Brief Specifications of civil works for proposed Swimming pool at Yadavindra public school patiala

Part -1 Swimming pool (25 M x 50Mx 1.35 to 2m)

Part -2 Gym +Changing Block + Balancing Tank + Filtration plant

Part-1

Swimming pool

- Foundations of R.C.C. Swimming Pool consist of Raft foundation 200mm thk
 R.C.C. wall 300 thk with over flow gutter as per drawing. Concrete mix M-30 grade.
- All Excavated earth of pool area shall be disposed off in the school campus free of cost.
- P.C.C. 150 thk (1:4:8) over compacted earth Consist of concrete hand cut stones of 3" average size + Cement &Sand filing. After Excavation of foundation concrete bed of 150 thk M-15 (1:2:4).
- Waterproof coting of k10 damp flex of Pares Group "sika brand" shall be applied (as per manufacture instruction) on all inner or outer surfaces of RCC raft RCC walls and RCC gutter to check any cracks and in concrete including injection grouting.
- Deck area Grade slab 8" thk finished with Floor vitrified Tile anti-skid
 30cmx30cmx1cm max grip of Johnson brand.
- For drainage of Deck area 6" dia pipe with gully traps as shown in drawing
- Boundary Wall around deck area shall be brick walls with R.C.C. columns as per drawing.
- Overflow drain with pvc grating shall be provided, Grating shall be of pvc
- To achieve good quality of concrete grade, mini R.M.C. plant will be setup by the contractor
- All pipe work of swimming pool related to filtration plant shall be in thescope of contractor of filtration plant.

Part-2

Gym + Changing Block + Balancing Tank + Filtration plant

Basement Floor for filtration & balancing tank

- Excavation of balancing tank & Filtration plant shall be done as NBC code in view keeping Angle of repose All water proofing work should be a coting of k10 damp flex of pares group "sika brand" applied (as per manufacture instruction) on all inner or outer surface of RCC raft RCC walls and RCC gutter to check any cracks and in concrete pool area including injection grouting.
- Excavation Foundation of toilet block & Gym block shall be bricks & RCC foundation beam & Plinth beam
- Walls RCC walls with column grade slab RCC roof slab.
- Finishes of balancing water proofing.
- Finishes of Filtration Room with Cement plaster internal + Acrylics Paint.
- Floor kota stone over Grade Slab.
- Door/Window- Aluminum 14-gauge tubular section, Jindal Make.
- Staircase- RCC + M.S railing.
- S.S. Rungs 2'-0"wide @300c/c in balancing tank.
- Steel Reinforcement Work: The steel shall be (TATA Steel, Grade Fe500) placed as per structural working drawings provided by the Architect / Structural Consultant.
- All shuttering to be used for concrete work shall be of Steel Plates & all scaffolding work shall be of M.S. pipe system.
- Pump Foundation R.C.C foundation as per manufacture dwg.

Toilets & Changing Area

- All Light Partition in changing / toilet block shall be of stylum fiber board 20mm thk partitions a per drawing.
- External Finishing: The building shall be finished externally with cement plaster as per elevation then painting work as per specified.
- Aluminum door & window 14-gauge tubular section, polyester powder coating = 50
 micron of approved shade. Panel shall be stylumn fiber board 6mm thick

- Floor Tile 2'-0x 2'-0" anti skid matt finished and dado tile 2'-0"x 1'-0" of (Johnson make).
- W.C Hindware Italian range wall hang W.C. Code no. 20040(P-22.2)
- Counseled flushing system of jaquar make.
- Wash basins Hind ware Italian range over the Counter Code no.91096
- Urinals –Hindware code no.96004

Gym block

- Aluminum door & window 14-gauge tubular section polyester powder coating = 50 micron of approved shade. Panels shall be stylumn fiber board 6mm thk.
- Flooring 2'-0 x 2'-0" vitrified (matt finish double charged (Johnson make).

PLUMBING APPROVED MAKES

Piping System Supreme UPVC/ CPVC pipes for all fixtures and

sanitarywares. All pipes shall be painted with 2 coats of Synthetic Enalel Paint over a coat of

Primer

Mirror with 12mm thk Boiling Water Proof

Plywood [In Toilets]

Underground Drainage Pipes Supreme UPVC Pressure Pipes, Class 4 (PN)

8kgf/sqcm

Cold & Soft Water Line Supreme 'PP-R' SDR-6 (PN 20)

Water Supply Line Supreme 'CPVC' SDR-11 as per IS 15778

Vertical Drainage Pipe Supreme S.W.R. Drainage Pipe 'Type-B' as per

IS 13592 - 1992

Water Closet 545 X 345 X 360mm, Hindware Enigma Star

White

Wash Basin 580 X 430mm, Hindware Garnet Star White

Urinal 310 X 370 X 640mm, Hindware Enigma Star

White

Concealed Cistern Jaquar with Nova Flush Plate

C.P. Fitttings Jaquar make

External Sewarage Works As per Specifications of PWD and B&R

Overhead Tanks Multilayered Sintax or Supreme (2000 ltrs.)

along with connecting pipe

Rain Water Disposal UPVC Pipes (4 kg Pressure)

Chinaware Fittings Hindware

Sewarage Disposal Pipes UPVC Pipes (6 kg Pressure)

ELECTRICAL APPROVED MAKES

Electrical Switches Havels

M.C.B. & D.B.; E.L.C.B. Havels

Electrical Wires; Telephone

& TV Cables

Havels, Finolex

P.V.C. Conduits Diplast, Polyindia
Speakers Ahuja, Phillips
Industrial Sockets Legrand, L&T, GE

Connections/ Joints Water Tight and Sealed using M.S. Jointing

Compound

Armed Cable Havels

LIST OF APPROVED MAKES

1. R.M.C. Ambuja/A.C.C./Ultra tech 43g OPC

2. GREY CEMENT Ambuja/A.C.C./Ultra tech 43g OPC

3. WHITE CEMENT JK

4. STEEL BARS TATA

5. ANTI TERMITE CHEMICAL FOSROC CHEMICAL (INDIA) LTD.

6. WATER PROOFING MIX K10 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

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
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20. ELECTRICAL SWITCHES HAVEL	20.	ELECTRICAL:	SWITCHES	HAVELS
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21. ELECTRICAL WIRES	HAVELS, FINOLUX
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22. TELEPHONE & T.V. CABLES HAVE

23. P.V.C. CONDUITS	DIPLAST	POLYINDIA

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