

**Name of Work :- SR to Various Building Non Residential Building of Vaso and Nadiad Section
under R & B Sub Division, Nadiad**

SPECIFICATION INDEX

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
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[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	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[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. (A) Loose or soft soil	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[3]	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[4]	Providing and laying cement concrete work 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base or columns and Mass concrete	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[5]	Providing and laying cement concrete work 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts upto floor two level.	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[6]	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[7]	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6 (1- Cement : 6 -fine sand) (A) Modular	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[8]	20mm thick sand faced cement plaster on walls upto height 10 metres above ground level 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[9]	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[10]	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	KG	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[11]	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T. (E) From Borrow area within 3.0KM. lead	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[12]	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (ii) In Cement Mortar.	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[13]	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[14]	Applying two coats of two component dampproof coating 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 as per instruction of Engineer In Charge.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[15]	Applying general insecticide pest control treatment to floors, cupboards etc including labour materials etc. complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II ((0.075% concentration by mass) is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sqm of surface is recommended as per I.S.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[16]	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[17]	Applying two coats of lappy (putty) and two coats of approved brand and manufacture on new wall surface to give as even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand paper smooth.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[18]	Distemping (Three coats) with oil bound washable distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade over and including a primer coat with alkali resistance primer of approved brand after thoroughly brushing the surface to give an even shade free from mortar droppings and other foreign matter and also including preparing the surface even and smooth for all floor etc. complete.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[19]	Dismantling sanitary fittings like wash basin . W.C. pan Indian and European type, flushing tank etc. including stacking the materials with all lead and lift.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[20]	Providing and fixing Flush tank of approved quality with all necessary connections with inlet, outlet and overflow etc. including all labour and materials as directed by engineer in charge.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[21]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Quarter Turn Pillar Cock for Basin including labour, material, transportation etc.complete as directed by engineer incharge.	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[22]	Providing and fixing post and pipe railing as per detailed drawing including 3 coats of painting to steel works complete.	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[23]	Providing laying and jointing in true line and level 40mm 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.	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[24]	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (G) 110 mm	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[25]	Providing and fixing standared extruded of alluminium section of size 63.50 x 38.10 x 1.95 mm @ Wt 1.094 Kg/Rmt. with colour Powder Coated alluminium frame with 5 mm thick bakelite sheet shutter with steel hinge, handles and necessary fixtures and fastenings etc. complete for Door.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[26]	Repairing to Door / Window including dissembling from frame, wroughting, providing patti, angles, replacing / repairing stoppers - aldrops - handles etc. for proper fixing in to frame hole etc. complete for smooth operation and proper utilization including assambeling and refixing of the same as directed by Engineer-in-charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[27]	Providing and fixing screw down bib taps of following size. (B) Brass chromium plated screws down Bib Tap. (ii) 20mm dia.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[28]	Providing and fixing Health Fauset Heavy duty with hook with fitting including all labour and materials as directed by engineer in charge.	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[29]	Providing and fixing M.I. fisher union for washbasin or sink. (B) 40mm dia.	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[30]	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame around, square or round bars with round headed bolts and nuts or by screws. (A) Plain Grill.	KG	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

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[31]	Rehabilitation of RCC Structure including removal of cement plaster spallad, loose and disintegrated concrete with Cleaning the surface of the cement concrete and reinforcement from all the loose materials with wire brush, water jetting etc. then Pro. & Fix. Chicken wire mesh of 16x24 guage Mesh to Prevent the damaged part of the existing R.C.C. member through attend ensure proper bonding between old and new concrete application of bonding coat of slurry of POLYALK-EP and cement in 1:2 (1 cement : 2 polyalk EP) after then Providing 20 mm thick cement plaster in single coat on single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand) including floating coat for finishing with a floating coat of neat cement slurry.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[32]	Providing and fixing Febric Curtain with Road & Eyelet with Scretch and Rust free 1" metal (iron) rod with decorative round finials or either end. Powder coated finish in nickle, Bronze or Black shades as sectrion to be supplied & installed in all windoes with great precision. Febrick as per selction of Architect, Stiching & fixing as required by desing allnecessary fixtures & Fastners including finials, brackets, fishers etc. complete	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[33]	Providing and fixing wooden panneling made of framing the skeleton (plywood frame structure) with 18mm + 18mm thick MR grade plywood for vertical and horizontal plywood (patti) one side cover with 6mm thick MR grade plywood for grooving as per design.Fixing properly without any air gap and finishing with seletced 1.00 mm thick laminate.Before installation, make hole/face plate for conduit pipes of eletcrical/networking cables with openable stud from partition Including all materials and labour etc.complete as per detail drawing and instruction of engineer-in charge.Wooden Pelmat Laminate	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[34]	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy erected on existing hook or clamp with earthing. [Make shall be approved by <u>Engineer in charge</u>]	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[35]	Replacing the bearing/ bushing of Ceiling fan and putting the fan in working order including credit of D.M. retained by Agency. (a) Bearing	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[36]	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate, modules erected with necessary connections as per site situation directed by Engineer In charge. (5) Electronic hum Free steps EME Fan regulator, Cat.III	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[37]	Replacing condenser for ceiling fan/ Exhaust Fan / Pedestal Fan / Table Fan / Cabin Fan {Credit of D.M. retained by Agency.}	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[38]	Providing & erecting following type of Modular Type Accessories with necessary connection As desired by Engineer In charge. (1) 6 Amp. SP one way switch	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[39]	Providing & erecting following type of Modular Type Accessories with necessary connection As desired by Engineer In charge. (2) 16 Amp. SP one way switch	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[40]	Providing & erecting following type of Modular Type Accessories with necessary connection As desired by Engineer In charge. (3) 6/16Amp. Universal socket	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[41]	Providing & erecting following type of Modular Type Accessories with necessary connection As desired by Engineer In charge. (4) 6 A socket	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[42]	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed /open box with single mounting base frame covered with textured / metallic /white front plate, modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug, For Modular Type Accessories, Cat.III	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

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[43]	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt, LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates) (NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (iii) 18-20 Watts, Surge - 2KV, IP-20, conventional 4 feet, Cat-III	Ea.	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[44]	Demolition and disposal of unserviceable materials with all lead and lift. (i) Cement concrete.	Cum	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[45]	Providing and applying two coats of Hybrid Polymer flexible acrylic coating of Sovacryl K-10 of Parex (Sika India) or approved equivalent brand with under coat adhesion promotor priming coat of Flow Prime WB of Parex (Sika India) or approved equivalent make. Cleaning the existing surface throughly, chase open the crack available at surface and fill the same with crack filler material of approved brand. After application of 1st coat of Sovacryl K-10 on Flowprime WB, a fibre glass mesh of 45 GSM to be sandwiched between 1st & 2nd coat of Sovacryl K-10. The products shall be applied in strict accordance with the manufacturer's specification. (The crack filling shall be paid under relevant item)	Sqm	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[46]	Providing and laying concrete 1:2:4 (1 cement :2 coarse Sand: 4 Graded Stone Aggregate 20 mm nominal size) in proper gradient on terrace slab as directed by Engineer-in-charge to have proper slope for draining rain water including finishing top with floating coat of neat cement.	Cum	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[47]	Providing & fixing of Waste Pipe for Wash basin & Urinal C.P. 40 mm dia. as per the instruction of Engineer-In-Charge.	Each	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[48]	Providing and fixing glazed louvered glass windows and ventilators with teak wood frame 10cm. x 7cm. size including 3 coats of oil painting to wood work etc. complete.	Sq.m	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[49]	Scientific cleaning of over head water tank and under ground sump including wall cleaning with turbolesor with high Pressure and removed sludge and impurities of suction operation in under ground water sump wt. and dry cleaning by vacuum pump disinfection with anti bacterial agent and viral disinfection with U.V. radiation and mosquito distroy with specific system etc. complete. (D) More Than 5000 litre capacity.	Litre	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[50]	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	Litre	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[51]	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure poluthene pipes of the following outside Dia. Low density, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (D) 40mm	Rmt	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[52]	Providing and fixing 12.5 Litres low level flushing cistern with a pair, of C.I. or Mild brackets, complete with fittings such as lead valve less syphon, 15mm nom.nal size brass ball valve with polythene float, C.P brass handle unions and couplings for connections, with inlet, outlet and overflow pipes, 40mm dia. porcelain enamelled flush bend including cutting holes in walls and making good the same connecting the flush bend with cistern and closet (overflow pipe to be measured and paid for separately) (A) Vitreous China (I) In white colour	Each	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[53]	Providing and fixing Health Fauset Heavy duty with hook with fitting including all labour and materials as directed by engineer in charge.	No	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.
[54]	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (ii) 20mm dia.	Each	As per Separate Sheet Attached. The Item should be execute as per item description and as per the instruction of engineer in charge.

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[55]	Providing and fixing flat back wash basin 550 mm x 400 mm size of first grade, white in colour with single hole for pillar trap with CI or MS brackets painted with including cutting holes and making good the same including providing and fixing CP brass wastecoupling 32mm dia including providing and fixing MI washer union 32 mm dia, including providing and fixing 15mm dia pillar tap capstan head screw down high pressure with screws, shanks and back nuts, including providing and fixing waste pipe 15mm x 600 mm pvc inlet connection 15mm brass screw down stop tap with necessary fittings etc. complete	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[56]	Providing and fixing coloured wash down water closet (European type WC pan) with integral 'P' or 'S' trap with soil pipe in cement mortar 1:1 (1 cement : 1 fine sand) with coloured plastic seat cover with CP brass hinges and rubber buffers including cutting holes in wall and making good the same etc complete.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[57]	Providing and laying Acrylic Polymer type waterproofing treatment to terrace by Cutting out cracks of roof terrace to V- section, cleaning out, wetting, grouting with cement and sand slurry 1:3 (1-cement 3-sand) including waterproofing Solutions in single coat then applying second coat of waterproofing materilas with white cement to seal the joints properly using brush as directed by Engineer in charge..	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[58]	Lifting of submersible motor pump set complete with required No .& size of casing pipes by means of proper chain pulley block and pipe. wrenches. Job includes stacking of pipes chronologically after due checking of threads. (A) Up to 60 mtrs.	Per Job	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[59]	Replacement of bronze/ carbon thrust bearing with fibre plate & housing for (B) 200 mm dia.	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[60]	Rewinding of submersible motor by using approved make PVC insulated copper winding Cores of suitable size complete with connection. Capacity Suitable for pump of following size. Dismantled Materials to be retained by agency. (B) 7.5 H.P	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[61]	Replacement of motor bush, upper/ lower with sleeve with following material (A) Bronze (ii) 200 mm. dia.	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[62]	Replacement of Bowl bearing/ bush (B) Lead (ii) 200 mm. dia.	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[63]	Providing Water proof straight Joint in PVC insulated flat flexible copper cable by using insulating material, water proofing material, & making the joint complete. (A) Up to 10Sq. mm .	Ea.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[64]	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (C) 3 Core x 4 Sq. mm	Mtr	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[65]	Supply of following size of TOP & BOTTOM accessories i.e. Adaptor set (CI) long, pump guard set, starter pipe Rubber ring for submersible pump & UPVC column pipe as directed by Engineer - in - charge with necessary plumbing as desired. [F] 80 mm dia	Per Set.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[66]	Lowering of submersible motor pump set at the depth of following, complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (A) Up to 60 mtrs.	Per Job	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[67]	Dismantling tiled of Stone floor laid in mortar including stacking of serviceble materilas and disposal of unservicebe materials with all lead and lift.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[68]	Dismantling C.I. pipes G.S. W.pipes and A.C. rain water pipes with fittings and clamps including stacking the materials with all lead and lift (for any dia, of pipe)	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

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[69]	<p>CHIPPING EXIST CONC</p> <p>Surface of member should be checked for sounding using hammer. The damaged / delaminated portion will sound hollow The same should be marked to regular geometrical shapes. The edges should be grooved using slim and powerful 850W (230V) corded angle grinder about 25 mm deep. Grinder to have no load speed of 11500 rpm with on / off side switch and for use of cutting disc upto 100 mm. Concrete within the grooved area should be removed using High performance chipper hammer featuring low weight & low vibration having single impact energy of 7.5 J, full hammering frequency of 3180 impacts/minute, maximum chiselling performance of 900 cm³/min, weighted emission sound pressure level of 94 dB (A) according to EN 60745, Triaxial vibration for chiseling in concrete 12. Im/s² according to 60745-2-6 and having weight according to EPTA procedure 01/2003 of 5.6 Kgs</p>	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[70]	<p>P/A ANTI CORROSIVE REINFORCEMENT: Providing and applying anti corrosive rust remover "Rusticide" of M/S Sunanda speciality coating pvt. Ltd. or equivalent approved including cleaning the reinforcement bars with wire brush or air blowing including removing of all loose particle with applying rust remover thoroughly on reinforcement bars by using cotton waste swab etc. comp. with all the required tools, tackles, labourers as required and as directed by the Engineer in charge. (Area of Concrete treated with poymer modified mortar shall be measured for payment please)</p>	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[71]	<p>P/A STEEL PROTECTIVE COATING: Providing and Applying Steel protective coating: The exposed and cleaned reinforcement bars shall be applied with a single component cementitious corrosion inhibiting primer which shall be applied on the surface using suitable brush. Product: Mucis Protozione Ferro Mono of Thermax (Area of Concrete treated with poymer modified mortar shall be measured for payment please)</p>	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[72]	<p>Bonding Coat</p> <p>Providing and applying bond coat on the prepared surface to receive new polymer mortar / polymer modified concrete, with application of bonding coat of slurry made of Polyalk EP of M /S Sunanda Specialty Coating Private Ltd or of equivalent approved brand and manufacture in the weight proportion of 1 :2 (1 cement 2 Polyalk EP) or / Lanco 751 of Parex Chemicals or Krishna Conchem as per manufactures specification over the cleaned and dried old concrete surface in one full coat Laying of reinforcement polymer mortar or micro concrete shall b completed within the overlay time of bonding coat This coat s bonding agent between old and new concrete and also acts as 'barrier coat' to the migration of chloride ions from host concrete Item rate is inclusive of the materials all labour, scaffolding, supervision, tools and tackles and transportation etc complete a per specification and as directe To ensure proper bonding between old and new concre application of bonding coat of slurry made of Polyalk EP of M /S Sunanda Specialty Coating Private Ltd or of equivalent approved brand and manufacture in the weight proportion of 1 :2 (1 Cement : 2 Polyalk EP) or Lanco 751 of Parex Chemical as per manufactures specification over the cleaned and dried old concrete surface</p>	Sqmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[73]	<p>P&A POLYMER MODIFIED CEMENT MORTAR Applying Corrosion Resistance single Component polymer modified cement mortar to patch up the damaged concrete section in planks of upto 25mm thickness Providing and a g and applying Corrosion Resistance Single Component, polymer modified, fiber reinforced ementatious repair mortar having water powder ratio in the range of 0.16 and the mixed density of around 2.05 - 2.20 Gms/cc. The repair mortar shall achieve a minimum compressive strength of 45 MPa @ 28 days when tested as per ASTM C -109 and a flexural strength of 7 MPa when tested as per ASTM C 348. It shall achieve a minimum Adhesion Bond Strength of 2 MPa when tested on Standard Elcometer as per ASTM D 4541 - 8 The modulus of Elasticity shall be a minimum of 28 kN/mm² when tested as per BS 1881. Product: corrosion esistance single Component, polymer modified, fibre reinforced cementitious of M/s. Fosroc (Renderoc SP-40), Parex (Lanko-731) .</p>	Sqmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[74]	<p>Providing and applying 15 mm thick mala plaster in single coat on ir side on brick / concrete wall for interior plastering in C.M. 1:3 cement: 3 coarse sand) incl. finishing with a floating coat of neat cement slurry</p>	Sqmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[75]	Distempering (Three coats) with oil bound washable distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade over and including a primer coat with alkali resistance primer of approved brand after thoroughly brushing the surface to give an even shade free from mortar droppings and other foreign matter and also including preparing the surface even and smooth for all floor etc. complete.	Sqmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[76]	Providing laying and jointing in true line and level 15mm dia U.P. V.C. Pipe (SCH-40) for cold water including fittings make or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the help of clamp at every two meter C / C or shall be Concelled as directed in including necessary Fitting etc. including testing of pipe and joints and fixing the same with adhesiv solvent, including cost of all materials	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[77]	Providing laying and jointing in true line and level 25mm dia U.P. V.C. Pipe (SCH-40) for cold water including fittings make or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the help of clamp at every two meter C / C or shall be Concelled as directed in including necessary Fitting etc. including testing of pipe and joints and fixing the same with adhesiv solvent, including cost of all materials	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[78]	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure polythene pipes of the following outside Dia. Low densidy, complete with special falnge compression type fittings, wall clipsetc. including making good the wall ceiling and floor. (F) 75mm	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[79]	Providing, laying and jointing in true line and level 110 diametre 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 diametre x 149 mm length x 145 mm heigh 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.	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[80]	Providing and laying Ceramic tiles 6mm thick 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. (up to 10 ton)	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[81]	Providing and laying coloured glazed tiles of the size 300 mm x 200 mm x 8 mm / 300 mm x 450 mm x 8 mm in skirting, risers of steps and dedo on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) & jointed with white cement slurry.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[82]	Providing and fixing machine Cut, Free edge. machin polishec Granite stone slab 18 mm thick (single piece not more than 15 Doors/Windows sill and Jams, staircase tread and risers cladding etc. as per design including edge polish of a edges of granite stone and laid on 20 mm thick cement mortar 1:6 (1 cement:6 coarse sand) jointed with grey cement slurrly including rubbing and polishing finishing etc Complete.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[83]	Removing and scraping of old deteriorated plaster of any thickness fromm wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[84]	Dismentling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift. (ii) Exceeding 3 Sq.M. in area.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[85]	Brick work using common burnt clay building bricks having crushing strength not less than 35 Kg./Sq.m. in foundation and plinth in cement mortar 1:6 (1 cement:6 fine sand) (b) Conventional.	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[86]	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 (i) Cement mortar 1:3 (1-cement:3-sand)	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[87]	Providing and laying Mirror polished Machine polished Granite stone slab 18mm (Average) thick for doors & windows sill & Jams clading as per design including full moulded round front steps & 1cm nosing & necessary groove on trades of steps ,laid on 20mm thick cement mortar 1:6 (1 cement : 6 coarse sand) jointed with gray cement sluury including rubbing and polsihing etc. complete.for Doors / windows sill & jams clading.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[88]	Wall painting with Applying two coats of putty & two coats of primer of approved brand (three coats) plastic emulsion paint with one wall in every to highlight in special effect (royal play) color shade and color of approved brand and manufacture 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[89]	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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[90]	Applying general insecticide pest control treatment to floors, cupboards etc including labour materials etc. complete. Using Imidacloprid 30.5 SCas Per IS 6313 part -II ((0.075% concentration by mass) is recommended 10.5ml chemical diluted with 5 liters of water application 0.5 litre chemical /Sqm of surface is recommended as per I.S.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[91]	Finishing wall with Texture Finish paint of metallic finish on wall surface (three coat) including priming coat to give and even shade / pattern and of approved brand and manufacture including all material and labour work with thoroughly brooming the surface to remove all dirt and remains of loose powered material etc. complete.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[92]	Providing and fixing wooden paneling made of framing the skeleton (plywood frame structure) with 18mm + 18mm thick MR grade plywood for vertical and horizontal plywood (patti) one side cover with 6mm thick MR grade plywood for grooving as per design.Fixing properly without any air gap and finishing with seletced 1.00 mm thick laminate.Before installation, make hole/face plate for conduit pipes of eletcrical/networking cables with openable stud from partition Including all materials and labour etc.complete as per detail drawing and instruction of engineer-in charge.Wooden Pelmat Veneer	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[93]	WOODEN PARTITION Providing and fixing partitions, the average height of partition will be 1520 mm. The basic structure shall be made out of the Alluminium tubular/rolled section as framing, Aluminium Box Section size of 50mm x 25mm x 1.6mm thickness & at suggested intervals i.e 600 c / c fixed with each other 50MM*25MM*1MM thickness angle cleat proper fixity. The entire Alu. frame work shall be covered with 8 mm thickness plywood IS 310 on both the sides. All open sides of the framework shall be covered with the 12 mm thickness plywood for partitions. All the gaps either vertical or horizontal with proper material shall be filled properly. All the vertical members of the partition shall be inserted / fixed in the floor for proper strength necessary provisions shall be made in the partition for the electrical conduits / switch boards/etc. The external plywood components including the thickness of partition shall be finished with 1 MM thickness decorative laminate on both the sides. All visible exposed area of the partition covered with Indian teak wood beading where ever required. It shall have (3 coats) malamine spreay polishing finish. The quoting price should be inclusive of all types of taxes & duties, packing, forwarding, loading, unloading, installaion. As per detail drawing & choice of users department and Concern officers in charge as directed by the Architect / Engineer.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[94]	Repairing to Door / Window including dissembling from frame, wroughting, providing patti, angles, replacing / repairing stoppers - aldrops - handles etc. for proper fixing in to frame hole etc. complete for smooth operation and proper utilization including assambeling and refixing of the same as directed by Engineer-in-charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[95]	Both side laminate finish flush door.Providing Material & Labour charge for making laminate finish Flush Door (finished size of door is 40 mm) of size 975 mm x 2400 mm considering waterproof flush door sheet of 38 mm thknness covered both side by 1.0 mm thick Laminate supprted by SS -314 finish hinges. All exposed framing of 65 mm x12 mm made by teak wood bidding complete with polish. Finishing with all necessary hardwares like handles, conceal mortise locks, cylinders with 6 nos of keys, stopers, tower bolt, MS nails, SS-314 screws etc. as per details given in drawing and as per instructions of Architect/Engineer In charge. Please see the Attached Make List for Apporoved Makes.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[96]	Providing and supplying Medium back chair for conference with M.S frame work. Upholstered with changeable fabric upholstery covers (as per requirement) and molded PU foam, together with molded seat & back covers. The back foam should be designed with contoured lumber support for extra comfort. Caster of high durability & hydraulic. The chair should have cylinder with 5 years warranty. The size of chair 47.5cm x 58cm (Back side) and 49cm x 48cm (seat size) . The PU foam should be molded with density =45 ± 2 kg/m3 .with One piece armrests. The armrests are scratch and weather resistant. The permanent contact mechanisms is designed with 360° revolving type, with pneumatic height adjustment & 17 ° maximum tilt only & tilt tension adjustment facility. complete as per sample approved and as directed by the Architect and approved by the Engineer in Charge	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[97]	Providing And Arranging table for chamber having overall thickness of Top 40 mm (18+18+4mm) 18 mm thick MR Grade plywood and 4.00 mm thick veneer at top with melamine polish finish including 8mm thick back painted glass. Top to be made from 75mm x 50 mm Indian teak wood with half round moulded on long side with melamine polish. Leg 50 mm x 50 mm x 1.6 mm thick CRCA Square pipe and supporting pipe 50 mm x 25mm x 1.8 mm finishing with epoxy powder coated 50 micron with leveller. Apron having 18 mm thick MR Grade plywood with 4.00 mm thick veneer having melamine polish finish. Drawer Unit-450 x 550 x 600 mm having all Structure 18 mm thick MR grade plywood with veneer and teakwood border of specified size with melamine polish finish. Drawers (3 Nos) slides on Ebco make telescopic channel with Godrej make lock with two keys and necessary fixtures and fastening as approved with balancing laminate inside 0.8 mm thick of approved shade including all materials and labour etc. Complete as per drawing and instruction of engineer-in charge. Side Unit to be provided saparetly.Judge Table with MDU veneer Size :- 1800mm x 900mm x 750mm	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[98]	Providing and supply The chair pipe structure of MS CRCA finish 16 gauge round pipe having a diameter of 32 mm, the understructure frame tubular structure with stability for proper balance, the seat and back is supported on spring structure, the backrest armrest and seat dimensioned and curved from an ergonomics point of view, the frame and spring-seat structure prepared from MIG welding process & powder coated, proper high-density rubber bush provided at all four legs, seat & back upholstered with fabric.	No	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[99]	Zebra Roller blinds-CURTAIN :- Blinds assemblies are to be supplied & installed in all windows with great precision. It should be water resitant and fitted on alluminium headrails duly power coated and fitted with stainless steel drive rods. Manual operated and should have ISI mark.Providing & fixing roller type window curtains of Deck, Aerolux, Siddhi or eq. make including same brand channel - chain mechanism, synthetic black out fabric of approved colour & design, silver coated backside, same fabric plated pelmet etc. with all necessary fittings etc. complete as per Architect/ Site engineer's instructions as per sized specified in detail drawings.Material selection should be as per engineer in charge and chief architect.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[100]	<p>CHIPPING EXIST CONC.FROM RCC MEMBER</p> <p>Surface of member should be checked for sounding using hammer. The damaged/ delaminated portion will sound hollow. The same should be marked to regular geometrical shapes. The edges should be grooved using slim and powerful 850W (230V) corded angle grinder about 25 mm deep. Grinder to have no load speed of 11500 rpm with on / off side switch and for use of cutting disc upto 100 mm. Concrete within the grooved area should be removed using High performance chipper hammer featuring low weight & low vibration having single impact energy of 7.5 J, full hammering frequency of 3180 impacts/minute, maximum chiselling performance of 900 cm³/min, weighted emission sound pressure level of 94 dB (A) according to EN 60745, Triaxial vibration for chiseling in concrete 12.1m/s² according to 60745-2-6 and having weight according to EPTA procedure 01/2003 of 5.6 Kgs</p>	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[101]	<p>P/A ANTI CORROSIVE RUST REMOVER ON REINFORCEMENT :</p> <p>Providing and applying anti corrosive rust remover "Rusticide" of M/S Sunanda speciality coating pvt Ltd or equivalent approved including cleaning the reinforcement bars with wire brush or air blowing including removing of all loose particle with applying rust remover thoroughly on reinforcement bars by using cotton waste swab etc. comp. with all the required tools, tackles, labourers as required and as directed by the Engineer in charge. (Area of Concrete treated with poymer modified mortar shall be measured for payment please)</p>	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[102]	<p>P/A STEEL PROTECTIVE COATING :</p> <p>Providing and Applying Steel protective coating: The exposed and cleaned reinforcement bars shall be applied with a single component cementitious corrosion inhibiting primer which shall be applied on the surface using suitable brush. Product: Mucis Protozione Ferro Mono of Thermax (Area of Concrete treated with poymer modified mortar shall be measured for payment please)</p>	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[103]	<p>P&A POLYMER MODIFIED CEMENT MORTAR :</p> <p>Applying Corrosion Resistance single Component, polymer modified cement mortar to patch up the damaged concrete section in planks of upto 25mm thickness. Providing and applying Corrosion Resistance Single Component, polymer modified, fiber reinforced ementatious repair mortar having water powder ratio in the range of 0.16 and the mixed density of around 2.05 - 2.20 Gms/cc. The repair mortar shall achieve a minimum compressive strength of 45 MPa @ 28 days when tested as per ASTM C-109 and a flexural strength of 7 MPa when tested as per ASTM C 348. It shall achieve a minimum Adhesion Bond Strength of 2 MPa when tested on Standard Elcometer as per ASTM D 4541 - 85. The modulus of Elasticity shall be a minimum of 28 kN/mm² when tested as per BS 1881. Product: corrosion esistance single Component, polymer modified, fibre reinforced cementitious of M/s. Fosroc (Renderoc SP-40), Parex (Lanko-731) .</p>	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[104]	<p>Pro. And fixing false ceiling using Water proof Wooden Plywood Plank 9 mm Thick sections using water proof board of size 1220 mm x 1830 mm x 8.0 mm suspended by GI suspender channel of size 25 mm x 3 mm with intermediate channel og size 18 mm x 40 mm x 0.8 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm c/c and perimeter channel A of size 20 mm x 27 mm x 30 mm x 0.5 mm at edges & drops incl.paper tap sand sofit cleat, anchor fastener, scoch bolt connecting cleat, joining compound top coat on ceiling incl.making necy.opening for light fitting, diffuser etc. comp. as per detail drawing as directed Engineer in Charge.</p>	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[105]	Providing and supplying Main Table including table unite, side unite made with 19mm Thk. Plywood structure with 6mm thick venier finished corian sheet (including buffing and fabrication cost) for Top desk and as per architect drawing finished with 1.0 mm Thk. decorative laminate on outside portion & 0.8 mm Thk. liner Laminate inside as specified & approved by architect fixed with necessary fixtures and fastening (Hardware) as per architect drawing. Provide Plastic Computer Table Grommet Cable Wire Outlet Hole Cover 60mm, Key-board tray, S.S legs, Drawers with telescopic roller channels, Handle and locking arrangements with all necessary fixtures and fastening .Provide Shutters as per drawing fixed with handle, hinges, magnet, complete with bidding patties and all required hardware .Provide footrest as per drawing. All exposed edges shall be covered with required Teak wood beading Patti finished with approved melamine polishing work. Complete as per architect's drawing and as per instruction of architect & engineer in charge. (Refer drawing)	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[106]	Providing and fixing aluminium partition comprising anodized / powder-coated aluminium sections of approved make and profile, including necessary vertical and horizontal members, cleats, brackets, screws, anchors, and all required accessories, complete as directed by the Engineer-in-Charge. The partition shall be constructed with lower solid panel portion and upper glazed portion (half glass), using 5-6 mm thick clear / frosted glass fixed with approved beading and rubber gasket, including cutting, edge polishing, and proper placement. The solid portion shall be made from approved board / sheet (as specified), securely fixed within aluminium framing. The work includes all labour, materials, T&P, carriage, cutting, fitting, assembling, sealing, and finishing complete in all respects as per site requirements and instructions of the Engineer-in-Charge	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[107]	Providing and supplying a full-height storage unit measuring 2.0m (W) x 0.60m (D) x 2.10m (H), constructed with 19mm thick plywood structure. The exterior is finished with 4mm thick Veneer with melamine polish and 0.8mm thick balancing laminate, and the interior is lined with 0.8mm thick liner laminate, as per the specifications approved by the architect. The shutters are equipped with required handles, hinges, magnets, and locks. Removable plywood shelves are supported on side teakwood battens on both sides for adjustability. All exposed edges are covered with 8mm thick teakwood beading, finished with melamine polish. The unit includes all necessary hardware, fixtures, and fastenings, and the work is to be completed as per architect drawings and the instructions of the architect and Engineer-in-Charge.	NOS	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[108]	Providing and laying 60 x 60cm Antiskid Vitrified tiles 8 to 10 mm thick 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[109]	Providing and laying 60 x 60cm GTV Vitrified tiles 8 to 10 mm thick with pattern colour & Shade as detailed approve by architect (10% Dark colour tiles Pattern) 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	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[110]	Providing & laying cement concrete 1: 4 : 8 (1 Cement : 4 Coarse sand : 8 graded B.T stone aggregate 20mm nominal size) Curing comp. including cost of form work in foundation and plinth	Cum	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[111]	Providing and fixing Handle valve of approved brand (B) 25mm dia.,	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[112]	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.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[113]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Wall Hung European type W C Pan with in Built Jet, PP Soft closed seat cover, Hinges, Dual Flush cistern, fixing accessory etc.complete of size 365 x 525 x 400 mm or 375 x 520 x 400 mm including cutting cutting holes and making goods the same including labour, material, trasportation etc.complete as directed by engineer incharge.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[114]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Table top wash basin of 565 x 425 x 140 mm with hole for pillar tap with C.I or M.S brackets painted white including cutting cutting holes and making goods the same include. C.P. brass waste and waste pipes.including labour, material, trasportation etc.complete as directed by engineer incharge.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[115]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Urinal of size 355 x 340 x 535 mm connetcting with PVC waste pipe, Trap etc complete including labour, material, trasportation etc.complete as directed by engineer incharge.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[116]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Bib cock with wall flange including labour, material, trasportation etc.complete as directed by engineer incharge.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[117]	Providing and fixing toilet paper holder. (A) C.P. Brass	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[118]	Providing and fixing 600mm x 450mm bevelled edge mirrror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden pluge with C.P. brass screws and washers.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[119]	Providing and fixing C.P. brass towel rail comlete with C.P. brass brackets fixed to wooden plugs with C.P. brass scews. (B) 600mm x 20mm size	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[120]	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 of R type	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[121]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Angular stop cock with wall flange including labour, material, trasportation etc.complete as directed by engineer incharge.	Nos	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[122]	Providing and fixing window having extruded aluminum Colour Powder Coated 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 0.659 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 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	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[123]	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift. (i) Not exceeding 3 Sq.M. in area	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[124]	Providing 15mm thick mala plaster in single coat on fair on brick / concrete wall for interior plastering in C.M.1:3 (1 Cement : 3 Coars sand) incl. finishing with a floating coat on neat cement slurry	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[125]	Removing and scraping of old deteriorated plaster of any thickness fromm wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[126]	Repairing to Door / Window including dissembling from frame, wroughting, providing patti, angles, replacing / repairing stoppers - aldrops - handles etc. for proper fixing in to frame hole etc. complete for smooth operation and proper utilization including assambeling and Refixing of the same and Painting one coats (excluding priming coat) on previously painted wood and wood based surface with enamel paint, to give an even shade including cleaning the of all dirt, dust and other foreign matter. as directed by Engineer-in-charge.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[127]	Providing and laying Synroof High bond ecentrometric premium quality acrylic coating as a water proofing membrance finished which consists of a coat of bitumine primer & 80 CSM membrance in sunk slab, Terrace Slab with ultraviolet resistance and working upto any height etc. complete as directed by Engineer in charge	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[128]	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including cutting holes and making good the same but excluding fittings. (A) Vitreous China: (ii) Flat Back washbasin 550 mm x 400mm size. (i) In white colour.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[129]	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[130]	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.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[131]	Providing and fixing Fly proof galvanised S.S. wire gauge of I.S.I. gauge designation 85 G. with wire of dia. 0.56 mm to windows and elevating windows including 60 x 20 mm beading of teak wood.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[132]	Providing and fixing flush door shutters, solid core construction with frame of first class hardwood with cross board and face veneer or plywood face panels, including anodised aluminium butt hinges with necessary screws. (B) Non-decorative type and block board core anodised aluminium butt hinges in flush door shutters (2) 35 mm thick.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[133]	Providing and fixing 35 mm thick shutters for Doors, windows and clear story windows including anodised aluminium butt hinges with necessary screws. (A) Indian Teak Wood (iii) Partly panelled and partly glazed.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[134]	Providing and fixing Urinal or approved quality including connecting the Urinal with waste pipe, tap etc. complete. (A) White earthenware flat back or corner type size 430mm x 260mm x 350mm.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[135]	Scraping oil paint from steel and other metal surface and making the surface even (with Hand Scraping.)	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[136]	Painting two coat (excluding priming coat) on previously painted steel and other metal surface with enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[137]	Providing and fixing water closet squatting Pan (Indian type W.C. Pan) size 580mm (Earthwork, bed concrete, foot rest and trap to be measured and paid for separately) (A) Vitreous China. (I) Long pattern = White colour	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[138]	ONE SIDE LAMINATE ONE SIDE VENEER FINISH FLUSH DOOR . :- Providing Material & Labour charge for making Flush Door (finished size of door is 46 mm) of size 975 mm x 2400 mm considering waterproof flush door sheet of 38 mm thickness covered outer side by 1.00 mm Laminate & Inside finished with 4 mm thick veneer finished with PU polish on single sides of shutter & 1.0 mm thick laminate at other side of shutter supported by SS -316 finish hinges. All exposed framing of 62 mm x 12 mm made by teak wood bidding complete with polish. Finishing with all necessary hardware like handles, conceal mortise locks, cylinders with 6 nos of keys, stoppers, tower bolt, MS nails, SS-304 screws etc. as per details given in drawing and as per instructions of Architect/Engineer In charge. Please see the Attached Make List for Approved Makes.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[139]	Wall painting (Two coats) 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[140]	Providing and fixing powder coated aluminum standard extruded section glazed type Door of 63.50 mm x 38.10 mm x 1.95 mm or as specified drawing or as directed having Top & bottom panel of 5 mm thick coloured float glass at top including all fixtures and fastenings like glazing clips, rubber gasket, hardware like handle, tower bolt, 6 lever mortise lock etc. and labour etc. complete as directed by engineer in charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[141]	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame around, square or round bars with round headed bolts and nuts or by screws (A) Plain Grill including Primer Coat and two coats of oil paint as directed by engineer in charge.	Kg	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[142]	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 dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[143]	Providing and laying Vitrified tiles 8 to 10 mm thick in skirting risers of steps and dedo on 10 mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[144]	Providing and laying Polished Granite stone slab 18 mm (Average) thick for Doors / Windows Sill & Jambs Cladding as per design incl. full moulded round front edge in trade of steps laid on 20 mm thick cement mortar 1:6 (1 -cement : 6 coarse sand) jointed with grey cement slurry including rubbing and polishing etc. complete for Doors / Windows Sill & Jambs Cladding.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[145]	Providing and fixing PREMIUM QUALITYL HUNG EWC: (WITH CROFT SOFT CLOSE SEAT COVER) SNOW WHITE COLOUR-535 X 360 X 335 MM with integral "P" and "S" trap including jointing the tra best quality brand including providing and fixing plastic seat cover for wash down WC with CP brass hinges and rubber buffers back plastic seat and including providing 12.50 Litres low level flushing cisten with a "P" air of CI or MS bracket with complete fitting such as lead valve Sipron 15mm dia brass ball valve with polythene float CP brass handle, unions and couplings for connection with inlet outlet and overflow pipes 40mm dia porcelain enamelled flush bend, including jet spray operated with necessary valve of best quality brand including cutting holes in walls and making good the same connecting the flush bend with cistern and closet vitreous china etc. complete.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[146]	Providing and fixing PREMIUM QUALITY COUNTER WASH BASIN - CLIFF SNOW WHITE COLOUR-550 X 460 X 185 MM with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same with brass union and CP brass wall discharge pipe with flanges and cap of best quality brand, Waste Pipe for Wash basin C.P. 32 mm dia with fittings up to floor trap, 32mm dia CP brass waste coupline with CP chain and rubber plug, washer and CP brass cap complete in all respects including cutting and making good the walls RCC work as directed and making good the same etc. complete.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[147]	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe. (A) Squating plate pattern white earthenware 550mm x 300mm.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[148]	Providing and fixing screw down bib taps of following size. (B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[149]	Providing and fixing brass screw down stop tap. (A) 15mm dia.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[150]	Providing and fixing chromium plated brass half trun flush cock of approved quality including fixing in pipe line etc. complete. (ii) 25mm dia.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[151]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Health Fauset Heavy duty with hook with fitting including labour, material, trasportation etc.complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[152]	Providing and fixing 600mm x 120mm glass shelf with C.P. brass bracket and guard rail complete mixed to wooden plug with C.P. brass screws.	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[153]	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm, @ Wt. 0.643 Kg/mt with colour Powder Coated alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[154]	Providing and fixing Fly proof S. S. wire gauge of I.S.I gauge designation 85 G. with wire of dia.0.56 mm to windows and celevating windows including Anodized Alluminum Section with allu. power coated fittings and fixture etc complete.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[155]	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. (A) 100mm x 100mm size P type.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[156]	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal 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 slabe 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 455mmx 610mm and 450mm deep for single pipe line.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[157]	Providing and Fixing Heavy Duty Door Closer as directed by engineer in charge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[158]	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.	Kg	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[159]	Providing and laying cement concrete work 1:1.5:3 (1-Cement : 1.5- Coarse sand : 3- graded stone aggregates 20 mm nominal size) and curing complete including cost of formwork and reinforcement for reinforced concrete work in Superstructure Members.	Cu.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[160]	Providing and fixing wooden panneling made of framing the skeleton (plywood frame structure) with 18mm + 18mm thick MR grade plywood for vertical and horizontal plywood (patti) one side cover with 6mm thick MR grade plywood for grooving as per design.Fixing properly without any air gap and finishing with selcted 1.00 mm thick laminate.Before installation, make hole/face plate for conduit pipes of eletcrical/networking cables with openable stud from partition Including all materials and labour etc.complete as per detail drawing and instruction of engineer-in charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[161]	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including Consultancy Services (Structural desing Proof checking of desing site Engineer Structure Engineer deployment etc.) Etc Complete as directed by Engineer in charge .	Kg	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[162]	Providing and fixing retro Reflective Hi Intensity Micro Prismatic Grade Board using 2mm Aluminum / 4mm ACP, angle iron 75 x 75 x 6mm. Descaling and degreasing the board as per requirement using epoxy reflective process by screen painting as directed etc. complete including transporting and fixing in C.C. 1:2:4 with necessary excavation curing etc. complete as per I.R.C. 67-2012 design. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class B Type-4 (MDR/ODR) retro reflective sheeting	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[163]	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. (B) Dense or Hard soil	Cu.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[164]	Providing and laying cement concrete 1:4:8 (1- Cement : 4- Coarse sand : 8-Graded Brick bats aggregate 40mm normal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	Cu.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[165]	Repairing to Door / Window including disassembling from frame, wroughting, providing patti, angles, replacing / repairing stoppers - aldrops - handles etc. for proper fixing in to frame hole etc. complete for smooth operation and proper utilization including assambeling and refixing of the same as directed by Engineer-in-charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[166]	Providing and laying Synroof High bond ecentrometric premium quality acrylic coating as a water proofing membrance finished which consists of a coat of bitumine primer & 80 CSM membrance in sunk slab, Terrace Slab with ultraviolet resistance and working upto any height etc. complete as directed by Engineer in charge	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[167]	Painting two coats 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[168]	Providing 15mm thick cement plaster in single coat on Rough (Similar) side of single or half brick walls for interior plastering upto first Floor and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[169]	Distempering with dry distemper of approved brand and manufacture (Three coats) and of required shade on wall surfaces of given an even shade, over and including a priming coat of whitening after thoroughly brooming the surface free from mortar dropping and other foreign matter on Ceiling.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[170]	Providing and fixing wsh 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) (Seal and cover to be measured and paid for separately) (A) vitreous China Pattern : (i) in white colour	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[171]	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same but excluding fittings. (A) Vitreous China: (ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[172]	Providing and fixing extruded aluminum window having extruded aluminum Colour Powder Coated section frame main outer size 127mm x 38.10mm x 1.35mm, @ Wt.1.384 Kg/mt, horizontal Four track member size 122.20mm x 31.75mm x 1.10mm @ Wt. 1.205 Kg/mt, vertical member of size 122.20mm x 31.75mm x 1.50mm, @ Wt. 1.398 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, @ 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.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[173]	Providing PVC Flexible Waste Pipe 60cm Long and 25mm Dia. for Urinal as Directed by Engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[174]	Carring out plinth treatment to post construction /existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 %concentration inclusive of one litre chemical emulsion application at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[175]	Providing and fixing powder coated aluminum standard extruded section glazed type Door of 63.50 mm x 38.10 mm x 1.95 mm or as specified drawing or as directed having Top & bottom panel of 5 mm thick coloured float glass at top including all fixtures and fastenings like glazing clips, rubber gasket, hardware like handel, tower bolt, 6 liver mortise lock etc. and labour etc. complete as directed by engineer in charge.	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[176]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Wall Hung European type W.C. Pan with in Built Jet, PP Soft closed seat cover, Hinges, Dual Flush cistern, fixing accessary etc. complete of size 365 x 525 x 400 mm or 375 x 520 x 400 mm including cutting cutting holes and making goods the same including labour, material, trasportation etc. complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[177]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Table top wash basin of 565 x 425 x 140 mm with hole for pillar tap with C.I. or M.S. brackets painted white including cutting cutting holes and making goods the same include C.P. brass waste and waste pipes including labour, material, transportation etc. complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[178]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Urinal of size 355 x 340 x 535 mm connecting with PVC waste pipe, Trap etc. complete including labour, material, transportation etc. complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[179]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Bib cock with wall flange including labour, material, transportation etc.complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[180]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Angular stop cock with wall flange including labour, material, transportation etc.complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[181]	Providing & Fixing Premium quality approved make like Jaquar / ESSCO or equivalent Flush Valve dual flow 40 mm size having Concealed body with Exposed shut of provision and 100 mm square plate (3 to 6 liter per flushing) including labour, material, transportation etc.complete as directed by engineer incharge.	No.	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[182]	Providing and fixing eco-friendly light weight calcium silicate falseceiling tiles having Tegular edge & 15 mm Thick Densified edgeson the Tile Periphery for Extra Strength The Light weight calciumsilicate ceiling tiles shall have, light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance andalso having thermal conductivity0.043° w/m KC.for the bestthermal Insulation . The Light weight calcium Silicate tile shall beof approved texture Fine fissured/ Spintone/Cosmos having NRCvalue of 0.5 & Globe having NRC value of 0.75 NRC or equivalentof size 595 X 595 mm to be laid on true horizontal levelsuspended inter locking metal grid of hot dipped galvanized steelsections (galvanizing @120 grams per sqm including both side) consisting of main "T" runner suitably spaced at joints to getrequired length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross "T" of size24X28mm made out of 0.33mm (Minimum) sheet spaced1200mm along spaced between main "T" at 600mm centre tocentre to form agrid of 1200X600mm and secondary cross "T" oflength 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mmpanel to form grid of size 600X600mm resting on peripherywalls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet withthe help of rawl plugs at 450mm centre to centre with 25mm longdry wall screws @ 230mm interval and laying 15mm thickDensified edges light weight calcium silicate ceiling tiles ofapproved texture (Fine Fissured/Cosmos/Spintone) in the gridincluding, cutting /making opening for services like diffusers,	Sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[183]	Distempeing (Two coats) with oil bound distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth.	Sq.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[184]	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 50Mt.lead.	Cu.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[185]	Providing and Fixing Pre-cast concrete kerb stone of gray cement based concrete block 30cm length 30cm height and 15cm thick of M200 grade concret as per approved design and including excavation for fixing in proper line and level filling the joint with CM 1:3 (1cement:3fine sand) etc complete.	Rmt	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Item No.	Item of work	Unit	As per MoRTH / Road / Bridge / Building Booklet Specification
1	2	3	4
[186]	Providing and Fixing 18 mm thick Plywood SHUTTER for Cupboard or Below platform shutter using 18mm thick TERMITE PROOF PLY (GREENPLY OR EQUIVALENT) WITH BOTH SIDE LAMINATE & WOODEN BEADING ON PERIPHERY, Exposed face should be covered with 1.0 mm thick laminate of approved quality and pattern, colour, texture the rest of the inside surfaces, shelves etc, shall be finished with 0.80 mm thick Sqm white laminates of approved make, wooden framing shall be used including alround framing of 19 mm X 12 mm. teak wood member at all borders and in the centre where ever, all the sides of the shutter should be covered with teakwood battens and provided with necessary framing, best quality SS channels for sliding, SS finished hinges, hadles, megnet, deadlock etc. as approved and directed by Engineer-In-Charge	sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[187]	Providing and laying cement concrete 1:3:6 (1-Cement: 3- coarse sand: 6- hand broken stone aggregates 40 mmnominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	Cu.m	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[188]	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M 300 pnumatic compressed vibrated mechanically and as per approved design Confirming to IS 15658 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC SP 63-2018 etc. Complete	sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[189]	Applying two coats of two component dampproof coating of approved brand and manufacture 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 as per instruction of Engineer In Charge	sqm	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[190]	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy erected on existing hook or clamp with earthing. (Make shall be approved by Engineer in charge)	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[191]	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 200mm with 1350RPM Cat.II	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[192]	Providing following type of Modular Type Accessories mounted with PVC /metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate, modules erected with necessary connections as per site situation directed by Engineer In charge. (5) Electronic hum Free steps EME Fan regulator, Cat.III	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[193]	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC /Metallic concealed /open box with single mounting base frame covered with textured/metallic/white front plate, modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories, Catill	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.
[194]	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt, LED driver efficiency > 85% (fitting required LM-79 & LM-80 Certificates) (NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (iii) 18-20 Watts, Surge -2KV, IP-20, conventional 4 feet, Cat-III	Each	As per Separate Sheet Attached.The Item should be execute as per item description and as per the instruction of engineer in charge.

Deputy Executive Engineer
R & B Sub Division
Nadiad

Executive Engineer
Kheda R & B Division
Nadiad