

**Name of Work:- મુખ્યમંત્રી આદિમજૂથ સર્વાંગી ઉત્કર્ષ યોજના 2025-26.Construction of Science Lab Building
in Primary School at village Pathakvadi Ta. Dolvan Dist.Tapi.**

:: BILL OF QUANTITY. '::

Percentage Rate Tender

| It. No. | Description of Item (with brief Specification and reference to book of specifications) | Quantity | Unit | Rate In Figures | Amount |
|---------|---|----------|------|-----------------|----------|
| 1 | Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(C) Hard Murrum | 39.53 | Cum. | 262.52 | 10376.89 |
| 2 | Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (D) Soft rock not requiring Blasting | 25.92 | Cum. | 291.10 | 7545.31 |
| 3 | Filling available excavated earth (excluding rock in trenches plinth, slides of foundations etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering) | 32.72 | Cum. | 133.66 | 4373.89 |
| 4 | Filling in foundation and plinth with murrum or selected soil in layers of 20cm thickness including watering ramming and consolidating etc. complete | 50.74 | Cum. | 296.30 | 15033.04 |
| 5 | Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (more than 10 ton) | 2.92 | Cum. | 3786.47 | 11041.35 |
| 6 | Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete. (more than 10 ton) | 7.86 | Cum. | 4669.34 | 36701.01 |
| 7 | Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding cost of reinforcement for reinforced concrete work for Column upto plinth level. | 2.20 | Cum. | 8848.12 | 19506.12 |
| 8 | Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. (more than 10 ton) | 5.93 | Cum. | 6412.67 | 38027.13 |
| 9 | Brick work using common burnt clay building brick having crushing strength not less than 35 kg/sq. cm. in foundation and plinth in cement mortar 1:6 (1 Cement: 6 fine sand) (B) Convention | 1.99 | Cum. | 4121.55 | 8201.88 |

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|----|---|---------|------|----------|-----------|
| 10 | Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (more than 10 ton) | 9.32 | Cum. | 3786.47 | 35305.05 |
| 11 | Providng TMT bars reinforcement of FE 500/500D for R.C.C. work including bending binding and placing in position complete for all floor. | 5219.21 | kg | 77.29 | 403392.80 |
| 12 | Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. (more than 10 ton) | 3.04 | Cum. | 8811.19 | 26811.57 |
| 13 | Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. (more than 10 ton) | 0.38 | Cum. | 10176.75 | 3876.12 |
| 14 | Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. (more than 10 ton) | 5.94 | Cum. | 6824.57 | 40537.95 |
| 15 | Providing laying controlled cement concrete M 200 R.C.C lintel including finishing smooth with,curing etc. complete including the cost of formwork but excluding the cost of reinforcement | 0.32 | Cum. | 9510.72 | 3043.43 |
| 16 | Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies, Lintels, Beams, Girders and Cantilever upto floor two level. (more than 10 ton) | 11.13 | Cum. | 7055.08 | 78545.48 |
| 17 | Brick work using common burnt clay building brick having crushing strength not less than 35 kg/sq. cm. in super structure above plinth level up to floor two level in cement mortar 1:6 (1 Cement: 6 fine sand) (B) Convention for G.F | 17.43 | Cum. | 4403.40 | 76751.26 |
| 18 | Brick work using common burnt clay building brick having crushing strength not less than 35 kg/sq. cm. in super structure above plinth level up to floor two level in cement mortar 1:6 (1 Cement: 6 fine sand) (B) Convention for G.F | 7.18 | Cum. | 4444.59 | 31912.16 |

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| 19 | Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:3 (1- Cement : 3-coarse sand) with 2 Nos of 6mm Mild steel round bars after every three course embedded in Cement Mortar in foundation and plinth (B) Conventional | 19.41 | Sqmt | 734.30 | 14252.76 |
| 20 | Providing and laying Machine cut, Free edges, Machine polished Granite stone slab 18 mm thick Single Piece For doors and Windows Cill and Jambs Cladding as per design including Full moulded Round front edge and 1 cm nosing and laid on 20 mm thick cement mortar 1:6 (1 cement : 6 coarse sand) and jointed with gray cement slurry including rubbing and polishing etc. complete (As per R.A.) | 11.77 | Sqmt | 2506.93 | 29511.58 |
| 21 | Providing and fixing flush door both sides laminated and shutter fabricated from 35 mm thick solid core malemine faced three layered pre laminated flat pressed wood based exterior grade bonded BWP/BWR synthetic resin having stamped IS 12823 grade I type II including three coats of lacquer polishing to exposed wooden surfaces and Stainless steel decorative type designs fixtures / fastening 2Nos. Handles, 2Nos. Aldropes, towerbolt etc. as per architectural detailed drawing and as directed by engineer in charge.. | 2.52 | Sqmt | 4501.57 | 11343.96 |
| 22 | Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@ Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc | 9.83 | Sqmt | 1591.88 | 15645.00 |
| 23 | Providing & fixing M.S. grill / M.S. door of required pattern to wooden frames of windows/ brick masonry with necessary M.S. angle, M.S. pipe, M.S. flats and other structural steel at required spacing and frame alround square or round bars with round headed bolts and nuts or by screws (Plain Grills) Including primer coat of approved quality and two coats of oil paintings etc. complete as directed. | 296.28 | kg | 169.68 | 50272.79 |

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| 24 | Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) | 150.20 | Sqmt | 222.25 | 33382.62 |
| 25 | Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) | 32.93 | Sqmt | 249.64 | 8220.49 |
| 26 | Providing 10mm thick cement plaster in single coat on brick/conceret wall for interior plastering finished even and smooth (ii) cement mortar 1:3(1 cement:3 sand) and mala trovel finished etc. complete.GF | 106.79 | Sqmt | 194.21 | 20739.65 |
| 27 | 20 mm thick sand faced cement plaster with on wall upto all height above ground level consisting 12 mm thick backing coat of c.m. 1:3 (1 cement : 3 sand) and 8 mm thick finishing coat of cm 1:1 (1 cement : 1 sand) etc. complete.all height etc. complete. | 214.10 | Sqmt | 337.53 | 72263.49 |
| 28 | P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismentaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for light shade (more than 10 ton) | 87.32 | Sqmt | 1432.78 | 125112.21 |
| 29 | Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick | 158.30 | Sqmt | 1015.82 | 160800.83 |
| 30 | Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. as directed. | 84.56 | Sqmt | 765.98 | 64771.12 |

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| 31 | <p>(A) Providing and laying internal cement based water proofing treatment including preparation of surface as required for tretment of roofs, balconies, terrace,etc. consisting of following operations.</p> <p>(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS : 3645 over the R.C.C. slab including cleaning the surface before tretment.</p> <p>(b) Laying cement concrete using brocken bricks/brickbats 25 mm to 100 mm size with 50% of cement mortar 1:5 admixed with proper water proofing compound confirming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 admixed with proprietary water proofing compound confirming to IS : 2645 to required slope and treting simillary the adjoining walls up to 300 mm height including of junction of walls and slabs.</p> <p>(c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound confirming to IS : 2645.</p> <p>(d) Finishing the surface with 20 mm thick joinless cement mortar of mix 1:4 admixed with proprietary water proofing compound confirming to IS : 2645. and finally finishing the surface with neat cement slurry and making of 300 x 300 mm squares</p> | 84.56 | Sqmt | 898.50 | 75976.98 |
| 32 | Finishing wall with water proofing cement paint of on wall surface (Two coats) to give an approved brand manufacture and of required shape even shade after thoughtly brushing of loose powered materials. | 214.10 | Sqmt | 117.41 | 25136.89 |
| 33 | Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture with on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth along ceilings and sloping roofs. | 256.99 | Sqmt | 86.93 | 22340.38 |
| 34 | Wall painting of diffrent type of Picture, Alfabet chart, Number chart, Bird and Animal picture, Pyramid and Nandghar logo, Map of Taluka-Dist., Vehicle, Scale etc. with oil paint as per instruction by Engineer-In-Charge | 1.00 | Nos | 10100.00 | 10100.00 |
| 35 | Providing and Supplying Astronomical Astronomical Telescope 150X High-Powered,Portable with 70mm Aperture (HD Refractor, Tripod, Phone Adapter, and Wireless Remote) Ideal for Stargazing and Space Exploration inluding all Labour and Carriage Charges Complate as directed by Engineer. | 1.00 | Nos | 8662.97 | 8662.97 |
| 36 | Providing and Supplying Educational Insights Geosafari 3D Motorized Solar System Science Kit inluding all Labour and Carriage Charges Complate as directed by Engineer. | 1.00 | Nos | 7042.18 | 7042.18 |

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| 37 | Providing and Supplying Day and Night Globe Educational Working Model - Demonstrates Earth's Rotation, Shadows, and Light Source - Ideal for Classroom including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 2691.65 | 2691.65 |
| 38 | Providing and Supplying Four Seasons Apparatus Model Four Seasons Model Visualize The Earth's Movement Earth and Seasons Model Educational Science Kit including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 4341.42 | 4341.42 |
| 39 | Providing and Supplying Solar & Lunar Eclipse Model Kit – Earth, Sun & Moon Orbital Demonstrator including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 3188.57 | 3188.57 |
| 40 | Providing and Supplying Celestial Globe + Earth Globe with LED Light including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 4356.33 | 4356.33 |
| 41 | Providing and Supplying Constellation projector 4X Automatic Projector 4k Ultra HD Live TV Android Brightest 400 ISO Native 1080p, Netflix, Prime Precision Focus - Auto Keystone USB-HDMI ARC+CEC HDR+HLG WiFi 6-BT Egate including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 8050.10 | 8050.10 |
| 42 | Providing and Supplying indian Simple machines kit (lever, pulley, wheel & axle),inclined plane demonstration Newton's cradle,Momentum conservation track Friction experiment board Energy & Motion, Wind turbine working model Solar energy kit, Water wheel generator model, Energy conversion demonstration, Electricity, Electric circuit kits,Electromagnet experiment kit,Electric motor working model,Generator model,Optics,Prism &,spectrum kit, Mirrors and lenses kit, Laser optics demonstratio including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 74538.00 | 74538.00 |
| 43 | Providing and Supplying 3 Digital student microscopes, Magnifying lenses, Prepared slide sets, Human Body Models, Human skeleton model,Heart pumping model, Digestive system model, Brain model, Nature Learning, Seed germination kits, Mini terrarium ecosystem, Butterfly life cycle model, Pollination model, Students can:, Observe leaf cells, Study insects,Grow plantsincluding all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 57974.00 | 57974.00 |

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| 44 | Providing and Supplying Hawan Geometry Models, 3D geometric solids set, Pythagoras theorem working model, Circle theorem demonstration, Tangram puzzle sets, Mathematical Thinking, Sudoku boards, Logic puzzle kits, Rubik cube sets, Abacus learning kits, Concept Tools, Fraction tiles, Algebra tiles, Graph board, Probability experiment kit (Galton board) including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Nos | 66256.00 | 66256.00 |
| 45 | Providing and Supplying Arduino beginner kits, Solar robot kits, Line follower robot, Bluetooth robot car kit, Electronics breadboard kits, Tools, Multimeter, Soldering station, Basic electronics components, Students learn:, coding basics, electronics, engineering design including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 66256.00 | 66256.00 |
| 46 | Providing and Supplying Earth layers model, Volcano model, Water cycle working model, Rainfall cycle model, Soil profile model, Agriculture Learning, Drip irrigation model, Composting model, Solar water pump model, Hydroponics plant growing system, Weather Instruments, Rain gauge, Thermometer, Hygrometer, ,tudents learn:, climate, farming science, water conservation including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 49692.00 | 49692.00 |
| 47 | Providing and Supplying Plasma globe, Magnetic levitation demo, Tornado vortex generator, Giant kaleidoscope, Optical illusion panels, Floating magnet train Set including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 24846.00 | 24846.00 |
| 48 | Providing and Supplying 65 inch Smart TV or projector, Educational science videos, Interactive simulations, Document camera for experimentsl including all Labour and Carriage Charges Complete as directed by Engineer. | 1.00 | Set | 41410.00 | 41410.00 |
| 49 | Providing and Supplying Modular lab tables, Storage cabinets, Demonstration table, Equipment racks including all Labour and Carriage Charges Complete as directed by Engineer | 1.00 | Nos | 33128.00 | 33128.00 |
| | | | | | 2043286.410 |
| | | | | | 2043286.410 |

I / Weam / are willing to carryout the work at..... % above/ below percent (Should Be written in figures and words) of the estimated rate mentioned above Amount of my / our tender works out as under.

*Estimated amount put to tender

Deduct % below Rs.....

Net Rs.

In words

*(please strike out whichever is not applicable)

*Estimated amount put to tender

Add% Above

Total Rs.

In words

- 1 The Contractor shall exhibition board with detailed specification and details of works directed by the Engineer – In – Charge for which no extra payment shall bemade.
- 2 The labourcess will be deducted as per prevailing rules i.e. 1% of the work done.
- 3 GST and Income tax TDS will be deducted at a source while making payments of bills.
- 4 In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt G.R.: PRC-10/2017 Cement Consumption/16/C Date: 11/05/2017 as stated in S.O.R. therefore in R.C.C. items where the reisa change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

Signature of the contractor

Executive Engineer
Panchayat (R & B) Division
Tapi