature of Client

Witness

Witness

Address

Address

**YADAVINDRA PUBLIC SCHOOL, PATIALA**

**Store Material**

1. Steel and cement will be issued / supplied by the school from school stores on the basis of 15 days requirement of the contractor at the following issue rates :-

(a) Cement @ Rs. 360/- per bag.

(b) Steel @ Rs. 8500/- per Qtl.

2. Contractor will make a request for the material in writing to the Engineer In-charge / Architect Temporary store to be arranged by the contractor for storing such materials at his cost.

**NOTE:**

1. The material that is cement & steel will be issued from school store and no carriage to the site of work shall be paid to the contractor for any lead involved.

Signature of the Contractor

Signature of Client

**SUMMARY OF TOTAL COST FOR CONSTRUCTION OF**

**50M SWIMMING POOL AT**

**YADAVINDRA PUBLIC SCHOOL, PATIALA**

- |    |                   |   |       |
|----|-------------------|---|-------|
| 1. | Civil work        | : |       |
| 2. | Public Healthwork | : |       |
| 3. | Electrical work   | : |       |
|    |                   |   | ----- |
|    | Total             |   |       |
|    |                   |   | ----- |

Amount in words :



**LIST OF APPROVED MAKES**

1. R.M.C.	Ambuja/A.C.C./ Ultra tech with OPC 43g
2. GREY CEMENT	Ambuja/A.C.C./ Ultra tech with OPC 43g
3. WHITE CEMENT	JK
4. STEEL BARS	TATA TISCON
5. ANTI TERMITE CHEMICAL	FOSROC CHEMICAL ( INDIA ) LTD.
6. WATER PROOFING MIX	K-10 Damp Flex (Parex group)
7. PLASTICISER	Sika
8. P.O.P. WORK	ADHAAR SHRI
9. GRID FALSE CEILING	ARMSTRONG
10. FLUSH DOORS	CENTURY or GREEN
11. CLEAR FLOAT GLASS	SAINT GOBAIN/ATUL
12. DOOR CLOSER	DORMA
13. HARDWARE	AKS / SS 304 GRADE
14. UPVC PIPES & FITTINGS	SUPREME/ PRINCE
15. CPVC PIPES & FITTINGS	SUPREME
16. SANITARY WARE	HINDWARE Italian range
17. CONCEALED CISTERN	JAQUAR
18. FASTNERS	HILTI
19. C.P. FITTINGS	JAQUAR
20. ELECTRICAL SWITCHES	HAVELS
21. ELECTRICAL WIRES	HAVELS , FINOLUX

22. TELEPHONE & T.V. CABLES	HAVELS , FINOLUX
23. P.V.C. CONDUITS	DIPLAST, POLY INDIA
24. M.C.B. & D.B.	HAVELS
25. E.L.C.B.	HAVELS
26. SPEAKERS	AHUJA , PHILLIPS
27. INDUSTRIAL SOCKETS	LEGRAND, L&T, G.E.
28. RISING MAINS	L & T, SCHNEIDER, G.E.
29. PANEL MANUFACTURER	
30. TEXTURE PAINT	SPECTRUM PAINTS PVT. LTD.
31. PLASTIC EMULSION	NEROLAC, ICI DULUX, ASIAN
32. VITRIFIED TILE	JOHNSON
33. ANTI-SKID TILE	JOHNSON ENDURA
34. Pool tile	JOHNSON

**BOQ FOR CONSTRUCTION OF SWIMMING POOL AT YPS PATIALA****(CIVIL,PUBLIC HEALTH AND ELECTRICAL WORKS)****PART- I :- CIVIL WORKS**

SR.  No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
EARTH WORK						
1	Earth Work in excavation in foundation, trenches, etc in all kind of soil where pick-jumper work is not involved hand not exceeding 2.0 metrs in depth including dressing of bottom and sides of trenches, stacking the excavated soil clear from the edge of the excavation and subsequent filling around masonry in 15cm layers with compaction including disposal of all surplus soil as directed with in lead of 30 metres	2736.11	Cum			
2	Extra for excavating in foundation, trenches, etc in all kind of soil from 2.0 to 3.00 metrs in depth including dressing of bottom and sides of excavated soil clear from the edge of the excavation.(Rate is over corresponding basic item for depth upto 1.5 metre)	744.06	Cum			
3	Extra for excavating in foundation, trenches, etc in all kind of soil from 3.0 to 4.50 metrs in depth including dressing of bottom and sides of excavated soil clear from the edge of the excavation..(Rate is over corresponding basic item for depth upto 1.5 metre)	441.62	Cum			
4	Filling available excavated earth (excluding rock) in trenches, plinth,sides of foundations etc in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1,5 m. Any surplus soil shall be disposed off in school premises free of cost.	980.00	Cum			
5	Supplying and filling in plinth with sand under floors, including watering,ramming,consolidating and dressing complete.	580.00	Cum			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
6	Providing and applying Anti Termite Treatment using pre constructional chemical treatment measures as per 6313-2001 (Part 2) & using Chemical containing chloropyrifos systemic insecticide diluted to manufacturer's specifications (i) in foundation pits, by treating the bottom & sides up to height of 300 mm by uniformly spraying solution @ 5 litre/ Sqm (ii) in refill earth on both sides of all built up area up walls @ 7.5 litre/ Running metre (width 300mm, depth 450mm ) (iii) before laying the floor by uniformly sprinkling the top surface of the consolidated earth with in the outer perimeter @ 5 litre solution per Sqm.	750.00	Sqm			
<b>PLAIN CEMENT CONCRETE</b>						
7	Plain Cement Concrete in foundations M15-(1:2:4) using 20 mm gauge stone aggregate.	190.00	Cum			
8	Plain Cement Concrete in foundations 1:4:8 with stone aggregate 40mm gauge	350.00	Cum			
<b>REINFORCED CEMENT CONCRETE, CENTRING &amp; SHUTTERING</b>						
9	Reinforced Cement Concrete M-30 mechanically mixed as per IS : 1791 and vibrated by needle vibrator but excluding reinforcement steel, centring and shuttering in foundation and plinth Level.	980.00	Cum			
10	Reinforced Cement Concrete M-30 mechanically mixed using concrete mixer as per IS : 1791 and vibrated by needle vibrator but excluding reinforcement steel, centring and shuttering in Super structure.	60.00	Cum			
11	Reinforced Cement Concrete M-25 mechanically mixed using concrete mixer as per IS : 1791 and vibrated by needle vibrator but excluding reinforcement steel, centring and shuttering in Super structure.	130.00	Cum			
12	Centering and shuttering for faces of concrete foundations and foundation beam & plinth beam ( vertical or battering)	350.00	Sqm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
13	Centering and shuttering for faces of walls, partitions, retaining walls and the like ( vertical or battering including attached pilasters buttresses etc.)	1400.00	Sqm			
14	Centering and shuttering including for Columns ( Square or rectangular or poly gonal in plain.	500.00	Sqm			
15	Centering and shuttering for sides and soffits of beams, beams,launching,girders, bressumers and lintels.	130.00	Sqm			
16	Centering and shuttering for flat surfaces such as Suspended floors, roofs, landings,chajjas,shelves etc.	980.00	Sqm			
17	Steel reinforcement with Thermo-Mechanically-Treated bars of grade Fe-500D for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete at all levels.	98000.00	Kg			
<b>WOOD WORK</b>						
18	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part-1) decprativetype, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	10.00	Sqm			
19	Providing & fixing in position with Teak Wood doors, windows 35mm thick Panelled, glazed or glazed and panelled shutters including hinges,screw and cords etc. complete	25.00	Sqm			
20	Providing and fixing in position Chowkats of Teak Wood confirming to ISI specification no. 1003 m kiln seasoned of doors and windows including iron hold fasts, corner straps,cleats, stops bolts for hold fasts etc,complete fixed in position (Section 60mm x 150 mm)					
A	Single Rebate	20.00	RM			
B	Double Rebate	20.00	Rm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
21A	Providing & Fixing glass panes (5.5mm thick) with nails and putty or wooden strip complete in all respect	20.00	Sqm			
21B	Providing & fixing bevelled glass 8mm thick	20.00	Sqm			
22	Providing and fixing teak wood moulding 50mm x 12mm to door windows chowkats with iron screws fixed in position complete as per design and shape required.	45.00	Rm			
23	Providing & fixing 6" stainless steel bow handles ISI marked on door & window frames complete in all respect as per the directions	60	Each			
24	Providing & fixing 1'-3" stainless steel handle ISI marked on door & window frames complete in all respect as per the directions for main door shutters	2	Each			
25	Providing & fixing 6" stainless steel tower bolts ISI marked on door & window frames complete in all respect as per the directions	12	Each			
26	Providing & fixing 8" stainless steel tower bolts ISI marked on door & window frames complete in all respect as per the directions	12	Each			
27	Providing & fixing 12" stainless steel tower bolt ISI marked on doors & windows complete in all respect as per the directions	20	Each			
28	Providing & fixing SS cleats & stopper of standard size & shape	20	Each			
29	Providing & fixing SS sliding bolt of approved size & design					
A	12" long	5	Each			
B	8" long	5	Each			
<b>BRICK WORK</b>						
30	Brick Work with first class burnt bricks laid in cement sand mortar 1:4 in foundation and plinth.	7.00	Cum			

SR.  No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
31	Brick Work with first class burnt bricks laid in cement sand mortar 1:6 in foundation and plinth.	110.00	Cum			
32	Brick Work with first class burnt bricks laid in cement sand mortar 1:6 in Super structure.	150.00	Cum			
33	Brick Work with first class burnt bricks laid in cement sand mortar 1:4 in foundation and plinth.	50.00	Sqm			
34	Brick Work with first class burnt bricks laid in cement sand mortar 1:4 in Super Structure.	150.00	Sqm			
<b>STRUCTURAL STEEL WORK</b>						
35	Structural steel work in single section, fixed with or without connecting plate,including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete.	2500.00	Kg			
36	Steel work welded in built up sections/ framed work, including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
A	In stringers,treads, landings etc. of stair cases, including use of chequered plate where ever required, all complete.	80.00	Kg			
B	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	600.00	Kg			
<b>FLOORING</b>						
37	Cement Concrete 40mm thick laid in cement concrete topping 1:2:4 using 20mm graded stone aggregate.	175.00	Sqm			
38	Providing and laying screed 40mm thick laid in cement concrete in 1:8:16 to be laid below the topping using mechanical mixer for mixing of material	1010.00	Sqm			
39	Providing and laying Vitrified anti skid floor tiles 405mm x 405mm size double charged premium quality with water absorption less than 0.08 % and confirming to IS:15622 of approved make in all colours and shades laid on 20mm thick cement mortar 1:4 for new flooring.	780.00	Sqm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
40	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix 0.70 kg of organic filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg). Including filling/grouting and finishing complete.	790.00	Sqm			
41	Providing and laying first class ceramic glazed wall tiles confirming to IS :15622 of size 600x300mm in dado on 12mm thick cement sand plaster 1:3 in base and joined with white cement slurry in joints including bevelled crners.	645.00	Sqm			
42	Kota Stone flooring 20mm to 30mm thick over 12.5mm thick base of cement mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	230.00	Sqm			
43	Kota Stone slabs 20mm thick in risers of steps,skirting,dado laid over 12.5mm thick base of cement mortar 1:3 laid and jointed with neat cement slurry mixed with pigment to match the shade of stone including rubbing and polishing.	11.00	Sqm			
44	Extra for pre finished nosing in treads of steps of Kota stone/sand stone slabs.	55.00	Rm			
45	Providing and fixing Glass mosaaic tiles on finished plain wall surface of size 200 mm x 200 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in-Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. or Johnsons plain tiles of internal swimming pool surfaces.	1320.00	Sqm			
46	Providing and laying Polished coloured Granite stone flooring in required design and pattern in linear as well as curvilinear portions of the building all complete with 18 mm thick stone slab over 20 mm thick base of cement mortar 1"4 laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade all complete.(i) Polished Granite Stone Slab Colour of Black,Cherry/Ruby red or equivalent.	180.00	Sqm			



SR.	Name of Work	Total Qty.	Unit	Rate		Amount
No.				(in figures)	(in words)	
WATER PROOFING TREATMENT						
47	Tile Terracing Consisting of tiles 22.86 cmx11.43 cm x 3.81 cm laid over 25mm mud plaster, 75 mm mud filling on another layer of 25 mm mud plaster including Two coats of biyumen laid hot @ 1.65 kg/ Sqm on top of RCC slab including grouting with cement sand mortar 1:3.	310.00	Sqm			
48	Cement sand flush Pointing on tile terracing with cement sand mortar 1:3.	310.00	Sqm			
49	Providing and fixing 110 mm dia SWR UPVC Rain water pipe with clamps.	141.00	Rm			
50	Providing and fixing on wall face unplasticised - PVC moulded fittings UPVC Plain Bend 110 mm	30	Each			
51	Top Khura 45 x 45 cm for Rain Water Pipe in 25 mm thick cement concrete 1:2:4 over 50mm thick cement concrete !:5:10	15	Each			
52	Bottom Khura on ground 120 x60 cm for Rain Water Pipe in 50 mm thick cement concrete 1:2:4 over 75mm thick cement concrete !:5:10	15	Each			
53	Cement Concrete 1:2:4 gola 7.5cm x7.5cm quardrant along junction of roof with parapet wall finished smooth, where specially specified.	90.00	Rm			
54	Providing and fixing in position PVC water stps confirming to IS: 12200 for Construction/expansion joints between two RCC members and fixed to reinforcement with binding wire before pouriung concrete etc.( Rubber weather bars 150mmx5mm)	1100.00	Rm			
55	Water Proofing coating of K-10 Damp flex of ( Parex Group) shall be applied as per manufactures specifications on RCC walls both sides inner & outer, Raft before & after & RCC drain etc for check any cracks & leakage.	2700.00	Sqm			
CEMENT SAND PLASTERING & FINISHINGS						
56	6 mm thick Cement Plastering wth cement sand mortar1:3 on Ceiling	590.00	Sqm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
57	12 mm Thick Cement Sand Plastering with cement sand mortar 1:4 on outer side with Water proofing	770.00	Sqm			
58	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	770.00	Sqm			
59	15 mm Thick Cement Sand Plastering with cement sand mortar 1:4 on inner side	325.00	Sqm			
60	Preparation of plastered or concrete surface for painting using Acrylic Wall Putty by applying two or more coats to get required finish including priming coat to make an even surface .	1710.00	Sqm			
61	Distempering with Acrylic washable distemper of approved brand and manufacture to give even shade:New work(two or more coats) over and including water thinnable priming coat with cement primer.	755.00	Sqm			
62	Finishing walls with Acrylic Smooth exterior paint of required shade :New work(two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer @2.20 kg/ 10 sqm.	955.00	Sqm			
63	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10sqm over an under coat of primer applied @ 0.75 ltr / 10 sqm of approved brand and manufaturers.	90.00	Sqm			
64	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more over coat applied @ 0.90 ltr/10sqm over an under coat of primer applied @ 0.80 ltr / 10 sqm of approved brand and manufaturers.	125.00	Sqm			

SR.  No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
65	Polishing on wood work with ready mixed wax polish of approved brand and manufacture on new wood work including surface preparation complete in all respects	80.00	Sqm			
<b>ALUMINIUM WORK AND GLAZING</b>						
66	Providing and fixing aluminium work for doors, windows, ventilators and partition with extruded built up standard tubular sections/ appropriate Z section and other sections of approved make conforming to IS: 733 and IS:1285,fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing / paneling,C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-Charge (Glazing, paneling and dash fasteners to be paid for Separately) for fixed position					
A	Fixed portion and chowkaths	250.00	Kg			
B	For shutters of doors, windows & ventilators including hinges/ pivots etc.	220	Kg			
67	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron	470.00	Kg			
68	Providing and fixing glazing 5mm thick in aluminium door, window, ventilator shutters and partitions etc,with EPDM rubber/neoprene gasket etc.complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):	100	Sqm			
68A	Providing & fixing 6mm thick decklite board	60	Sqm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
69	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc.complete With stainless steel cover plate minimum 1.25 mm thickness	4	Nos.			
70	Providing and fixing rigid PVC grating 300mm wide for drain	150	RM			
71	Providing and fixing false ceiling of all height 600mmx600mmx0.5mm metal ceiling perforated tiles without Fleece Powder coated of 60 to 70 microne type OREO GI laid in grid system. The frame work comprise of made of GI 120 GSM coating with minimum 0.3mm thickness main runner spaced at 1200mm centres securely fixed to the structural soffit by approved hangers at 1200mm maximum centres. Hangersa (GI wire of 4mm dia) to be fixed buapproved roof plug, level adjusters and screw etc. The last hanger at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees (with double stitching) to be interlocked between main runners at 600mm centres to form 1200x600mm modules. Cut across tees longer than 600mm to be supported independently. 600x600mm modules to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200mm cross tees. Perimeter trim to be wall angle secured to walls at 450mm maximum centres. Well height of Cross toe 24mmx26mmx32mm complete in all respects as per specification.	200	Sqm			
72	Stylam Fibre Board Partition/Cubicles 12mm Thick with Doors & necessary fitting as per darawing & design	75.00	Sqm			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
73	Providing precast cement concrete Jali 1:2:4, 50mm thick (1 cement: 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits	100.00	Sqm			
74	Providing and laying 60 mm thick factory made cement concrete interlocking Paving blocks of M-35 grade manufactured by block making machine equipped with steel mould clamped to a strong vibratory table with hydraulic pressure for compaction of concrete as per IRC SP 63 -2014 and of approved size and design / shape laid in Ordinary Grey Colour and pattern over and including 40 mm thick compacted bed of coarse sand, filling the joints with fine sand etc, all complete as per directions	200.00	Sqm			
	<b>SUB TOTAL</b>					

SR.	Name of Work	Total Qty.	Unit	Rate		Amount
No.				(in figures)	(in words)	
				PART-II :- PUBLIC HEALTH		
EARTH WORK						
1	Earth Work in excavation in trenches pipe lines straight or open cutting etc in all kind of soil where pick-jumper work is not involved and not exceeding 2.0 metres in depth including dressing of bottom and sides of trenches, stacking the excavated soil clear from the edge of the excavation and subsequent filling around masonry in 15cm layers with compaction including disposal of all surplus soil as directed with in lead of 30 metres	290.00	Cum			
2	Providing and fixing CP Brass bottle trap 32mm dia with 40 mm seal of approved make.	20.00	Each			
3	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.					
A	Size 600mmx450mm	6	Each			
B	Size 1500mmx600mm or any other size	2	Each			
4	Providing and fixing toilet paper holder :C.P brass	12	Each			
5	Providing and fixing in position Chinaware extended wall mounted E. W.C. type suite (size 66 x 46 x 77.5 cm ) with P trap or S trap of approved make (to the approval of the Engineer-in-charge) with or without 10 ltr. chinaware matching flushing cistern and seat cover complete in all respect of make: Hindware Enigma Star White.	12	Each			
6	Providing and fixing jet spray with 2'-6" long PVC pipe with PTMT Nut.	12	Each			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
7	Providing and fixing in position vitreous Chinaware white Indian make large flat back or angular lipped front urinal 375 x 390 x 590 mm of approved make (to the approval of the Engineer-in-charge) consisting of C.P. brass Urinal waste Coupling dome type 32mm outer length 75 mm , C.P. brass Urinal Spreader Ocular-Regular and C.P. brass tube connection 300 mm long complete. Make :Hindware Enigma Star White.	8	Each			
8	Extra for providing and fixing G.I. 32mm waste pipe for urinal including elbow, reducer etc complete in all respect	8	Each			
9	Vitreous white Chinaware Partition-Make:Hindware Star White Large partition size 75 x 16.5 x 36.5 cm	8	Each			
10	Providing and fixing C.P. brass Urinal Spreader Ocular-Regular complete with fittings for urinals complete	8	Each			
11	Providing and fixing PTMT urinal cock of approved quality and colour.15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	8	Each			
12	Providing and fixing in position vitreous chinaware white lavatory suites of approved chinaware white lavatory suites of approved make (to the approval of Engineer-in-charge) including Rack Bolt Screw Pair 115mm longwithout CP fittings complete in all respect.make : Garnet Star white. Size 630mm x 500mm (above counter oval Shape)	12	Each			
13	Providing and fixing in position C.P elbow action pillar tap of approved make	12	Each			
14	Providing and fixing in position 32 mm dia G.I waste pipe embedded in wall upto floor level including cost of fittings complete as required	20	Each			
15	Providing and fixing in position C.P. brass overhead shower 1 flow with shower arm with 15mm i/d inlet of approved make	12	Each			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
16	Providing and fixing in position towel rails / ring of approved make (to the approval of Engineer-in-charge ) fixed in with rawl plugs embedded in walls with brass screws complete in all respect.					
A	C.P. brass towel Rails size 15mm dia 610 mm long.	8	Each			
17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall Make : Supreme as per IS: 15778.					
A	CPVC SDR 11 pipe & fiittings- 15 mm nominal dia	75.00	Rm			
B	CPVC SDR 11 pipe & fiittings- 20 mm nominal dia	130.00	Rm			
C	CPVC SDR 11 pipe & fiittings- 25 mm nominal dia	110.00	Rm			
18	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having threaded fittings this includes thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings this includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.External Works.Make : Supreme as per IS: 15778.					
A	CPVC SDR 11 pipe & fiittings- 25 mm nominal dia	160.00	Rm			
B	CPVC SDR 11 pipe & fiittings- 32 mm nominal dia	70.00	Rm			
C	CPVC SDR 11 pipe & fiittings- 100 mm nominal dia	125.00	Rm			



SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
19	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet 150 mm diameter	12	Each			
20	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix i/c necessary excavation, foundation concrete 1:5:10 and inside plastering with cement mortar 1:3,mix 12 mm thick, finished with a floating coat of neat cement complete as per standard design With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	1	Each			
21	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank 1000 Ltr	2000	Ltr			
22	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make confirming to IS: 8931 15 mm nominal bore	20	Each			
23	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality confirming to IS: 8931 make : 15mm nominal bore	42	Each			
24	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms	24	Each			
25	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round Upvc pipes including bed concrete as per standard design					
A	110 mm diameter Upvc pipe	250.00	Rm			
B	160 mm diameter Upvc pipe	210.00	Rm			
C	200 mm diameter Upvc pipe	155.00	Rm			

SR.	Name of Work	Total Qty.	Unit	Rate		Amount
No.				(in figures)	(in words)	
26	Providing, laying in trenches to correct gradient and alignment and jointing of UPVC pipes having ISI specification IS:15328-2003 class-SN-8 marked class-SN-8 marked make Supreme, Finolex, good on them and laying the same in trenches to correct alignment and gradients, cutting and jointing, testing for water tightness and making good the leakages and defects including cost of specials (Specials and Solvent should be of same make as that of pipes) complete in all respects.					
A	110 mm diameter Upvc pipe	250.00	Rm			
B	160 mm diameter Upvc pipe	210.00	Rm			
C	200 mm diameter Upvc pipe	155.00	Rm			
27	Providing and laying cement concrete 1:5:10 graded stone aggregate 40 mm nominal size) up to haunches of Upvc pipes including bed concrete as per standard design.					
A	110 mm diameter Upvc pipe	250.00	Rm			
B	160 mm diameter Upvc pipe	210.00	Rm			
C	200 mm diameter Upvc pipe	155.00	Rm			
28	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design. 100x100 mm size P type With common burnt clay F.P.S. non modular) bricks of class designation 7.5	7.00	Each			

SR.	Name of Work	Total Qty.	Unit	Rate		Amount
No.				(in figures)	(in words)	
29	Constructing brick masonry manhole in cement mortar 1:5 RCC top slab 20 cm thick using M-20 mix by using mixer and vibrator, TMT Fe500 @ 80.00 kg/per cum, foundation concrete 1:4:8 mix inside plastering 12mm thk with cement mortar 1:3 finished with floating coat of neat cement and making 40 mm thick benching in cement concrete 1:2:4 finished with a floating coat of neat cement, orange coloured PVC steps including RCC cover with frame complete as per standard design complete Inside size 75x120 cm and 120 cm deep	20	Each			
30	Providing & fixing in position sensor battery operated urinal of approved make	4	Each			
	<b>SUB TOTAL</b>					

SR.	Name of Work	Total Qty.	Unit	Rate		Amount
No.				(in figures)	(in words)	
PART-III :- ELECTRICAL WORKS						
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	145	Per Point			
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copperconductor single core cable in surface / recessed medium class PVC conduit, 2 way piano type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	12	Per Point			
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class Pvc Conduit as required.					
A	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	200.00	Rm			
B	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	260.00	Rm			
C	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	220.00	Rm			
D	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	250.00	Rm			
E	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	60.00	Rm			
4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch boxincluding connections but excluding modular plate etc. as required.					
A	5/6 amps modular switch	200	Each			
B	2 way 5/6 amps switch	12	Each			
C	15/16 amp switch	15	Each			
D	3 pin 5/6 amp socket outlet	25	Each			
E	6 pin 15/16 amp socket outlet	15	Each			
F	Telephone socket outlet	3	Each			
G	Bell push	4	Each			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
5	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	22	Each			
6	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20	Each			
7	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required					
A	1 or 2 Module (75mmX75mm)	4	Each			
B	3 Module (100mmX75mm)	4	Each			
C	4 Module (125mmX75mm)	6	Each			
D	6 Module (200mmX75mm)	4	Each			
E	8 Module (125mmX125mm)	4	Each			
F	12 Module (200mmX150mm)	3	Each			
8	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
A	1 or 2 Module	8	Each			
B	3 Module	6	Each			
C	4 Module	7	Each			
D	6 Module	4	Each			
E	8 Module	4	Each			
F	12 Module	6	Each			
9	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	65	Each			
10	Supplying and fixing brass batten/ angle holder including connection etc. as required.	35	Each			

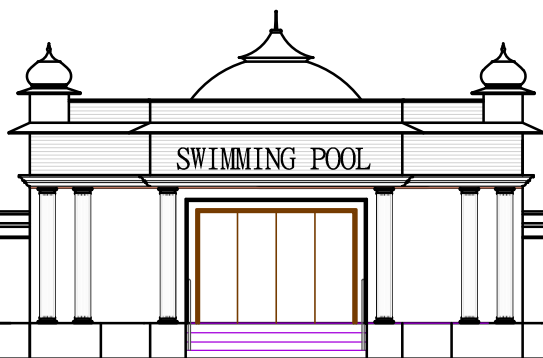
SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
11	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections.					
A	32 A TP&N	4	Each			
B	63 A TP&N	2	Each			
C	100 A TP&N	1	Each			
12	Providing and fixing following rating and breaking capacity MCCB with theromagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc.					
A	100 A 30 KA 4Pole	2	Each			
B	200 A 25 KA	1	Each			
13	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 240 volts, on surface/ recess, complete with tinned copper busbar, neutral bus bar,earthing bar,din bar interconnections, powder painted includingearthing etc.as required.(But without MMCB/ RCCB /Isolator)					
A	6 way, Double door	2	Each			
B	8 way, Double door	4	Each			
C	12 way, Double door	2	Each			
14	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts,TPN MCB distribution board of sheet steel, dust protected, duly powder painted,inclusive of 200 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer ) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 4 way (4 + 12), Double door	3	Each			

SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
15	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc.					
A	Single pole 6A to 32 A	25	Each			
B	Single pole and neutral -MCB SPN- 6A to 32 A	16	Each			
C	Triple pole and neutral	6	Each			
16	Supplying and fixing following rating, double pole, 240 volts,isolator in the existing MCB DB complete with connections, testing and commissioning etc. 63 A Double Pole Isolator	4	Each			
17	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth , metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in steel enclosure,on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc.	12	Each			
18	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.as required.	6	Per Set			
19	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories,and providing masonry enclosure with cover plate having locking arrangement and watering pipe 2.7 metre long etc. with charcoal/ coke and salt as required.	2	Per Set			
20	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc.	125.00	Rm			

SR.  No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
21	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	50.00	Rm			
22	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc.	40.00	Rm			
23	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	100.00	Rm			
24	Supply & erection of Ceiling fan 1400mm sweep	28.00	Each			
25	Supply & erection of heavy duty exhaust fan 300 mm, 900 RPM double ball bearing complete in all respects.	20.00	Each			
26	Supply & erection of loover shutter size 300mm sweep complete in all respects	20.00	Each			
27	Supply and fixing 1x22 watt IED tube rod 4 feet size energy efficient batten fitting with all accessories internally pre wired with and including connecting up with three core flexible copper conductor cable of size 1.0 sqmm complete all as specified and approved Make.	38.00	Each			
28	Supply and Erection of Split AC 1.5 Ton Inverter Technology complete with Voltage Stabilizer of required KVA.	8.00	Each			
29	1x150 watt HP LED flood light with pressure die cast aluminium housing complete with lamp and all accessories and MS Pole of 100 mm dia and 5 mtr height with arm and junction box all complete with painting etc.	5.00	Each			

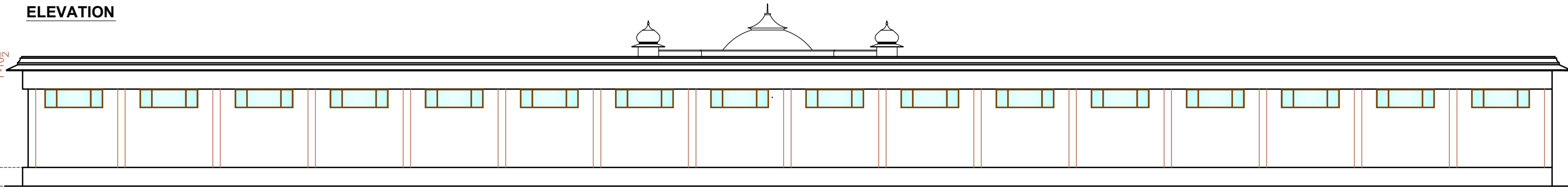


SR. No.	Name of Work	Total Qty.	Unit	Rate		Amount
				(in figures)	(in words)	
30	<p>Supply, Installion,commissioning and testing of outdoor LT panel board made out of CRCA sheet 3mm thick dust and vermin proof factory made CPRI approved with necessary angle iron 50x6mm support frame duly powder coated grouted in PCC complete all as s[pecified and directed with and including the following:-</p> <p><b>INCOMING:-</b></p> <p>(a) Aluminium bus bar of capacity 200 Amp for 3 phase with neutral-01 No.  (b) MCCB 415 V 63Amp rating, 4pole ,25 KA rupturing capacity (Ics=100% Icu) with over load short circuit and earth fault protection-01 No.  (c ) Digital voltmeter 0-500 volt square flush mounted with inbuilt selector switch-01 No.  (d) Digital ampere meter square flush mounted with inbuilt selector-01 No.  ( e ) Indicator lamps RYB LED type-01 Set of three.  (f) CT coil 200/5A- 03 N0s.</p> <p><b>OUT GOING:-</b></p> <p>( a ) MCB 32 A ,SPN,415 V (c Series), breaking capacity 10KA -06 No.</p> <p>NOTES:-1. All MCB shall be fitted on 8mm thick bakelite sheets.  2. The platform shall be of 450 mm height above and 450mm below ground level leaving minimum 100mm all around.Rate for PCC foundation for panel deemed be included in the unit quoted rate.  3. MCCB shall be connected with solid copper strip from bus bar</p>	1	Each			
31	Supply and laying XLPE insulated Aluminium conductor Armoured 4 core heavy duty 1100v grade specifications as per CSR					
A	70 SQ mm Aluminium 4 core	50	Rm			
B	95 SQ mm Aluminium 4 core	50	Rm			
C	120 SQ mm Aluminium 4 core	50	Rm			
	<b>SUB TOTAL</b>					
	<b>GRAND TOTAL</b>					

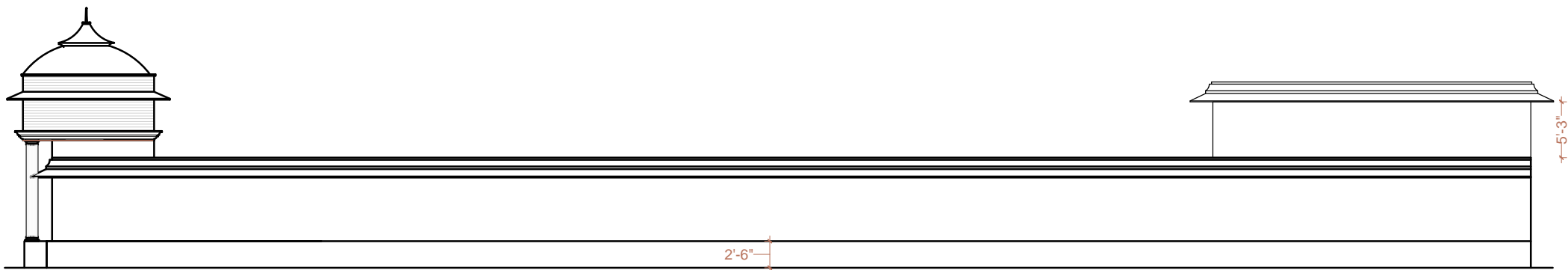


LVL.+8'-6"  
6'-0"  
LVL.+2'-6"  
2'-6" LVL.±0'-0"

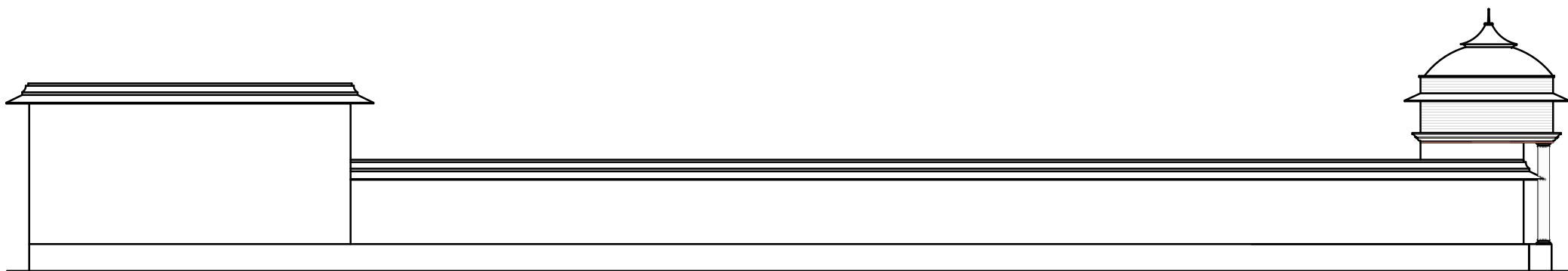
ELEVATION





REAR SIDE ELEVATION

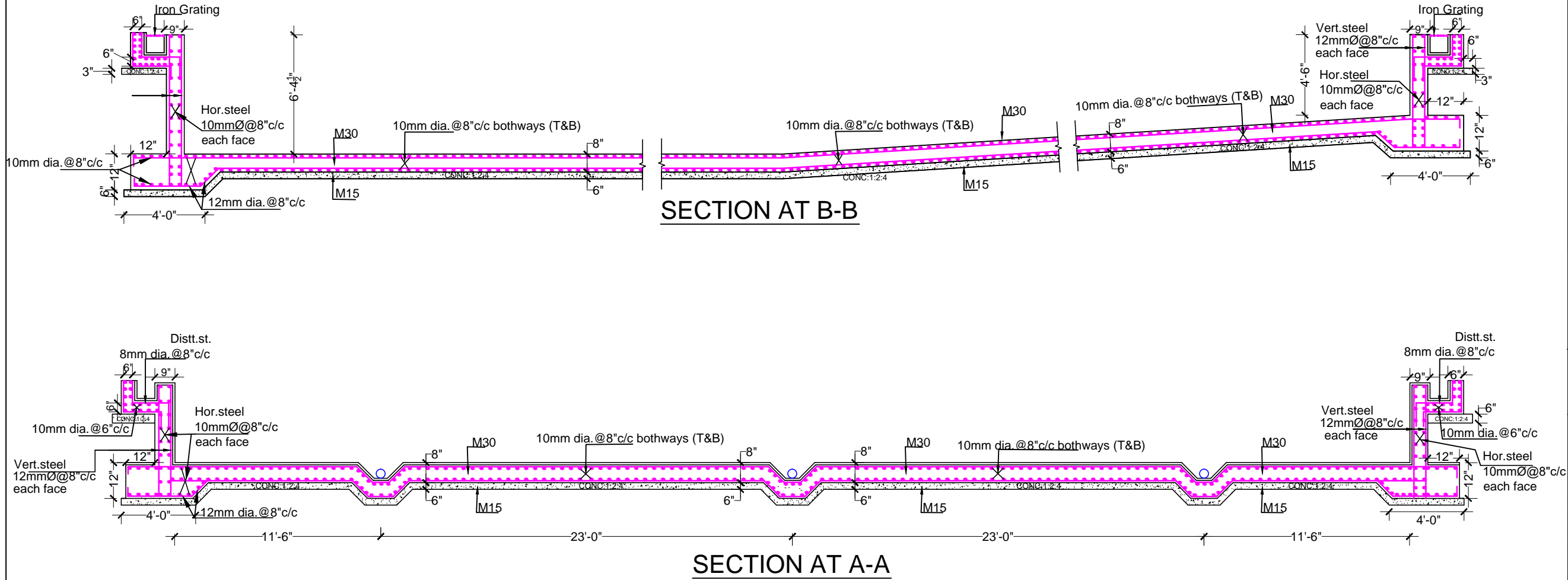


RIGHT SIDE ELEVATION





LEFT SIDE ELEVATION

CLIENT: <b>YADAVINDRA PUBLIC SCHOOL PATIALA</b>		
PROJECT TITLE: SWIMMING POOL& GYM BLOCK		
SHEET TITLE: Elevations		
CONSULTING ARCHITECTS:  <b>UNIQUE ARCHITECTS</b> S.C.O-51(FIRST FLOOR), LEELA BHAWAN COMPLEX, PATIALA. Tel : 0175 -2303447, Fax : 0175 - 2215535. E-mail : unique_arc@yahoo.co.in.		SCALE : 
DEALT BY:	DATE: 26-02-2022	DWG NO. : REV. NO. : R-01/16-03-2022



- NOTES:-
1. DIMENSIONS ARE TO BE READ NOT TO BE SCALED.
  2. CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
  3. Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe 500  
REFER TO IS: 1786,2008
  4. FOR CENTER LINE DIMENSIONS REFER ARCH.DRGS.
  5. NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
  6. LAP LENGTH / ANCHORAGE LENGTH:  
(i) 50d IN CASE OF FOUNDATION,BEAM & SLAB  
(ii)45d IN CASE OF COLUMNS  
WHERE 'd' IS DIA OF BARS.
  7. CLEAR COVER TO REINF.:  
(i) FOUNDATION = 60mm  
(BOTTOM),30mm(SIDE),25mm(TOP)  
(ii) COLUMN = 40mm  
(iii) BEAM = 30mm  
(i) SLAB = 25mm
  8. a) EXTRA BARS TO BE EXTENDED 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN STRIP EDGE LINE JOINING COLUMNS.  
b) BENDING OF CRANK BARS WHERE EVER REQUIRED SHALL BE AT 0.15L-0.2L FROM EDGE LINE OF SUPPORTING BEAMS.
  9. CONC. USED IS M30
  10. ALL DIMENSIONS ARE IN MILLIMETERS OTHERWISE SPECIFIED.
  11. CEMENT MORTAR USED IN:  
a) 230thk. Walls:- CM 1:6  
b) 115thk. Walls:- CM 1:4
  12. SBC OF SOIL IS 10.0t/m2

CONSULTING ARCHITECTS:		SCALE :
 <b>UNIQUE ARCHITECTS</b> S.C.O-51(FIRST FLOOR), LEELA BHAWAN COMPLEX, PATIALA. Tel : 0175 -2303447, Fax : 0175 - 2215535. E-mail : unique_arc@yahoo.co.in.		
DEALT BY:	DATE: 26-02-2022 REV. NO. : R-01/16-03-2022	
STRUCTURE CONSULTANTS :		
<b>SYAL &amp; ASSOCIATES</b> (Chartered Engineers,Architects & Project Management Consultants) <b>ATRIUM 204, PLOT NO. C-204, INDUSTRIAL AREA8-B,SECTOR 74, MOHALI. 160074(PB)</b> <b>PH 0172-4629234, 5091645</b>		

CLIENT:-

PROJECT:-

**YADVINDRA PUBLIC SCHOOL,  
PATIALA AT SWIMMING POOL**

REVISION :		

**S T R U C T U R E**

SECTION OF SWIMMING POOL

STRUCTURAL CONSULTANT : **Dr. I. C. Syal**

SIGNATURE & STAMP:

PROJECT No:	-----
DRAWN BY:	RAMESH
SCALE :	N.T.S
DATE :	07.04.2022
DRG. No :	S-101-A

NOTES:-

1. DIMENSIONS ARE TO BE READ NOT TO BE SCALED.
2. CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK.
3. Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe 500  
REFER TO IS: 1786,2008
4. FOR CENTER LINE DIMENSIONS REFER ARCH.DRG'S.
5. NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION.
6. LAP LENGTH / ANCHORAGE LENGTH:  
(i) 50d IN CASE OF FOUNDATION,BEAM & SLAB  
(ii)45d IN CASE OF COLUMNS  
WHERE 'd' IS DIA OF BARS.
7. CLEAR COVER TO REINF.:  
(i) FOUNDATION = 60mm  
(BOTTOM),30mm(SIDE),25mm(TOP)  
(ii) COLUMN = 40mm  
(iii) BEAM = 30mm  
(iv) SLAB = 25mm
8. a) EXTRA BARS TO BE EXTENDED 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN STRIP EDGE LINE JOINING COLUMNS.  
b) BENDING OF CRANK BARS WHERE EVER REQUIRED SHALL BE AT 0.15L-0.2L FROM EDGE LINE OF SUPPORTING BEAMS.
9. CONC. USED IS M25
10. ALL DIMENSIONS ARE IN MILLIMETERS OTHERWISE SPECIFIED.
11. CEMENT MORTAR USED IN:  
a) 230thk. Walls:- CM 1:6  
b) 115thk. Walls:- CM 1:4
12. SBC OF SOIL IS 10.0t/m2



**SYAL & ASSOCIATES**  
(Chartered Engineers,Architects & Project Management Consultants)  
ATRIUM 204, PLOT NO. C-204, INDUSTRIAL AREA-8-B,SECTOR 74, MOHALI. 160074(PB)  
PH 0172-4629234, 5091645

CLIENT:-

PROJECT:-

YADVINDRA PUBLIC SCHOOL,  
PATIALA AT SWIMMING POOL

REVISION:

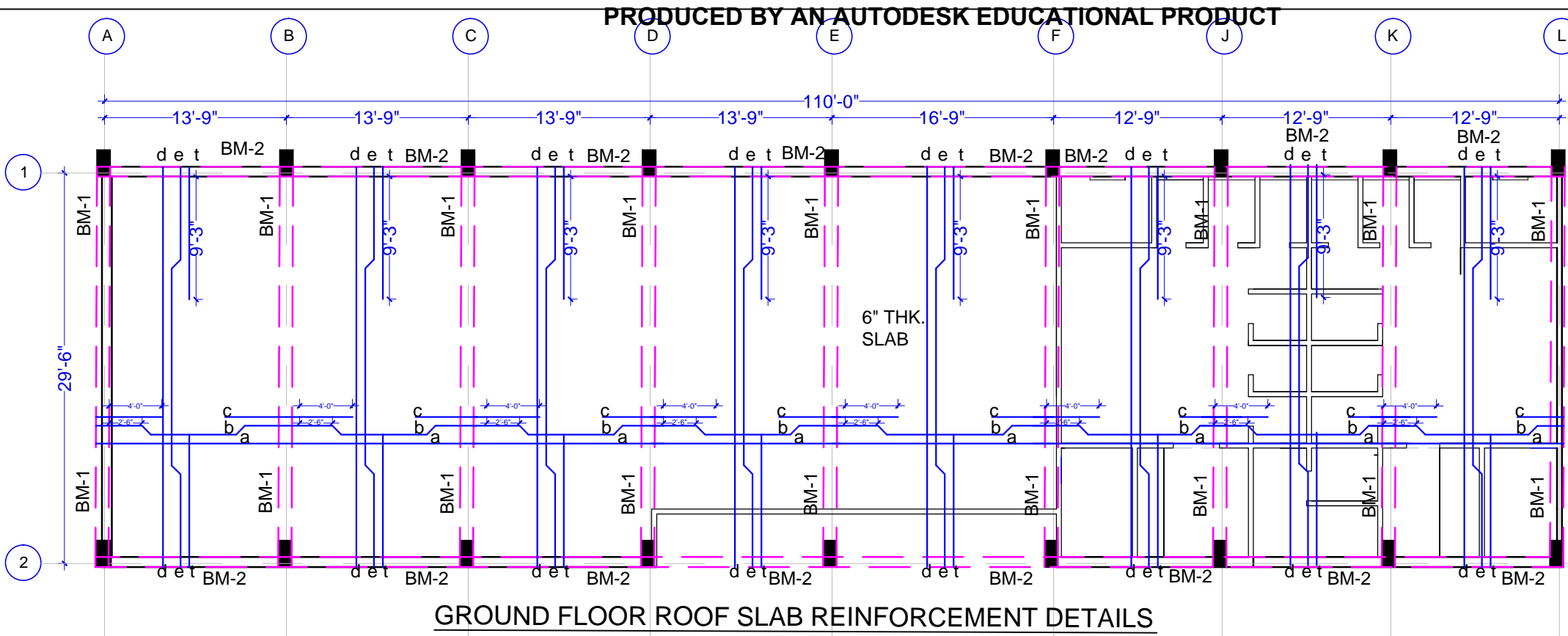
S T R U C T U R E

GROUND FLOOR ROOF SLAB  
AND BEAM REINFORCMENT  
DETAIL

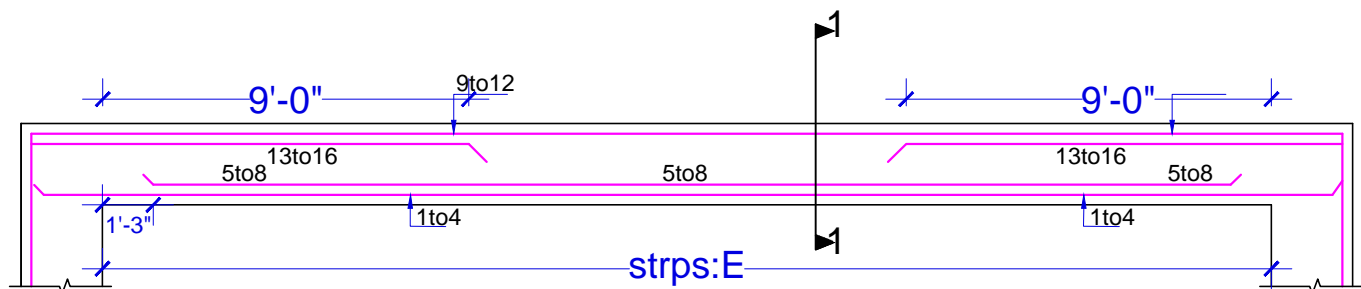
STRUCTURAL CONSULTANT : Dr. I. C. Syal

SIGNATURE & STAMP:

PROJECT No:	-----
DRAWN BY:	RAMESH
SCALE :	N.T.S
DATE :	7.04.2022
DRG. No :	S-101/01



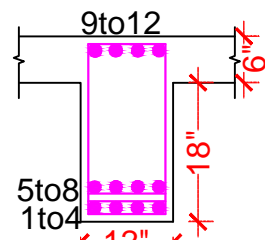
GROUND FLOOR ROOF SLAB REINFORCEMENT DETAILS



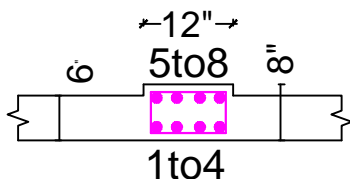
BM-1(12"x24")

Bars:1to16=25mmØ

Strps:10mdia.4L12NOs.@4"c/c+rest @8"c/c



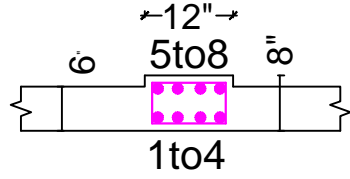
SECTION AT 1-1



STB-1 (12"x7 1/2"),

Bars:1to8=20mmdia.

Strps'10mmdia.2L@6"c/c

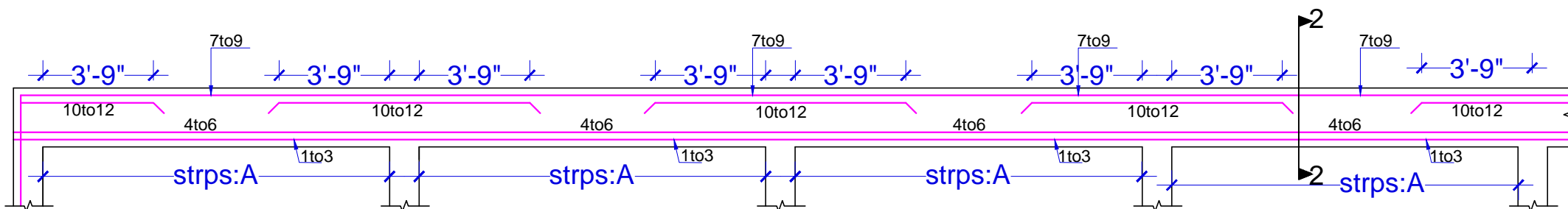


STB-2 (12"x7 1/2"),

Bars:1to8=20mmdia.

Strps'10mmdia.2L@6"c/c

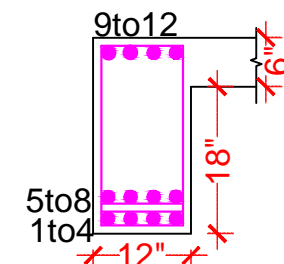
DETAIL OF SLAB	
SLAB THICKNESS = 6"thk. CONC. USED = M25.	
SCHEDULE OF BARS	
a = 10mm dia. @ 12"c/c b = 10mm dia. @ 12"c/c c = 12mm dia. @ 12"c/c d = 10mm dia. @ 16"c/c e = 10mm dia. @ 16"c/c f = 10mm dia. @ 16"c/c	(B) Net spacing (C) @ 6"c/c  (B) Net spacing (C) @ 8"c/c (T)
Holding Bars = 10mm dia. @ 8"c/c	
<b>NOTE:</b> B Bottom C Crank T Top	



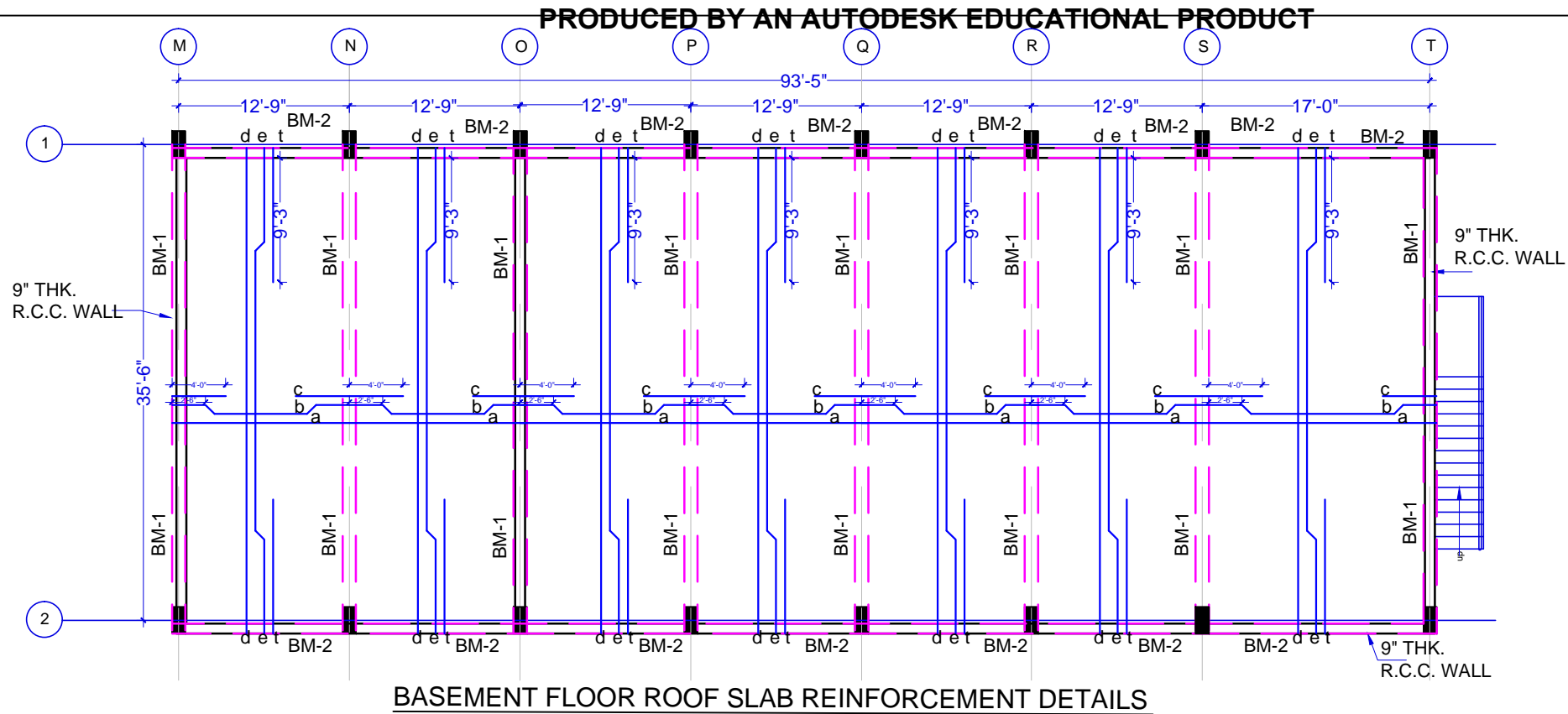
BM-2(9"x24")

Bars:1to12=16mmØ

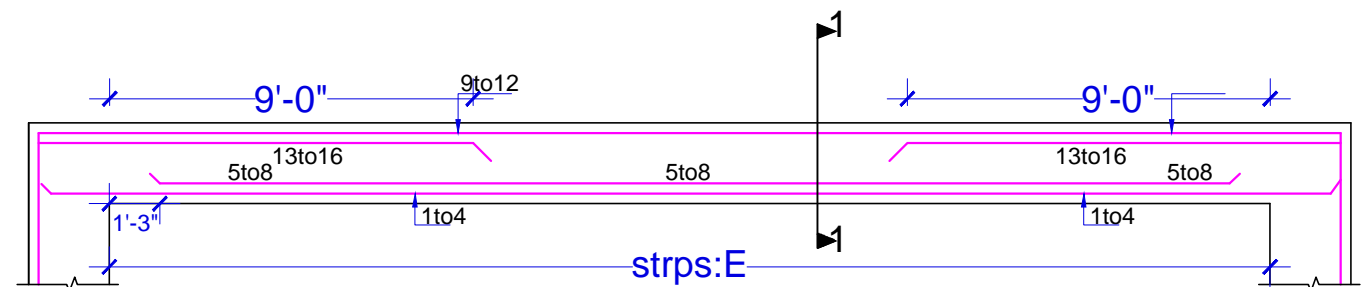
Strps:8mmdia.2L12NOs.@4"c/c+rest @8"c/c



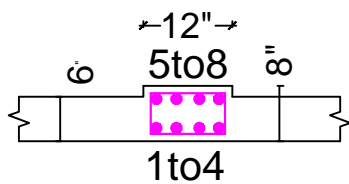
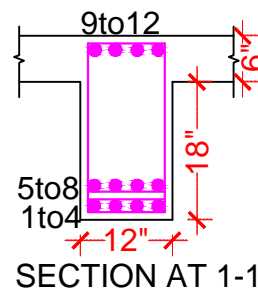
SECTION AT 2-2



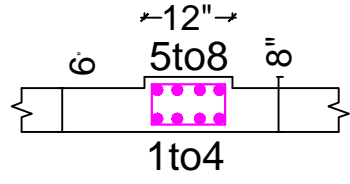
BASEMENT FLOOR ROOF SLAB REINFORCEMENT DETAILS



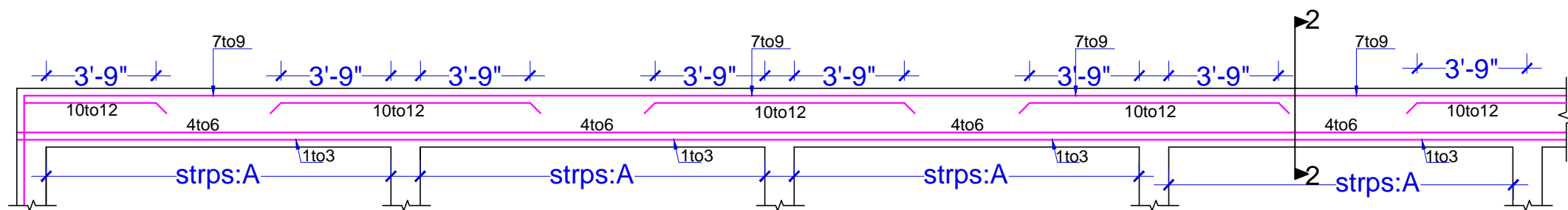
BM-1(12"x24")  
Bars:1to16=25mmØ  
Strps:10mdia.4L12NOs.@4"c/c+rest @8"c/c



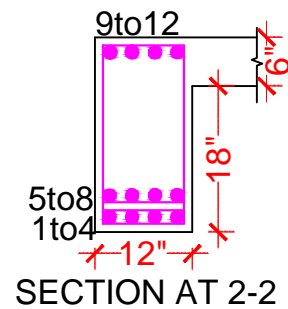
STB-1 (12"x7 $\frac{1}{2}$ " ),  
Bars:1to8=20mmdia.  
Strps'10mmdia.2L@6"c/c



STB-2 (12"x7 $\frac{1}{2}$ " ),  
Bars:1to8=20mmdia.  
Strps'10mmdia.2L@6"c/c



BM-2(9"x24")  
Bars:1to12=16mmØ  
Strps:8mmdia.2L12NOs.@4"c/c+rest @8"c/c



DETAIL OF SLAB	
SLAB THICKNESS = 6"thk. CONC. USED = M25.	
SCHEDULE OF BARS	
a = 10mm dia. @ 12"c/c b = 10mm dia. @ 12"c/c c = 12mm dia. @ 12"c/c d = 10mm dia. @ 16"c/c e = 10mm dia. @ 16"c/c f = 10mm dia. @ 16"c/c	(B) Net spacing (C) @ 6"c/c (B) Net spacing (C) @ 8"c/c (T)
Holding Bars = 10mm dia. @ 8"c/c	
<b>NOTE:</b> B Bottom C Crank T Top	

NOTES:-	
1. DIMENSIONS ARE TO BE READ NOT TO BE SCALED. 2. CONTRACTOR IS TO CHECK ALL DIMENSIONS BEFORE EXECUTION OF WORK. 3. Ø INDICATES THE DIA OF HYSD BARS OF GRADE Fe 500 REFER TO IS: 1786,2008 4. FOR CENTER LINE DIMENSIONS REFER ARCH.DRG'S. 5. NOT MORE THAN 50% BARS ARE TO BE LAPPED AT ONE LOCATION. 6. LAP LENGTH / ANCHORAGE LENGTH: (i) 50d IN CASE OF FOUNDATION,BEAM & SLAB (ii)45d IN CASE OF COLUMNS WHERE 'd' IS DIA OF BARS. 7. CLEAR COVER TO REINF.: (i) FOUNDATION = 60mm (BOTTOM),30mm(SIDE),25mm(TOP) (ii) COLUMN = 40mm (iii) BEAM = 30mm (iv) SLAB = 25mm 8. a) EXTRA BARS TO BE EXTENDED 0.3L ON EITHER SIDE OF SUPPORTING BEAM OR COLUMN STRIP EDGE LINE JOINING COLUMNS. b) BENDING OF CRANK BARS WHERE EVER REQUIRED SHALL BE AT 0.15L-0.2L FROM EDGE LINE OF SUPPORTING BEAMS. 9. CONC. USED IS M25 10. ALL DIMENSIONS ARE IN MILLIMETERS OTHERWISE SPECIFIED. 11. CEMENT MORTAR USED IN: a) 230thk. Walls:- CM 1:6 b) 115thk. Walls:- CM 1:4 12. SBC OF SOIL IS 10.0t/m2	
STRUCTURE CONSULTANTS :	
SYAL & ASSOCIATES (Chartered Engineers,Architects & Project Management Consultants) ATRIUM 204, PLOT NO. C-204, INDUSTRIAL AREA-8,B,SECTOR 74, MOHALLI. 160074(PB) PH 0172-4629234, 5091645	
CLIENT:-	
PROJECT:-	
YADVINDRA PUBLIC SCHOOL, PATIALA AT SWIMMING POOL	
REVISION :	
S T R U C T U R E	
BASEMENT FLOOR ROOF SLAB AND BEAM REINFORCEMENT DETAIL	
STRUCTURAL CONSULTANT : Dr. I. C. Syal	
SIGNATURE & STAMP:	
PROJECT No: -----	
DRAWN BY: RAMESH	
SCALE : N.T.S	
DATE : 7.04.2022	
DRG. No : S-101/02	





### OPTION-2