

Name of work :- CONSTRUCTION OF AANGANWADI KARJAN-2 AT VILL:KARJAN, TA; KAMREJ, DIST-SURAT.

:: BILL OF QUANTITY ::

Percentage Rate Tender

| Sr. No. | Description of Item (with brief Specification and reference to book of specifications) | Quantity | Unit | Rate In Figures | Amount |
|---------|--|----------|------|-----------------|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 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. (A) Loose or soft soil | 68.07 | CMT. | 122.93 | 8,367.85 |
| 2 | Excavation for foundation upto 1.5 m to 3.0 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (A) Loose or soft soil | 20.86 | CMT. | 136.47 | 2,846.76 |
| 3 | Filling available excavated earth (Including rock in trenches plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each deposited layer by ramming and watering) | 67.26 | CMT. | 136.91 | 9,208.57 |
| 4 | Providing & filling in plinth with murrum or yellow soil or selected soil in layers of 20 cm. Thickness. Incl. watering, ramming & consolidation etc. complete. | 7.94 | CMT. | 301.77 | 2,396.05 |
| 5 | Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete. (A) Foundation and plinth | 7.94 | CMT. | 481.80 | 3,825.49 |
| 6 | Providing and laying cement concrete 1:2:4 (1- Cement :2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete including cost of formwork in (A) Foundation and Plinth (A) PCC | 11.07 | CMT. | 3,923.85 | 43,437.02 |
| 7 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in foundation, footings base of column and mass concrete. (A) Footing | 8.46 | CMT. | 4,563.18 | 38,604.50 |
| 8 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Types of Column D) Column, Pillers, posts and struts , upto Plinth | 2.26 | CMT. | 8,001.22 | 18,082.76 |
| 9 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Types of Column D) Column, Pillers, posts and struts, upto Ground Floor | 3.51 | CMT. | 8,001.22 | 28,084.28 |
| 10 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Types of Column D) Column, Pillers, posts and struts, upto Terrace Floor | 0.31 | CMT. | 8,124.06 | 2,518.46 |
| 11 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of the cost of reinforcement for reinforced concrete work in Beams. (E) Beam, upto Plinth | 5.18 | CMT. | 6,321.59 | 32,745.84 |
| 12 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Types of Beams,(E) Beam, Ground Floor | 4.92 | CMT. | 6,321.59 | 31,102.22 |
| 13 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Types of Slab,All Thickness (C) Slab upto Plinth and Ground Floor | 6.09 | CMT. | 6,267.05 | 38,166.33 |
| 14 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in All Thickness in Walls PARDI Ground Floor | 0.10 | CMT. | 6,897.30 | 689.73 |
| 15 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in Lintel upto Ground Floor | 0.37 | CMT. | 5,865.08 | 2,170.08 |

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| 16 | Providing and laying cement concrete M.200 and curing complete including the cost of formwork but Excluding the cost of reinforcement for reinforced concrete work in Chajja. Upto Ground Floor | 0.44 | CMT. | 6,886.18 | 3,029.92 |
| 17 | Providing and fixing TMT bars Fe-500D steel reinforcement for R.C.C. work including binding, bending and placing in position complete upto floor two level ,Ground Floor, First Floor,Second Floor , Terrace Floor ,Lift Machine Floor (all floor). | 3838.13 | KG | 77.30 | 2,96,687.45 |
| 18 | Brick work using common brunt clay building bricks having crushing strength not less than 35 kg/sqcm. in foundation and plinth in cement mortar 1:6 (1 cement :6 fine sand) etc.comp. (B) Conventional Ground floor upto Plinth | 9.22 | CMT. | 4,214.32 | 38,856.03 |
| 19 | Brick work using common brunt clay building bricks having crushing strength not less than 35 kg/sqcm. in superstructure above plinth level upto floor two level in cement mortar 1:6 (1 cement :6 fine sand) etc.comp. (B) Conventional Ground Floor | 20.97 | CMT. | 4,503.04 | 94,428.75 |
| 20 | Brick work using common brunt clay building bricks having crushing strength not less than 35 kg/sqcm. in superstructure above plinth level upto floor two level in cement mortar 1:6 (1 cement :6 fine sand) etc.comp. (B) Conventional First Floor | 1.81 | CMT. | 4,545.16 | 8,226.74 |
| 21 | Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation and plinth (B) Conventional | 1.80 | SMT | 629.83 | 1,133.69 |
| 22 | Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or Full/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) Ground Floor | 200.22 | SMT | 161.19 | 32,273.46 |
| 23 | Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or Full/half brick walls for interior plastering and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) First Floor | 8.77 | SMT | 185.75 | 1,629.03 |
| 24 | Providing & laying 10 mm. thick cement plaster in single coat on fair side of ceilings for interior plastering upto floor two level and finishing with smooth mala plaster.(i) Cement mortar 1:4 (1 cement : 4 sand) Ground Floor | 52.96 | SMT | 148.31 | 7,854.50 |
| 25 | 20mm thick sand faced cement plaster on walls upto Any height metres consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete. Upto Ground Floor to Terrace (LMR) Floor | 107.78 | SMT | 315.68 | 34,023.99 |
| 26 | Providing and laying Granite Slab 18mm thick in Flooring laid 20mm thick Cement Mortar 1:4 (1-Cement : 4-Coarse Sand) and jointed with Grey Cement Slurry including full molded round front edges , rubbing and polishing etc. complete. | 3.75 | SMT | 2,190.69 | 8,215.09 |
| 27 | Providing and laying Granite Slab 18mm thick in Risers of steps Dedo, window sill, jembs and pillars laid 10 mm thick Cement Mortar 1:4 (1-Cement : 4-Coarse Sand) and jointed with Grey Cement Slurry including full molded round edges , rubbing and polishing etc. complete. | 12.87 | SMT | 2,159.38 | 27,791.22 |
| 28 | 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 | 4.07 | SMT | 1,015.53 | 4,133.21 |
| 29 | Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement. | 44.05 | SMT | 1,120.36 | 49,351.86 |
| 30 | Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry,Soluble Salt Vitrified Tiles Flooring. | 24.43 | SMT | 1,195.02 | 29,194.34 |
| 31 | 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.. | 9.83 | SMT | 2,838.10 | 27,898.52 |

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| 32 | Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm(Wt 1.094 Kg / Rmt), horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm (wt.of 0.695 Kg/mt), vertical member of size 61.85 mm x 31.75mm x 1.30 mm (wt.of 0.0.659 Kg/mt) with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm (wt.of 0.456Kg/mt), vertical member of size 40mm x 18mm x 1.29mm (wt.of 0.456Kg/mt/ Section 8948, @ Wt. 0.457 Kg/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 complete for window. | 3.38 | SMT | 5,629.41 | 19,027.41 |
| 33 | Providing and fixing standered extruded of alluminium section of size 63mm x 38.10mm x 1.2mm (Jindal Section :2434, @ Wt. 0.643 Kg/mt) with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation. | 0.36 | SMT | 1,175.56 | 423.20 |
| 34 | Providing and fixing M.S. grill of required pattern of windows etc. with M.S.. flats at required spacing and frame alround square or round headed bolts and nuts or by screws.including applying a priming coat of red lead paint and two coats of oil painting etc complete (A)Plain grill. | 50.70 | Kg | 116.15 | 5,888.81 |
| 35 | Applying two coats of Birla (white cement based) or (acrylic lapy-putty) or equivalent & two coats of primer of approved brand and manufacture on new wall surface,Ceiling surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand paped smooth. | 261.95 | SMT | 40.59 | 10,632.55 |
| 36 | Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface,Ceiling surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand paped smooth. | 261.95 | SMT | 84.36 | 22,098.10 |
| 37 | Providing & applying single coat of textured at external surface at all floor levels with three coats of weather proof cement exterior paint of approved standard brands make at outer side of the building on RCC or Masonary walls. Rate to include for all labour, materials, staging, scaffolding, cleaing, curing etc. application of texture after throughly brushing the surface to give an even shade free from mortar dropping/other foreign matter etc. complete. application of textures & paints must be as per company's standard instructions. Texture and colour selection as per approved by engineer in charge.(It is recommended to use low voc paints rated by IGBC) Unit Rate of 1 Sq.Mt. | 107.78 | SMT | 546.41 | 58,892.07 |
| 38 | Applying priming coat over new steel and other metel surface after and including preparing the surface by throughly cleaning, oil,grease, dirt and other foreign matter and scoured with brushes fine steel wood, scrapers and sand paper with ready mixed priming paint brushing red lead. and Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter. | 3.38 | SMT | 128.62 | 434.74 |
| 39 | Providing and constructing sandwitch type Granite stone top & bottom Kota Stone platform 0.6 mt. wide & 0.75 mt. height, including front granite stone patti of 10 cm wide, vertical partitions of Kota stone with cement Mortar(1:1) as required comp as per instruction given by site in charge at all floors. | 3.40 | RMT | 3,459.25 | 11,761.45 |
| 40 | Providing and laying water proofing treatment cement concrete flooring 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement. (B) 50mm thick. | 51.12 | SMT | 339.07 | 17,333.26 |
| 41 | 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. | 51.12 | SMT | 779.69 | 39,857.75 |

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|----|---|-------|-----|----------|-----------|
| 42 | Providing and fixing wash down water closet (European type, W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) including Providing and fixing plastic seat and cover for wash down water closer with C.P. brass hinges and rubber buffers. (A) vitreous China Pattern :(i) in white colour | 1.00 | No | 1,648.15 | 1,648.15 |
| 43 | Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including putting holes and making good the Providing and fixing C.P. brass waste for washbasin or sink. (A) 32mm dia., Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia., Providing and fixing brass screw down stop tap. (A) 15mm dia. (A) Vitreous China: (ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour. | 1.00 | No | 2,165.90 | 2,165.90 |
| 44 | Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I. screed down or hinged grating including the cost of cutting and making good the walls. | 3.00 | No | 599.64 | 1,798.92 |
| 45 | Providing and fixing screw down bib taps of following size. (A) Brass screw down bib tap polished bright. (i) 15mm dia. | 4.00 | No | 186.83 | 747.32 |
| 46 | Providing and fixing Gun metal check or non-return fullway wheel valve. 25mm. dia. | 1.00 | No | 420.63 | 420.63 |
| 47 | Providing and fixing chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete. (ii) 25mm dia. | 1.00 | No | 263.77 | 263.77 |
| 48 | Providing and fixing ball cock of approved. quality as directed. (A) Copper Metal (A) 25mm. dia. | 1.00 | No | 132.89 | 132.89 |
| 49 | Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. | 11.00 | RMT | 72.65 | 799.15 |
| 50 | Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. | 10.00 | RMT | 91.84 | 918.40 |
| 51 | Providing, laying and jointing in true line and level 110mm diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials. | 16.00 | RMT | 878.57 | 14,057.12 |
| 52 | Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight. (i) Square mouth traps. (B) 150mm x 100mm size P or R type | 1.00 | No | 1,246.92 | 1,246.92 |
| 53 | Constructing Brick masonry road gully chamber 500mm x 450mm x 600mm including 500mm x 450mm C.I. horizontal grating with frame complete. | 2.00 | No | 2,017.19 | 4,034.38 |
| 54 | Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg. Cm ² in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm internal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slab with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete. (i) Inside dimensions 455mm x 610mm and 450mm deep for single pipe line. | 1.00 | No | 2,932.93 | 2,932.93 |

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| 55 | Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (B) 150 mm dia. | 5.00 | RMT | 257.19 | 1,285.95 |
| 56 | Providing & fixing G.I. Rain water spout of 50 mm.dia & 30 cm length etc. | 1.00 | No | 101.91 | 101.91 |
| 57 | Providing and fixing in position cowl vent to pipes.(C) 100mm dia | 1.00 | No | 505.17 | 505.17 |
| 58 | Providing erecting and fixing double coated PVC. (ISI) water tank of required capacity each with all necessary fittings and connection etc. complete on terrace. | 1000.00 | Litr | 3.94 | 3,940.00 |
| 59 | Wall painting cartoon types,ABCD,123,Animal photos,Vegetables & fruit painting with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. | 24.00 | SMT | 469.65 | 11,271.60 |
| | | | | | 11,61,594.19 |
| | | | | | 11,61,594.19 |
| Rs. Eleven Lack Sixty One Thousand Five Hundred Ninty Four and One Nine Paise Only. | | | | | |

I/We am/are willing to carry out the work at% above/below (percent should be written in figures and words) of the estimated rates mentioned above. Amount of my/our tender works out as under.

*Estimated amount

Put to tender Rs...

Deduct % below

Net

In words

*(please strike out whichever is not applicable)

*Estimated amount

Put to tender | **11,61,594.19**

Add % Above Rs.....

Total Rs.

In words

Note :- 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 be made.

Note :- 2 The labourcess will be deducted as per prevailing rules i.e. 1% of the work done.

Note :- 3 GST and Income tax TDS will be deducted at a source while making payments of bills.

Note :- 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.

Deputy Executive Engineer
Panchayat (R&B) Sub Division
Kamrej

Executive Engineer
Panchayat (R&B) Division
Surat

Signature of the contractor