

Name of work :- Construction of School Room in Vadi Shala 3 at village Nandana Under 15th F.C. Ta. Kalyanpur.  
Dist. Devbhoomi Dwarka.

### **BILL OF QUANTITIES**

It. No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate		Amount
				In figures	In words	
1	2	3	4	5	6	7
1	Excavation for foundation In Dense or Hard soil up to all depth including sorting out and stacking of useful materials and disposing off the excavated stuff . with all lead and lift.	7.29	Cum	157.32	Rupees One Hundred Fifty Seven And Paise Thirty Two Only	1146.86
2	Excavation for foundation in Hard Murrum upto all depth including sorting out and stacking of useful materials and disposing of the excavated stuff with all lead and lift.	7.29	Cum	267.08	Rupees two Hundred Sixty Seven And Paise Eight Only	1947.01
3	Providing and laying cement concrete 1:4:8(1-Cement : 4 Coarse sand : 8 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of formwork in Foundation and Plinth.	8.12	Cum	2769.69	Rupees Two Thousand Seven Hundred Sixty Nine And Paise Sixty Nine Only	22489.88
4	White Stone Bela masonry block in course in foundation and plinth with stone of approved quality in Cement Mortar 1:5 (1-Cement :5-coarse sand) including racking the joints etc. complete.	11.27	Cum	6470.13	Rupees Four Thousand Four Hundred Seventy And Paise Thirteen Only	72918.36
5	Providing and laying ordinary cement concret 1:3:6 (1- cement :3 coarse sand :6 graded stoneaggregates 20 m.m. nominal size) and curing etc.complete including the cost of formwork in wall Caps/Coping.	2.99	Cum	4130.19	Rupees Four Thousand One Hundred Thirty And Paise Nineteen Only	12349.26
6	Filling available excavated earth (excluding rock) in trenches, Plinth, sides of foundations etc. in layers not exceeding 20cm. in depth, consolidating each deposited layer by ramming and watering.	8.34	Cum	136.91	Rupees One Hundred Thirty Six And Paise Ninety One Only	1141.82
7	Providing and laying Controlled cement concrete M-150 exposed work with curing etc. complete including the cost of formwork but excluding the cost of reinforcement for R.C.C work in BEAMS for all Cross sectional Area	5.62	Cum	9166.35	Rupees Nine Thousand One Hundred Sixty Six And Paise Thirty five Only	51514.88

1	2	3	4	5	6	7
8	White Stone Bela mesonry block in course in superstructure with stone of approved quality in Cement Mortar 1:5 (1-Cement :5- course sand) including packing the joints etc. complete.	13.39	Cum	6507.94	Rupees Six Thousand Five Hundred Seven And Paise Ninety Four Only	87141.31
9	Providing and laying ordinary cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) for R.C.C lintel including finishing smooth with,curing etc. complete including the cost of formwork but excluding the cost of reinforcement.	0.92	Cum	10217.23	Rupees Ten Thousand two Hundred Seventeen And Paise Twenty three Only	9399.85
10	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) for R.C.C Chhajjah not exceeding 10cm. thickness upto floor two level including finishing the exposed surface with cement mortar 1:3 to give a smooth and even surface centering and formwork and curing etc. complete excluding the cost of reinforcement.	0.56	Cum	6672.73	Rupees Six Thousand six Hundred Seventy two And Paise Seventy three Only	3736.72
11	Providing and Laying ordinary cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) exposed work with curing etc comp. including the cost of formwork but excluding the cost of reinforesement for R.C.C work in Slabs for all thickness.	5.97	Cum	7454.03	Rupees Seven Thousand four Hundred Fifty Four And Paise Three Only	44500.55
12	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level.	1212.73	Kg	77.28	Rupees Seventy Seven And Paise Twenty Eight Only	93719.77
13	Providing 15mm thick cement plaster in single coat on Rough (similar ) sides of single or half brick wall for interior plastering up to floor two level finished even and smooth in(I) Cement mortar 1:3 (1 cement : 3 sand)	188.58	Sqm	180.39	Rupees One Hundred Eighty And Paise Thirty Nine Only	34017.94
14	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20mm (average) base of cement mortar 1:6 ( 1 ement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for light shade	39.78	Sqm	1476.53	Rupees One Thousand Four Hundred Seventy six And Paise Fifty Three Only	58736.36

1	2	3	4	5	6	7
15	White Washing with lime on wall surface (two coats) to give an even shade including thoroughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter.	188.58	Sqm	12.69	Rupees Twelve And Paise Sixty Nine Only	2393.08
16	Wall panting (two coats) with plastic emulsion paint of approved brand and manufactures on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matters.	188.58	Sqm	84.36	Rupees Eighty Four And Paise Thirty Six Only	15908.60
17	Provoding 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 alluminium butt hinges with necessary screws. (B) Non-decorative type and block board core anodised alluminium butt hinges in flush door shutters 35 mm thick.	1.89	Sqm	1829.73	Rupees One Thousand Eight Hundred Twenty Nine And Paise Seventy Three Only	3458.18
18	Providing and fixing machine cut free edge machine polished Kotah stone slab 18mm thick ( single peace not more than 150cm ) for Doors/Windows sill and jambs cladding as per design including full moulded round edge and 1 cm noising and laid on 20 mm thick cement mortar 1:6 (1-cement:6-sand) jointed with grey cement slurry including rubbing and polishing etc. complete.	5.35	Sqm	286.14	Rupees two Hundred Eighty Six And Paise Fourteen Only	1530.84
19	Providing and fixing Windows having extruded alluminium Colour anodised section frame main outer size 63.5mm x 38.1mm x 1.95mm ( of Jindal Section No. 4605, @ Wt. of 1.094 Kg./mt.) horizontal two Track member size 61.85mm x 31.75mm x 1.20mm ( of Jindal Section No. 8687, @ Wt. 0.695 Kg./mt.), Vertical member of size 61.85mm x 31.75mm x 1.30mm ( of Jindal Section No. 8758, @ Wt. 0.659 Kg./mt.) with Sliding shutters of Horizontal mamber size 40mm x 18mm x 1.29mm ( of Jindal Section No. 8949, @ Wt. of 0.456 Kg./mt.) Vertical member of size 40mm x 18mm x 1.29mm ( of Jindal Section No. 8948, @ Wt. of 0.457 Kg./mt.) with 5mm thick transparent bronze colour tinted float glass with powder coated alluminium fittings and fixtures and transparent silicon sealant Glass fixing to frame as per details etc.	4.32	Sqm	1713.69	Rupees One Thousand Seven Hundred Thirteen And Paise Sixty Nine Only	7403.14

1	2	3	4	5	6	7
20	Providing and laying broken china mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. as directed.	36.02	Sqm	779.69	Rupees Seven Hundred Seventy Nine And Paise Sixty Nine Only	28084.43
<b>TOTAL OF CIVIL Work - A</b>				<b>Rs.</b>		<b>553538.84</b>
	<b>PART 'B' ELECTRIC WORK:</b>					
21	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete Cat. II	9.00	Pt	329.26	Rupees Three Hundred Twenty Nine And Paise Twenty six Only	2963.34
22	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete Cat. II	6.00	Pt	579.74	Rupees Five Hundred Seventy Nine And Paise Seventyt Four Only	3478.44

1	2	3	4	5	6	7
23	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete Cat-II	1.00	Pt	430.26	Rupees Four Hundred Thirty And Paise Twenty six Only	430.26
24	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. II	3.00	Pt	221.19	Rupees Two Hundred Twenty One And Paise Nineteen Only	663.57
25A	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. (9) 16 Amp. SP one way switch Cat. II	1.00	No.	125.24	Rupees One Hundred Twenty Five And Paise Twenty four Only	125.24
25B	(10) 6/16Amp. Universal socket Cat. II	1.00	No.	134.33	Rupees One Hundred Thirty four And Paise Thirty Three Only	134.33
26	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (a)20 mm	5.00	Mtr	23.23	Rupees Twenty Three And Paise Twenty Three Only	116.15

1	2	3	4	5	6	7
27	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) With medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	20.00	Mtr	78.78	Rupees Seventy Eight And Paise Seventy Eight Only	1575.60
28	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (b) 2 wire 6 sq. mm	10.00	Mtr	140.39	Rupees One Hundred Fourty And Paise Thirty Nine Only	1403.90
29	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-II	2.00	No.	986.77	Rupees Nine Hundred Eighty Six And Paise Seventy Seven Only	1973.54
30	Call bell gong type suitable for 230 volts, 50 c/s. AC supply complete Erected	1.00	No.	40.40	Rupees Fourty And Paise Fourty Only	40.40

1	2	3	4	5	6	7
31	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 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-II	5.00	No.	238.36	Rupees Two Hundred Thirty Eight And Paise Thirty Six Only	1191.80
32	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection, Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (ii) 5 to 8 watts Cat-II	3.00	No.	80.80	Rupees Eighty And Paise Eighty Only	242.40
33	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat-II	2.00	No.	91.91	Rupees Ninety One And Paise Ninety One Only	183.82
34	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (b)40 Amp.	1.00	No.	253.51	Rupees Two Hundred Fifty Three And Paise Fifty One Only	253.51

1	2	3	4	5	6	7
35	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iii)8 way	1.00	No.	1152.41	Rupees One Thousand One Hundred Fifty two And Paise Fourty one Only	1152.41
36	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP Cat-II	1.00	No.	1627.11	Rupees One Thousand Six Hundred Twenty Seven And Paise Eleven Only	1627.11
37	Providing and erecting Pipe type earthing with 40 mm dia 2.5 mtr long 'B' grade G.I. pipe with necessary coupling buch buried in specially prepared earth pit & G.I. earth wire of 8 SWG erected & connected as directed (For panel)	1.00	No.	823.15	Rupees Eight Hundred Twenty Three And Paise Fifteen Only	823.15
38	For using salt and charcoal / coke as required for pipe type earthing.	1.00	No.	171.70	Rupees One Hundred Seventy One And Paise Seventy Only	171.70
39	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]	6.00	No.	1596.81	Rupees One Thousand Five Hundred Ninety six And Paise Eighty One Only	9580.86
40	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	6.00	No.	108.07	Rupees One Hundred Eight And Paise Seven Only	648.42
41	Providing Fan clamp of 30 x 5 mm flat of required length & 10 mm M.S. Bolt & Nuts erected with necessary hook of 10 mm M.S. Round Bar.	6.00	No.	98.98	Rupees Ninety Eight And Paise Ninety Eight Only	593.88



1	2	3	4	5	6	7
42	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	6.00	No.	18.18	Rupees Eighteen And Paise Eighteen Only	109.08
<b>TOTAL OF ELECTRIC Work - B</b>				<b>Rs.</b>		<b>29482.91</b>
<b>TOTAL OF ELECTRIC + CIVIL WORK</b>				<b>Rs.</b>		<b>583021.75</b>
		Rupees in words: <b>Five Lacks Eighty Three thousand Twenty One Rupees and Seventy five Paise Only</b>				

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

Estimated amount put to tender	Estimated amount put to tender
Deduct.....% below.....	Add.....% Above.....
Net	Net
In words	In words

1	2	3	4	5	6	7
<b>BOQ NOTES:-</b>						
1	All works shall be carried out as per latest MORTH Specification Booklet and other specification of Division as directed.					
2	All Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site moisture, weather etc.					
3	Bidders are advised to visit the site & make himself / herself aware of the scope & specification of the work to be done & of conditions and other factors bearing on the execution of the work before on line submission of his / their bids. Once the bid is finalized, under no circumstances arguments for crust deficiency / additional / altered works will be heard until & unless Engineer in charge deem so. Engineer in charge shall have right to reject & decision of Engineer in charge shall be final & binding.					
4	1.00 % of Construction cost shall be deducted form Bill. Amount of Contract as per the Building and other Construction worker's welfare cess Act - 1996 (Labour & Employment Department Letter No. CWA - 2004 - 1831 - M (3). Dt. 9-12-05, Notification of Labour & Employment Department Dtd. 03-01-05 and Labour & Employment Department letter No. CWA / 2004-841-M(3), Dt. 14-12-05).					
5	Testing of material shall be done as per statement attached with specification. The material should be tested in GERI or Private laboratory approved by Govt. of Gujarat. Bill for testing charges should be paid by Executive Engineer and computed after deducting the cost of materials to be supplied by the Govt. and shall be recovered from the contractor's running bill as per Govt., R&B Department No. TNC-1085/(4)/C dtd 20-12-91.					
6	For Tender cost more than Rs. 2.50 lacs, 2% (percent) Tax deduction at source shall be made (which includes 1% (one percent) for GST & 1% (one percent) for CGST) as per Govt. of Gujarat, Finance Deptt.'s Circular No. : GST/1017/ 1097/GST Cell, Dtd. 15/09/2018 & above Circular details to follows.					
7	In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.					
8	The contractor shall exhibit a board as per Government Circular No. Vernacular TNC/1090/ 24/S dated 05.03.2011 with details specifications and details of works and amount involved at site at his own cost as directed by Engineer-in-charge.					
9	GST will be paid extra as per Govt. Emendment.					
10	GST and Income tax will be deducted at source while making payment of bills.					

**Signature of Contractor**

**Deputy Executive Engineer**  
**Panchayat R & B Sub-Division**  
**Dwarka**

**Executive Engineer**  
**R & B Panchayat Division Devbhoomi Dwarka**  
**Khambhaliya**