

Organization	GLOBAL VISION CHARITABLE TRUST
Title of the Project	HEALTH AND SANITATION
Registered Address	G-004, SHRIPAL PARK, VIRAT NAGAR, NEAR PLTFRM NO.1 MAYEKARWADI, VIRAR WEST, PIN-401303 DIST-PALGHAR
Address for communication	SHOP NO-5/7 NXT TO PIRULANE, NR JABBARI HOTEL,MUMBAI, MAHARASHTRA-400009
Contact person's Name: Designation Mobile Number Email Id	Mr. JAVED AHMED ISLAM CHAUDHARY C E O 8828187225/9167845288 saudahmed72@yahoo.com
Contact person's Name: Designation Mobile Number Email Id	Miss. ANKITA & Mr. MOIN SHAIKH PROJECT EXECUTIVE 7770019517 /9082928714 ankita.agarwal025@gmail.com moin.shaikh21000@gmail.com
FCRA No& bank details with IFSC code PAN No.	AXIS BANK LTD VIRAR (MH), THANE A/c.No 923020023899869 IFSC Code – UTIB0000023 AAETG3975G
Project period (Number of year support is requested)	ONE YEAR
Proposed budget year-wise	2,28,00,000.00
Would you be interested if you get support for one year?	Yes

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1. ABOUT ORGANISATION

- 1. GLOBAL VISION CHARITABLE TRUST is an NGO registered under the Public Charitable Trust Act and Society Registration Act, 1860 in the year 2023
- 2. The main goal of GLOBAL VISION CHARITABLE TRUST is to develop in HEALTH SANITATION centre
- 3. Encouraging people to explore the possibilities of modern amenities and facilities in the fields of healthcare, sanitation, water management, education, and energy conservation form our core objective and we shall not rest until they are achieved.
- 4. The activities completed so far are as follows:- `
 - Education- It has done ISO certification of 10 schools and renovation of 20 schools thus benefitting about 4500 children.
 - Women Empowerment- Around 2100 women have been able to start earning on their own through the women empowerment activities of this NGO. These women are now generating income through backyard poultry, milk machines, water ATMs, tailoring etc.
 - Health- It has conducted 89 Health camps till date which has benefitted about 35000 people.
 - Sanitation- In the field of sanitation, TRUST has worked in 50 different villages constructing soakpits, toilets, kitchen gardens benefitting around 1500 people in the process.
 - GLOBAL VISION CHARITABLE TRUST is currently operating 1 self-sustained units of health sanitation centre.
 - Agriculture- Around 8000 farmers have been benefitted through its activities in the field of agriculture like rice cultivation, goat farming, organic farming training etc.
 - Afforestation- A total of about 40000 saplings have been planted by TRUST in its numerous tree plantation programmes

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2. BACKGROUND

As you must be aware, the location in consideration is majorly a tribal area and people residing there are from a financially poor background. Hence affording the common sanitation becomes difficult for males and females in those areas. Moreover, due to lack of awareness, a lot of ladies ,gents, children are prone to health risks like the following related to health diseases:

URINARY TRACT INFECTION

We, GLOBAL VISION CHARITABLE TRUST, can be instrumental in solving these issues to a huge extent with the experience we have had till date in this particular field of health and sanitation. With reference to the same, we would like to bring to your attention the work we have done in this field:

 For the last 1 year, we have been carrying out construction of toilets for betterment of people health

In these projects, the organization is trying to make sustainable project by successfully training the self-help groups for health sanitation ,general management of the unit etc. Today, each of the men & women is learning about self awareness.

Thus, we can assure you that with our experience and expertise we can bring about the following:

- 1. Quality reports
- 2. Generation of employment through the same
- 3. Spreading awareness about HEALTH SANITATION

In view of all the above points, we request you to grant us this project and give us an opportunity to prove ourselves worthy of the same.

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3. THEMATIC AREA

Healthsanitation

3.1 PROPOSAL

- 1. To start a new unit of Health Sanitation centre
- 2. To create women entrepreneurship opportunities through Personal Hygiene and Sanitation Programme
- 3. To facilitate access and increase usage of high quality Sanitation
- 4. To create adequate awareness about health

METHODOLOGY

The implementation and initiation will comprise of the following steps:

- 1. Agreement between the SHG group and owner of the concerned room for set-up and operation of healthSanitation unit.
- 2. Set-up of the new unit.
- 3. Inauguration and initiation of work.

The organisation structure will be a basic and simple one. It will consist of the following:

- 1 Co-ordinator- for activities like record maintenance, day to day operations and supervision, marketing etc.
- 1 Project Officer- Handling projects, maintaining client relations, branding and marketing etc.

A. TARGET GROUP: -

1. Common People

B. TEAM FOR THE PROJECT

- 1. Co-ordinator- Having experience of working in Sanitation project. Should be able to carry out need assessment, day to day monitoring of projects, reporting to the Project Officer.
- 2. Project Officer- Continuously monitor progress of work, prepare progress report of the projects and send them to the funding agency in prescribed format.

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C. MONITORING MECHANISM

Sr. No.	Particulars	Frequency
1	Reporting on mobile with Co-ordinator	Daily
2	Reports of Work Progress	Weekly
3	Site visits	Weekly
4	Reports to Agency	Monthly
5	Completion Report to Agency	On completion of Projects

4. OUTCOMES/RESULT EXPECTED -

- 1. Standardization of Product, Brand Building, Packaging and Quality Control.
- 2. Marketing to institutional buyers
- 3. Improvement in personal and community hygiene
- 4. Training and exposure to different areas of work will boost the confidence of the women and help in making the organisation self-reliant.
- 5. Eventually the unit can become an independent one and function without any assistance from a third party.

4.1 IMPACT ASSESSMENT

We plan to measure the impact through the following parameters:

- 1. Generation of employment- number of people employed for the new unit.
- 2. Income of the employed people- total salaries
- 3. Productivity and efficiency- quantity and quality of Sanitation
- 4. Brand building- surveys to measure awareness
- 5. Awareness about the prognosis
- 6. Boost in confidence of the men & women working there- observation

5. FINANCIAL IMPLICATIONS

Format given is indicative. As per nature of project, kindly use appropriate format. You may use separate excel file as annexure

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BOQ FOR CONSTRUCTION OF NEW WASHROOMS (TOILET BLOCK) MAHARASHTRA School

1	Construction of new washroom block in school including following scope and as per attached dreawing.	30	7,60,000.00	2,28,00,000.00
	From above amount TDS 1 % cut and payment as per work and time sla	b,		
	Work Duration: 2 month (Penalty applicable after 2 month)			
	Payment: After work start and payment will be release as per work complited (70% of work complited)			

Technical Specifications

- 1. RCC Work
- 2. Civil and Finishing Works
- 3. MEP Works

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1. RCC WORKS

- Excavation for all works and of materials required for filling shall be to the exact width, length and depth shown on the drawings or as directed by the Engineer. If excavation is carried out to greater width, length, depth than required, the Contractor shall make good, at his own cost, the extra depth by sound masonry or concrete filling and extra length or width filled in by well consolidated earth or if the Engineer thinks it necessary for the stability of the work, by masonry or concrete as he may direct.
- Excavation material required for filling shall be stacked or dumped where indicated by the Engineer. Excavated material not required for filling and any surplus material shall be removed and spread on the site anywhere within the premises and as directed by the Engineer or carted away from the site as directed by the Engineer. Dumping of this surplus material shall be in an orderly manner and according to the levels/grades as indicated by the Engineer. The cost of such removal and spreading shall be borne by the Contractor and held to be included in the Contract Rates.
- The Contractor shall, at the contract rates make provision for all shoring, pumping, dredging, bailing out or draining water whether subsoil or rain or other water and the excavation shall be kept free of water while the masonry work or concrete work is in progress and until the Engineer considers the work well set (Refer IS: 3764 Safety Code for Excavation Work). The sides of trenches shall be kept vertical and the bottom horizontal and shall be run level throughout or properly stepped as directed by the Engineer. The Contactor shall erect and maintain during progress of works temporary fences around dangerous excavations.

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- Excavation in ordinary soil means excavation in ordinary hard soil including stiff heavy clay, hard shale, or compact soil or any material, which can be removed by the ordinary application of spades, shovels, picks and pick axes.
- The foundation trenches shall be inspected and passed by the Engineer before concrete or masonry work is commenced and the Contractor shall hold an order in writing to this effect, otherwise the Contractor shall be liable to have this work removed for inspection.
- The earth for backfilling in foundation and plinth shall be got approved by the Engineer. In the foundation the backfilling shall be done in layers not more than 200mm thick and shall be thoroughly watered and consolidated by approved method. The rate for backfilling in foundation is deemed to have been included in the excavation rate.
- The backfilling in plinth and other places which are required for leveling shall be done in layers not more than 300 mm thick except minimum of top three layers shall be done in layers not more than 150 mm thick. Each layer shall be watered and thoroughly consolidated by power driven roller/pan vibrator/vibratory roller of approved capacity. The process shall be repeated till the required level is achieved. After the backfilling is completed, the surface shall be uniformly dressed and leveled.
- Metal Packing: Unless otherwise specified, stones for metal packing shall consist of crushed or broken stone. It shall be hard, durable and free from disintegrated particles, excessive dust and other objectionable matter.
- After laying, each layer shall be compacted thoroughly either by rollers or small vibratory roller, as specified or by other equivalent method approved by the Engineer. Slight sprinkling of water shall be done at the time of rolling.
- After rolling has been completed, screening shall be applied uniformly and gradually to fill the interstices and the surface shall be dry rolled. In no case shall the screenings be dumped in a heap on the rolled surfaces. Rolling shall be accompanied with brooming.

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 After application of screening and rolling, the surface shall be copiously sprinkled with water and rolled. If necessary, additional screenings applied to fill the voids if any. Rolling shall be continued until the coarse aggregates are well bonded. Care shall be taken that the base or subgrade does not get damaged due to addition of excessive quantities of water during the construction.

2 CONCRETE: PLAIN & REINFORCED

- Cement: The Cement used shall be any of the following with the prior approval of the Engineer:
 - a. Ordinary Portland Cement
 - b. Portland Pozzolana
- Use: Cement shall be Ordinary Portland Cement, Portland Pozzolana or Portland Blast Furnace cement in 50 kg bags, conforming to I. S. Specifications. A certified report to the conformance of the cement to I. S.

Specifications by the cement manufacturer's chemist shall be furnished to Consultant / Architect / Owner at no extra cost. Cement which has remained in bulk storage at the mill for more than 6 months, or which has remained in bags in dealer's storage for over 3 months, or which has been stored at project site for more than 3 months shall be re- tested before use. Cement shall also be rejected if it fails to conform to any of the requirements of these specifications.

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- Fine Aggregates (Sand): It shall be river or pit sand conforming to IS: 383, obtained from sources approved by the Engineer. If permitted by the Engineer, crushed stone sand produced from stones, suitable for concrete aggregates, The sand shall not contain silt more than a total of 2% by weight and shale, clay, silt and other structurally weak particles a total of 5%. Fine aggregate shall consist of natural or crushed sand and shall be clean, sharp, hard, strong, durable and shall be free from dust, vegetable substances, adherent coatings, clay, alkali, organic matter, mica, salt or other deleterious substances which can be injurious to the setting qualities strength/durability of concrete.
- If considered by the Engineer as necessary, the sand shall be washed in screw type mechanical washers in potable water to remove silt, clay and chlorides. This shall be done at least one day before using it in concrete.
- The washed sand shall be stored on a sloping concrete platform and in such a manner as to avoid contamination. Such sand washing, storing, etc. shall be at the Contractor's cost.
- If grading of fine aggregates can be improved by mixing two sands, the Engineer may at his discretion specify such mixing, and may permit the use of crushed sand as one of the two sands forming the mixture. The provision of two types of sand and their mixing in the specified proportions shall be at the Contractor's cost.
- Coarse Aggregates: Coarse aggregate for the Works shall be river gravel or crushed stone conforming to IS:383, obtained from sources approved by the Engineer.
- Aggregates Cover blocks shall be prepared out of 1:2 cement mortar and shall have strength same as that of structural concrete in the member. Use of plastic cover block of approved manufacturer may be permitted by Consultant / Architect.
- Grade of Concrete: The concrete is designated as follows: Concrete M 25/20.

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3. CONCRETE CUBE TEST

- For each grade a total of 6 cubes shall be made. Of these 6 cubes 3 cubes shall be tested at the age of 7 days and the remaining 3 cubes shall be tested at the age of 28 days. The making of the cubes, their curing, storing, transporting and testing shall be in accordance with Indian Standards IS: 516. The test shall be carried out in a laboratory approved by the Engineer. If the average strength of the concrete cubes falls below the required strength fresh preliminary mixes for that grade shall be made as before, until the trial mixes yield cubes of compressive strength at 28 days greater than the required average strength at that age.
- Acceptability criteria: Cube Tests: The strength requirement of any particular grade of concrete will be considered satisfactory if the 28 days' compressive strengths of individual sets (each set consists of 3 cubes) and of individual cubes satisfy the following requirements:
- CURING: Immediately after compaction, concrete shall be protected against harmful effects of weather, including rain, running water, shocks, vibration, traffic, rapid temperature changes, and drying out process. It shall be covered with wet sacking hessian or other similar absorbent material approved by the Consultant / Architect soon after the initial set and shall be kept continuously wet for a period of not less than 7 days from the date of placement. Masonry work over the foundation concrete may be started after 48 hours of its laying but the curing of concrete shall be continued for a minimum period of 7 days.
- Formwork for Exposed Concrete Surfaces: The facing formwork, unless indicated otherwise on drawings, or specifically approved by the Engineer in writing, shall generally be made with materials not less than the thickness mentioned below for different elements of the structure:
- Erection of Formwork: The following shall apply to all formwork to avoid delay and unnecessary rejection of the Contractor shall obtain the approval of the Engineer for the design of forms and the type of material used before fabricating the forms.

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 All shutter planks and plates shall be adequately backed to the satisfaction of the Engineer by a sufficient number and size of walers or framework to ensure rigidity during concreting. All shutters shall be adequately strutted, braced and propped to the satisfaction of the Engineer to prevent deflection under deadweight of concrete and superimposed live load of workmen, materials and plant, and to withstand vibration. No joints in props shall be allowed.

4 REINFORCEMENT

5 Steel

All reinforcement work shall be executed in conformity with the drawings supplied and instructions given by the Engineer and shall generally be carried out in accordance with the relevant Indian Standard Specifications (IS:2502).

1. Inspection & Testing:

Every bar shall be inspected before assembling on the works and any defective, brittle, excessively rusted or burnt bars shall be removed. Cracked ends of bars shall be cut out. Specimens sufficient for three Tensile Tests for each different size of bar for each consignment delivered, or for 10 tons of supply of that size, whichever is less shall be sampled and tested by the Contractor. Batches shall be rejected if the average results of each batch are not in accordance with the specifications.

A.Spacing, Supporting and Cleaning: All reinforcement shall be placed and maintained in the positions shown on the drawings.

B.The Contractor shall provide approved types of supports as specified on the drawings for maintaining the top bars of the slab in position during concreting. All cover blocks shall be of concrete (not sand cement mortar) and of the same strength as that of the surrounding concrete and properly compacted. They shall be circular in shape and not square.

C.Bars must be cleaned before concreting commences of all scale, rust or partially set concrete which may have been deposited there during placing of previous lift of concrete.

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The bars shall be cleaned with dry gunny bags if they are coated lightly with rust or other impurities. On no account shall the bars be oiled or painted nor shall mould oil used on the formwork be allowed to come in contact with the bars. Cement wash to bars shall not be permitted.

5 MASONARY AND ALLIED WORKS

GENERAL:

All masonry work shall be true to lines and levels as shown on drawings. All masonry shall be tightly built against structural members and bonded with dowels, inserts etc. as shown on drawings.

1. Mortar:

Mix for mortar shall be specified in the Schedule of Items. For cement sand mortar, cement and sand in requisite proportions shall be mixed dry in a mechanical mixer and then water added and mixed further. Minimum quantity of water shall be added to achieve working consistency. Surplus free from dirt maybe mixed with fresh mortar if permitted by the Engineer who may direct addition of additional cement without any extra payment. No mortar which has stood for more than half an hour shall be used.

2. Brick work:

A. Materials:

Bricks shall be first class of uniform size, shape and colour and must be well burnt so as to give a clear ringing sound when struck. They shall be clean, whole and free from flaws, cracks, stones or lumps of any kind, especially lime. They shall have sharp edges and angles and even surfaces and shall be round and hard to resist compression. They shall be from a source to be approved by the Engineer. No brick after immersion in water for 24 hours shall absorb water more than 15 percent of its weight. Where specifically agreed upon brick shall be of the best quality locally available.

1. Mortar:

Cement mortar for brick work and pointing shall generally be as specified herein, namely in proportion of one of cement with 5 of sand by volume, or as indicated otherwise. Mortar shall be prepared by mixing cement and sand in specified proportion in the dry. The mortar shall be used within half an hour of mixing. No hand mixing shall be permitted.

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2. Workmanship:

All bricks used shall be kept soaked in water at least 2 hours prior to use. The work shall be set out by the Contractor. No brick bats shall be used for the Work except where required to complete a standard bond.

All joints in brick work shall be uniformly laid. Each layer of brick work shall be laid pump and level and with correct break of joint. No mortar joint shall exceed 15mm in thickness.

The joints of the brick work to be plastered or pointed shall be properly raked out to a depth of 15mm. For brick work in foundation, joints shall be struck smooth while laying the brick work only.

The works shall be kept wet for at least 7 days after laying the last course.

Brick work shall not be raised more than 10 course a day unless otherwise approved by the Engineer.

Brick wall shall be uniformly raised all round and no part shall be raised more than 1 meter above another, at any time. The Contractor shall provide all necessary openings for doors, windows or such other services and shall embed all fittings and fixtures (to be separately paid for) at no extra cost. 115mm and 230mm brick walls shall be built fair faced on one side only. All other walls of greater thickness shall be built without exception with fair face to both sides.

For brick work of 115mm thickness c.m. 1:4 shall be used R.C.C, stiffners shall be provided for such brick work as directed below.

Brick work 115mm thk shall be provided with transoms and mullions when length or height of the wall exceeds 2M. Transoms shall be provided at lintel / door height. Spacing of mullions shall not exceed 1.5 m C/C. size of transoms & mullions shall be 120 x 80 with M15 grade of concrete and 10mm downsize aggregate. Transoms & mullions shall be reinforced 4 nos 6mm dia M.S. bars unless instructed otherwise. The decision of Engineer regarding locations of such transoms/mullion shall be final & binding to the contractor. The rate quoted for brickwork will include for providing concrete for such Transoms & Mullions. However, reinforcement shall be paid separately under relevant item.

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6 PLASTERING:

1. Cement Plaster:

Cement and fine screened sand shall be thoroughly mixed dry in proportion specified. Water shall then be added gradually and the mortar mixed thoroughly until it is homogeneous in appearance and uniform in colour and of the required consistency. No more mortar shall be prepared than can be used up in half an hour. The joints of the masonry shall be racked to a depth of 15mm. The surface to be plastered shall be thoroughly washed and

drenched with water and the plaster then applied, and worked evenly to the specified thickness by means of long straight edges.

The surface finish shall be as specified. Ordinary finish may be done with wooden floats or steel trowels as directed, in which case the surface is rubbed over until it is even and smooth.

1. External Sand face Plaster:

The surface to be plastered shall be cleaned of all dust and dirt and the surface thoroughly watered. The backing coat shall be 13mm thick C.M. (1:3) After during the coat sufficiently, the finishing coat which shall be of one part cement and 3 parts of sieved and properly graded washed and cleaned sand shall be applied so as to give a granular structure. The finishing coat shall be 7mm thick, uniformly applied and the surface finished with special Thapies (cork, rubber or sponge pads). The finishing coat shall be wetted and kept damp for a period of seven days, always allowing it to dry as slowly as possible.

1. Internal Plaster:

The surface to be plastered shall be cleaned of all dust and dirt and should be thoroughly watered. The joints of the masonry shall be thoroughly racked to a depth of 15mm. The surface of concrete works like ceilings, beams, slabs shall be hacked evenly to receive the plaster to be applied. Plaster shall be applied in single coat and worked evenly to the thickness of 8mm or 12mm as specified by means of long straight edges. All corners and angles shall be perfectly in plumb. All lines shall be true and straight and levels correctly maintained. Plaster applied to the ceilings shall be applied in single coat and finished to a thickness of 8mm.

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7 FLOORING:

- A. Preparation of Base Surface for Flooring Following procedure shall be followed:
- Sub grade concrete or RCC slab or side brick wall / or plastered surfaces on which tiles are to be laid shall be cleaned, wetted and mopped as specified for terrazzo tile flooring.
- Mortar and bedding: Cement mortar for bedding shall be prepared of mix 1:4 or as specified in the schedule of items, to a consistent paste and shall conform to the specification for materials, preparations etc. as specified under cement mortar. The amount of water added while preparing mortar shall be the minimum necessary to give sufficient plasticity for laying. Care shall be taken in preparation of the mortar to ensure that there are no hard lumps that would interfere with even bedding of the tiles. Before spreading the mortar bed the base shall be cleaned off all dirt, scum or laitance and loose materials and well wetted without forming any pools of water on the surface. The mortar of specified proportion and thickness shall then be evenly and smoothly spread over the base by use of screed battens to proper level or slope.
- Once the mix is prepared, no further water be added and the same shall be used within one hour of adding water. Apply on an average 20 mm thick bedding of mortar over an area of 1 sqm. at a time over surface of the area for laying tiles, in proper level and allowed to harden sufficiently to offer a fairly good cushion for the tiles to set.

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B. Laying of Tiles

As a general practice laying of tiles shall be commenced from the centre of the area and advanced towards the walls. Cut tiles, if any, shall be laid along wall with necessary border pattern as shown /directed by the Engineer-in- Charge. Tiling work shall be completed by pressing tiles firmly into place along the wall / floor. White cement slurry to the back of the tile to be applied to ensure proper and full bedding. The tiles shall be laid on the bedding mortar when it is still plastic but has become sufficiently stiff to offer a fairly firm cushion for the tiles. Tiles, which are fixed on the flooring adjoining the wall, shall be so arranged that the surface on the round edge tiles shall correspond to the skirting or dado. Press gently the tile with wooden mallet for even adherence at the back of the tile. The edges of the tiles shall be smeared with neat white cement slurry and fixed in this grout one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints shall be kept as close as possible and in straight line. Unless otherwise specified, joint-less tiling shall be done butting the tiles with each other. If joint is specified, the same shall not exceed 1.00 mm. in width. The joint shall be grouted with white / matching colour cement slurry. After fixing the tiles, finally in an even plane or slope, the flooring shall be covered with wet sand and allowed undisturbed for 14 days.

C. Fixing of Tiles for Dado & Skirting

The fixing of tiles on wall surfaces shall be done only after completing fixing of the tiles on the floor.

 The edges of the tiles shall be smeared with the adhesive and fixed on the wall one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly fixed in level with the adjoining tiles. There shall be no hollows on the back or in joints. Unless otherwise

specified, joint-less tiling shall be done butting the tiles with each other. If joint is specified, the same shall not exceed 1.00 mm. in width. The joint shall be grouted with approved adhesive. The joints shall be kept in straight line or as per the approved pattern.

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- While fixing tiles in dado / skirting work, care shall be taken to break the joints vertically. The top line shall be touched up neatly with the rest of the plaster above. If doors, windows or other openings are located within the dado area, the corners, sills, jambs etc. shall be provided with true right angles without any specials. The contractor will not be entitled to any extra claims on this account for cutting of tiles if required.
- The fixing shall be done from bottom of wall to upward without any hollows in the bed of joints. Each tile shall be as close as possible to one adjoining. All tiles faces shall be in one vertical plane.

8 WATERPROOFING:

The guarantee for all waterproofing works shall be for a period of 10 years unless specified otherwise. Guarantee for waterproofing treatment in prescribed proforma must be given the contractor on stamp paper for overall responsibility. The guarantee for waterproofing treatment in the prescribed proforma shall cover waterproofing of expansion joints. Contractor shall be responsible for waterproofing completely in guarantee period. It shall cover cover all extra cost to make good the damage under guarantee period and also cover the indirect cost like site mobilizing, scaffolding, correspondence, legal consultation, damages occurred during making good the damage. Water-proofing should be of Polymer based material. Contractor should introduce their vendor to ENGINEER who will explain their methodology & engineer will take decision on which polymer waterproofing methodology suits the sanitation unit. Contractor should introduce at least two vendors who are having experience in polymer base waterproofing treatment.

9 DOORS & WINDOWS:

Scope:. The work in general shall consist of supplying and/or erecting and installing of all doors, windows, ventilators, louvres, rolling shutters, g, etc. as shown on drawings with all materials complete including supply and fixing of glass and Frames. The scope shall also include the assembly and erection of all doors, windows, louvers, etc. Supplying and/or fixing of all door and window accessories and hardware are also included in the scope. All doors for Toilet blocks should be of FRP- 35MM thick with handles at both sides, aldrop from inside including all necessary finishes, frames, approved by ENGINEER for material, workmanship, guarantee period, etc.

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All doors for entry of sanitation unit should be of MS sheet & frame & MS grill above 5 ft height including finishing, 2 coat of paints, aldrop, handles, proper finishes, approval from ENGINEER for workmanship, materials, etc... Complete

Windows means cement jali samples of which need approval from ENGINEER & should be fixed in locations shown in the drawing & require approval of ENGINEER for material quality & workmanship.

10 PAINTING

Scope

This specification covers painting, white washing, etc. of both interior and exterior surfaces of masonry, concrete, plaster, and other miscellaneous items, as shown on drawings, schedules or as directed by the Engineer.

Oil Bound Distemper –

The surface where OBD is to be applied shall be cleaned of all loose materials and dirt. All holes and irregularities of the surface shall be filled up with lime putty and shall be allowed to dry up before application of the first coat of Primer. Two coats of Primer & two coats of OBD should apply to get proper finish.

Second coat shall be applied after the first coat dries up completely and similarly third coat shall be applied and in case the engineer feel that one or more coats are required the contractor shall do so without any extra cost to the Owner. No brush marks shall show on the finished surface.

External (APEX) Paint: Surface to be coated with APEX paint shall be washed and brushed down. The surface to be painted shall be treated with the application of a coat of cement primer when so directed. The new surface / prime surface shall be coated with first coat of paint. Care shall be taken so that the paints does not dry but too rapidly. After 4 to 6 hours, the water shall be sprinkled over the surface to assist curing and prevent cracking. After the first coat has dried (24 to 48 hours), the second coat shall be applied in a similar manner. The finished surface shall be kept moist by occasional sprinkling with water for seven days after painting. For repainting walls with old plaster one coat of primer shall always be applied before first coat.

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11 PLUMBING WORKS

All plumbing works should be as per drawings & as directed by ENGINEER. All plumbing works should get tested before handover. All plumbing materials should be as per brands / companies specified in the list below. Contractor should test all the plumbing system in presence of ENGINEER & it will be cleared only after certification from the ENGINEER. Contractor's scope of plumbing work includes providing & laying all water supply lines (inlets & outlets), looping, OH Tank installation, All WC. Urinal, Wash basin plumbing lines, P-traps, WC Pans, all CP fittings, WC Pans, related fitting for their functioning, twin pits / septic tank / soak pit constructions with all necessary connections, all finishes, testing, construction of necessary chambers as directed by engineer, all the things require for proper functioning of water supply, plumbing & drainage system, rain water down takes, chamber covers, etc... anything instructed by ENGINEER for functioning of plumbing system, etc....complete

12 ELECTRICAL WORKS

All Electrical works should be as per drawings & as directed by ENGINEER. Scope of electrical work includes all the wiring require for sanitation unit, switch boards, tubes, bulbs, cabling upto meter room, meter room work, chamber construction, its covers, all the works instructed by ENGINEER necessary for electrical system functioning, etc... All electrical materials should get tested before handover. All electrical materials should be as per brands / companies specified in the list below:

LIST OF APPROVED MAKES OF MATERIALS

Only one of the under mentioned makes of equipment and materials will be acceptable. Although the acceptable makes are given, the Contractor shall submit samples of all materials other than heavy equipment and obtain prior approval of the Architect/ Consultants (whose decisions shall be binding) for the make of each item before ordering the same. This condition is also applicable to all items of equipment and material for which makes are not given in these specifications:

Note - In the event of non-availability, while procuring the equipment/ materials, the selected Contractor may choose any other make in this list subject to any rebate available being passed on to the Owner. Selection of equipment/ material before procurement shall be got approved from the Owner/ Consultant.

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1. Cement (53 OPC Grade for all works & 43 PPC Grade for waterproofing works)

A. Gujarat Ambuja

B. Ultratech3

2.Steel

A. Tata Tiscon

B. Sail TMT

C. Balbir

3. Translucent roofing sheets

A. G. E. Plastics (Polycarbonate Sheets)

B. Everest

4. Waterproof coating

A. Fosroc

B. Roff

C. Sunanda

5.Water Proofing Compounds

A. Pidilite

B. Roff

C. Fosroc

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6.Interior Paint	
	A. Asian
	B. Berg
	C. ICI D. Nerolac
7.Exterior Paint	A. ICI
	B. Asian
	C. Berger
8. Vitrified tiles / Antiskid Tiles	
	A. Johnson Tiles
	B. Nitco
	C. Kajaria
	D. Somani Pilkington
	E. Morbi – Gujarat
9.Ceramic Tiles	A. H & R Johnson
	B. Nitco
	C. Kajaria
	D.Somani Pilkington
	E. Morbi – Gujarat

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WE PLAY IMPOSSIBLE THINGS AND MAKE POSSIBLE

10.Doors -

A. Toilet Block - FRP - 35mm thick - approved by ENGINEER B. Sanitation Unit Entry doors - MS Door with Grill 1ft height approved by ENGINEER. Contractor has to submit shop drawing for door

11.Interlocking Blocks

- A. Basant beton
- **B.** Super Tiles
- C. Gurjari

12.Plumbing

- A. CPVC Pipes Astral / Prince
- B. CP Fittings Seiko / brands approved by ENGINEER
- C. Sanitary wares Brands approved by ENGINEER

13. Elecrical Works

- A. Wires Polycab
- B. Switches Anchor

Any other materials need approval from ENGINEER for its brand / company before its purchase.

(Note: If above specified items of approved company are not available, then Engineer approval should be obtained before using items of any other company.)

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BOO FOR SCHOOL SANITATION UNIT

Sr. No	Description of Item	Quantity	Unit
Α	Civil Works		
1	Excavation in soft murum for foundations, plinth protection, septic tanks upto 6ft depth including shifting of murum & backfilling after foundation completion	993	cft
2	P/L Soling 230mm thick at bottom of excavated trench & for plinth including gap filling, compaction, etc Complete	235.50	cft
3	P/L PCC in M10 grade over the soling for the foundation work	151.92	cft
4	P/L UCR in CM 1:6 in excavated trench as a foundation masonry having 15" width & upto 1'6' above ground including curing, backfilling, raking out joints, all necessary finishes etc Complete	492.83	cft
5	P/L M-20 concrete for Coping, RC slab including shuttering, curing, deshuttering, all necessary finishes, etc Complete	230.76	cft
6	P/L murum for backfilling in compacted layers for excavated trenches, plinth, plinth protection of sanitation unit with proper compaction in required thickness, etc Complete	244.50	cft
7	P/L 9" thk brick masonry for superstructure in CM 1:4 in line & plumb including all necessary finishes, curing, raking out joints, etc complete	18.00	cft
	P/L 4" thk brick masonry for superstructure in CM 1:4 in line & plumb including all necessary finishes, curing, raking out joints, etc complete	11.88	cft
8	Providing reinforcement for RC coping over the foundation Masonry including cutting, binding, all necessary finishes etc Complete	641.84	kg

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9	P/A internal plaster to the walls of sanitation unit in CM 1:4, 8- 10mm thick with proper finishes, line & plumb, curing, necessary repairs etc Complete	794.75	sqft
10	walls		
11	ceiling		
12	P/A external, plaster in CM 1:6 in two coats to external sides of sanitation units including scaffolding, proper finishes, curing, necessary repairs, etc complete	664.00	sqft
13	walls		sqft
14	Celling projections		sqft
15	Terrace waterproofing with polymer base chemicals	310.50	sqft
16	P/A waterproofing treatment to all WC's & urinal areas	110	sqft
	Total (Civil & Waterproofing Works)		

В	Plinth Protection Works		
1	Excavation in soft murum for foundations, plinth protection, septic tanks upto 6ft depth including shifting of murum & backfilling after foundation completion	69	cft
2	P/L murum for backfilling in compacted layers for excavated trenches, plinth, plinth protection of sanitation unit with proper compaction in required thickness, etc Complete	34.5	cft
3	P/L 100mm thick compacted GSB filling for Asas a sublayer below the Paverblocks for surface levelling & base preparation in plinth protection	18.98	cft
4	P/F paver blocks 50mm thick over the compacted layer of GSB filling with line, level, proper finishing, filling the joints with river sand, cleaning the surface, etccomplete for plinth protection	46	sqft
	Total (Plinth Protection Works)		

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С	Civil Finishing Works		
1	P/L antiskid flooring 300mm x 300mm size to the sanitation unit including joint filling, line, slopes, all necessary finishes, etc Complete	210.00	sqft
2	Providing to dado upto 3ft height to all internal walls of the sanitation unit including line, plumb, joint filling, all necessary finishes, etc Complete	272.25	sqft
3	P/F Marble frame for doors & windows of the sanitation unit	0	sqft
4	P/F Lintel over the doors & windows of the sanitation unit	9	nos
5	Providing Kadappah partition in between urinals	18	sqft
6	P/F PVC doors to WCs in sanitation units	5	nos
7	P/F MS doors to Boys, Girls & for special children's entrances	3	nos
8	P/F Jaali (2' x 2' louvers in WC's & urinal area	6	nos
9	P/F aluminium sliding window in passage area of boys & girls sanitation units (3' x 3')	12	sqft
10	P/A oil bond distemper paint to internal walls & ceiling of the sanitation unit including one coat of primer, two coats of OBD, all the necessary finishes, repairs, etc Complete	536.75	sqft
11	P/A Apex Paint to externals sides of the sanitation unit including one coat of primer, two coats of Apex, scaffolding, all the necessary finishes, repairs, etc Complete	720.00	sqft
14	Providing ramp for special children sanitation unit	1	LS
	Total (Civil Finishing Works)		

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D	MEP Works		
1	Providing all the internal plumbing require for proper functioning of water supply & drainage system for sanitation unit including water supply to all WC's, urinals & laying of PVC pipes upto septic tank, nahani trap fixing, WC, urinals fixing, its connections, commissioning of all the drainage, etc Complete	1	LS
2	P/F Bib cock for sanitation units	5	nos
3	P/F Angle cock for sanitation units	3	nos
4	P/F Stop cock for sanitation unit	3	nos
	P/F Pillar cock for wash basins	3	nos
5	P/F Flushing tank of 5ltr capacity to sanitation unit	1	nos
6	P/F Indian WC to sanitation unit	5	nos
7	P/F European WC in special children sanitation unit	1	nos
8	P/F jet spray in special children sanitation unit	1	nos
9	P/F wash basin in sanitation unit	3	nos
10	P/F Mirrors in sanitation units	3	nos
11	P/F SS rod in special children sanitation unit	12	rft
	P/F urinal pans	3	nos
12	P/F flush type cocks in urinals	3	nos
13	P/F 2000 ltr IS approved OH Tank on the terrace of the sanitation unit including all the plumbing work for water supply in sanitation unit	1	nos
14	Providing all the electrical arrangement for sanitation unit including sufficient light points, electrical point for incinerator, exhaust fans & other necessary electrical points, wiring, earthing, switch boards, circuit breakers, electrical meters, wiring up to electrical meter room, necessary arrangement for meter room, cable laying, commissioning of electrical system for sanitation unit, etc Complete	1	LS
	Total (MEP Works)		

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E	Septic Tank		
1	Excavation in soft murum for foundations, plinth protection, septic tanks upto 6ft depth including shifting of murum & backfilling after foundation completion	480	cft
2	P/L PCC in M10 grade over the soling for the foundation work	26.4	cft
3	P/L 6" thk brick masonry for superstructure in CM 1:4 in line & plumb including all necessary finishes, curing, raking out joints, etc complete	220	cft
4	P/F precast concrete slab over the septic tank with covers, vent pipe, etc Complete	31.5	cft
	Total (Septic Tank)		

TOTAL (A+B+C+D+E)		
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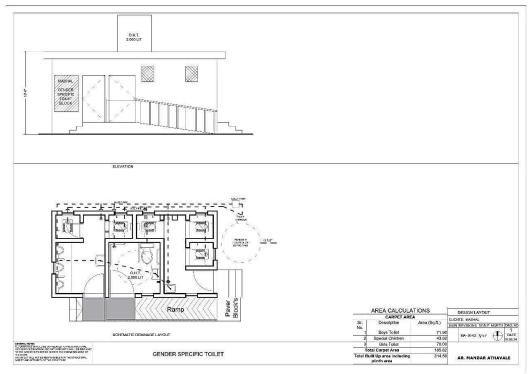
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Drawings





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3D Model Image



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