

**BHAWANIGARH - NABHA - GOBINDGARH BOT ROAD PROJECT**

**BILL OF QUANTITIES**

**ADMN. BUILDING ON TOLL PLAZA - BHAWANIGARH - NABHA SECTION**

**PART-I : CIVIL WORKS**

SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
	<b>S.H. I EARTH WORK</b>				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manually means over areas ( not exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan ) including disposal of excavated earth, lead upto 50 m and lift upto 1.5m, disposal earth to be levelled and neatly dressed .				
	(a) All kinds of soil.	235.27	One Cum		
1.2	. Filling available excavated earth(Excluding rock) in trenches,plinth sides of foundation etc in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming & watering, lead upto 50m & lift upto 1.5m.	133.00	One Cum		
1.3	Supplying and filling in plinth and basement with fine sand under floors including watering, ramming, consolidating and dressing complete.	22.00	One Cum		
			<b>Sub Total</b>		
	<b>S.H. II CONCRETE WORK</b>				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level				
	(a) 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	59.00	One Cum		
2.2	Providing and laying cement concrete in kerbs, steps and generator foundation and the like at or near ground level excluding the cost of centring, shuttering and finishing				
	(a) 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.00	one cum		

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2.3	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	33.00	one sqm.		
2.4	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	33.00	one sqm.		
2.5	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	69.00	one sqm.		
2.6	Brick edging 7cm wide 11.4cm deep to plinth protection with bricks of class designation 75 including grouting with cement mortal 1:4 (1cement : 4 fine sand)	69.00	meter		
			<b>Sub Total</b>		
	<b>S.H. III REINFORCED CEMENT CONCRETE</b>				
3.1	Providing and laying in position specified grade of reinforcement cement concrete excluding the cost of centring, shuttering, finishing and reinforcement- All work upto plinth level				
	a) 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size )	20.50	One Cum		
3.2	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree , landing, balconies,shelves, chajjas, lintels, bands, plain windows sills, staircases and spiral stair cases upto floor five level excluding cost of centering , shuttering , finishing and reinforcement 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size )	3.00	One Cum		

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3.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree , landing, balconies,shelves, chajjas, lintels, bands, plain windows sills, staircases and spiral stair cases upto floor five level excluding cost of centering , shuttering , finishing and reinforcement 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size )	8.00	One Cum		
3.4	Reinforced cement concrete work in walls(any thickness)including attached pilasters,buttresses,plinth and string courses ,fillets,columms,pillars,piers,abutments,posts,and struts etc.upto floor five level excluding cost of centering , shuttering , finishing and reinforcement 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size )	13.73	One Cum		
3.5	Centering and shuttering including strutting, propping etc. and removal of form for:				
	(a) foundations, footings, bases of columns etc., for mass concrete	37.00	One sqm		
	(c) suspended floors, roofs, landings, balconies and access platform	15.00	One sqm		
	(d) lintels, beams, plinth beams, girders, bressumers and cantilevers	76.00	One sqm		
	(e) columns, pillars, piers, abutments, posts and struts	160.00	One sqm		
	(f) Shelves (cast in situ)	5.00	One sqm		
3.6	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
	(a) Thermo-mechanically treated bars.	4071.00	One Kg.		
3.7	Add or deduct for plaster drip course /groove in plastered surface or moulding to R.C.C. projections.	20.00	One meter		
			<b>Sub Total</b>		
	<b>S.H. IV BRICK WORK</b>				
4.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand ).	98.00	One Cum		

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4.2	Brick work with F.P.S. bricks of class designation 75 in cement mortar 1:6 (1 cement : 6 coarse sand ) in superstructure above plinth level upto floor V level .	83.00	One Cum		
4.3	Half brick masonry with bricks of class designation 75 in cement mortar 1 : 3( 1 cement: 3 coarse sand ) in superstructure above plinth level upto floor V level.	28.00	One Sqm		
4.4	Extra for providing and placing in position 2 Nos. 6mm dia M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	28.00	One Sqm		
			<b>SUB TOTAL</b>		
	<b>SH : V STEEL WORK</b>				
5.1	Providing and fixing ISI marked steel glazed doors, windows and ventilators side/top/centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel section, joints mitred and flash butt welded with sash bars tenoned and riveted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6(1 cement:3 coarse sand:6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metals sash putty of approved make and a priming coat of approved steel primer ; excluding the cost of metal beading and other fitting except necessary hinges or pivots complete as per approved design.	313.00	Kg.		
5.2	Providing and fixing pressed steel door frames conforming to ISI: 4351 manufactured from commercial mild steel sheet of 1.25mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50X25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge.				
	(a) Profile B	88.00	Mtr		

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SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
5.3	Structure steel work welded in builtup section, trusses and framed worke including cutting, hoisiting, fixing in position and applying a priming coat of approved steel primer including M.S round holding down bolts and nuts and washer plate all complete.	637.00	1 Kg		
5.4	Steel work in built up tubular trusses including cutting, hoisting fixing in positing and applying a priming coat of approved steel primer, welded and bolted including M.S. round holding down bolts with nuts and washer plates complete as per approved design and drawings.				
a)	Hot finished welded type tubes (Payment shall be made on CGI Sheet cover area)	337.00	Sqm		
5.5	Providing and fixing M.S. grills of required pattern in frames of windows etc with M.S. flats, square or round bars etc all complete.				
(a)	Fixed to steel windows by welding	92.00	kg		
5.6	Fancing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and and post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I.Staples, turn buckles etc complete. (Cost of posts, struts, earth work and concrete work to be paid for seperately) :- Payment to be made per metre cost of total length of barbed wire used.				
a)	With G.I. barbed wire	912.00	metre		
5.7	Supplying at site Angle iron post & strut of required size including botton to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10mm etc complete.	800.00	kg		
			<b>SUB TOTAL</b>		
	<b>VI WOOD WORK</b>				
6.1	Providing and fixing ISI marked flush door shutters non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
(a)	35 mm thick with screws for butt hinges.	34.33	One Sqm		
6.2	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured )	34.33	One Sqm		
6.3	Providing and fixing ISI marked oxidised M.S. Sloiding door bolts with nuts etc. complete:-				
(a)	300X16mm	12.00	Each		
(b)	250X16mm	5.00	Each		

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SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
6.40	Providing and fixing ISI marked oxidised M.S. tower bolts black finished, (Barrel type) with necessary screws.				
	(a) 250X10mm	15.00	Each		
	(b) 200X10mm	33.00	Each		
	© 150X10mm	28.00	Each		
6.5	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete.				
	(a) 125mm	32.00	Each		
	(b) 100mm	23.00	Each		
6.6	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete. (a) 300mm weighing not less than 200 gms.	23.00	Each		
			<b>SUB TOTAL</b>		
	<b>VII ALUMINIUM WORKS</b>				
7.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS:733 and IS: 1285, fixed with raw/plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. Aluminium strap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):				
	For fixed portion				
	i) Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC15)	27.40	kg		

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SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for dinging of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).				
	i) Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC15)	12.80	kg		
7.2	Providing and fixing Aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	(a) Singl rubber stopper.	15.00	Each		
7.3	providing and fixing galazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer- in - charge. (Cost of aluminium snap beading shall be paid in basic item) (a) With float glass panes of 5.50mm thickness	12.12	sqm		
			<b>Sub Total</b>		
	<b>SH : VIII FLOORING</b>				
8.1	Cement concrete flooring 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate ) finished with a floating coat of neat cement including cement slurry but excluding cost of nosing of steps etc. complete.				
	(a) 40 mm thick with 20 mm nominal size stone aggregate.	95.00	One sqm.		
8.2	Providing and fixing 1st quality ceramic glazed tiles confirming to IS : 13753 of minimum thickness 5mm of approved make like NITCO, ORIENT, SOMANY KAJARIA , or equivalent make in all colours, shades except begundy, bottle green, black of any size as approved by Engineer-in-charge in skirting , riser of steps and dados over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand ) and jointing with grey cement slurry @3.3 kg per sqm including pointing in white cement mixed with pigment of matching shades complete.	51.00	One Sqm		

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SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
8.3	Providing and laying rectified Glazed ceramic floor tiles 300mmX300mm (thickness to be specified by manufacturer) of 1st quality confirming to IS : 15622 of approved make in colours such as white, Ivory, grey, Fume Red brown laid on 20mm thick cement mortar 1:4 (1 cement :4 coarse sand ) including grouting the joints with white cement matching pigment etc. complete.	65.00	One Sqm		
8.4	Providing and laying rectified Glazed ceramic glazed tiles(thickness to be specified by the manufacturer) of 1st quality confirming to IS : 15622 of approved make in colors such as white, Ivory, grey, Fume red brown in skirting , riser of steps and dados over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand ) and jointing with grey cement slurry @3.3 kg per sqm including pointing in white cement mixed with pigment of matching shades complete.	4.16	One Sqm		
8.5	Providing and Fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut kitchen platform, vanity counter, window sill facias and similar location of required size of approved shade, colours and textured laid over 20mm thick base cement mortar 1:4 (1 cement :4 coarse sand ) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give gloss finish etc. complete at all levels.				
	(a)Raj Nagar Plain marble/Udaipur green/Zebra black marble (Area of slab over 0.50 sqm)	10.00	One Sqm		
8.6	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	Marble work	20.40	metre		
8.7	Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand)				
	a) Ordinary cement without any pigment	56.00	sqm		
8.8	Precast terrazo tiles 22mm thick with graded marble chips of size upto 12mm in skirting and risers of steps not exceeding 30 cm in height on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with tiles of :				
	a) Ordinary cement without any pigment	5.37	Sqm		
8.9	Cement plaster skirting (up to 30 cm height) with cement mortar 1:3 (1 cement : 3 coarge sand) finished with a floating coat of neat cement.				
	a) 18 mm thick	7.00	Sqm		
			<b>Sub Total</b>		

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SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
	<b>SH : IX ROOFING</b>				
9.1	Supply & Installation of precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT) thick Zinc coating 120 gsm as per IS: 277 in 240mps steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 meters or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5 x 55 mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with shite lead complete upto any pitch in horizontal/vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	337.00	sqm		
9.2	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm +/-5% total coated thickness (TCT) thick Zinc coating 120 gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling / self tapping screws or with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete:				
	a) Ridges plain (500 - 600 mm)	26.23	meter		
9.3	Providing and fixing at all height false ceiling including providing & fixing of frame work made ogf special sections power pressed from M.S sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flangers of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out  of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filter, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, frills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting with:				
	i) 12.5 mm thick tapered edge gypsum board conforming to IS: 2095- Part I	37.00	sqm		

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9.4	Extra for pending & fixing wind ties of 40x6mm that iron section	262.00	metre		
			SUB TOTAL		
	<b>SH : IX FINISHING</b>				
10.1	12mm cement plaster of mix 1:6 (1 cement :6 fine sand )	547.00	One Sqm		
10.2	15 mm thick cement plaster on the rough side of single or half brick wall of mix 1:6 (1 cement :6 fine sand ).	523.00	One Sqm		
10.3	6 mm plaster to ceiling and other exposed unfinished RCC surfaces of mix 1:3 (1 cement: 3 fine sand).	34.00	One Sqm		
10.4	12mm cement plaster finished with a floating coat of neat cement in mix 1:3 (1 cement :3 fine sand )	23.00	One Sqm		
10.5	Whitewashing with lime to give even shade (a) on new work(Three or more coats	742.00	One Sqm		
10.6	Finishing walls with water proofing cement paint "Snowcem - plus " of M/s Snowcem India Ltd. Or equivalent of required shade :				
	(a) New work ( two or more coats applied @ 3.84 kg / 10sqm )	201.00	One Sqm		
10.7	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade.				
	(a) Two or more coats on new work.	84.00	One Sqm		
10.8	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	(a)Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	375.78	One Sqm		

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	<b>SH : X SANITARY</b>				
11.1	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 liters low level white PVC flushing cistern with manually control device(Handle lever) conforming to IS 7231 with all fittings & fixtures including jet all complete including cutting and making good the wall and floor wherever require.				
	(a) W.C. pan with ISI marked white solid plastic seat and lid.	2	One Sqm		
11.2	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap. 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:				
	i) White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests	1	each		
11.3	Providing and fixing white vitreous china flat back or half stall urinal of 580x380x350 mm with white PVC automatic flushing cistern, Parryware/Hindware/Seabird/Orient (coral) with fittings, standrad C.P. brass flush pipe, spreaders with unions and clamps ( all in C.P.brass ) with waste fitting as per IS:2556,C.I.trap with outlet grating and other couplings in C.P.brass including painting of fittings and brackets, cutting and making good the walls and floors wherever required.				
	(a) Range of two half stall urinals with 10 litres P.V.C. automatic flushing cistern.	1	Each		
11.4	Providing and fixing wash basin with C.I./M.S. brackets, 15 mm C.P. brass pillar taps, Kingston/Gem/Techno/Parko, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	(a) Flat back wash basin size 630X450mm with pair of 15mm CP brass pillar taps.	3	Each		
11.5	Providing and fixing Stainless Steel A ISI 304 ( 18/8) kitchen sink as per I.S. 13983 with C.I. Brackets and stainless steel plug 40 mm including painting of fittings and brackets , cutting and making good the walls wherever required :- Kitchen sink without drain board				
	a) 610X510 mm bowl depth 200mm	2	Each		

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11.6	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				
	(a) 40 mm dia.	2	Each		
	(a) 32 mm dia.	3	Each		
11.7	Providing and fixing 600X450mm bevelled edges mirror of superior glass (of approved quality ) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	3	Each		
11.8	Providing and fixing soil ,waste, and vent pipes :Sand cast iron S&S pipe as per IS 1729.				
	(a) 100 mm dia	13	One Metre		
	(b ) 75 mm dia	15	One Metre		
11.9	Providing and filling the joints with spurn yarn cement slurry and cement mortar 1:2 (1cement:2fine sand) in SCI /CI pipes				
	(a) 75mm dia	8	Each		
	(a) 100 mm dia	4	Each		
11.10	Providing and fixing MS holder bat clamps of approved design to sand cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.				
	(a) For 100mm dia. Pipe	8	Each		
	(b) For 75 mm dia. Pipe	6	Each		
11.11	Providing and fixing heel rest sanitary bend				
	(a) 100 mm dia. Sand cast iron S&S	3	Each		
	(a) 75 mm dia. Sand cast iron S&S	8	Each		

**BHAWANIGARH - NABHA - GOBINDGARH BOT ROAD PROJECT**  
**BILL OF QUANTITIES**  
**ADMN. BUILDING ON TOLL PLAZA - BHAWANIGARH - NABHA SECTION**  
**PART-I : CIVIL WORKS**

SL.NO.	Description of Items	Qty.	Unit	Rate (Rs.) excluding tax in figures and words	Amount(Rs.) in figures and words
11.12	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete:				
	(a) 100 x 100 x100 mm Sand cast iron S&S	2	Each		
11.13	Providing and fixing terminal guard :				
	(a) 100 mm dia. Sand cast iron S&S	3	Each		
11.14	Providing and fixing Collar:				
	(a) 100 mm dia. Sand cast iron S&S	8	Each		
11.15	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fitting of diameter:				
	(a) 100mm.	12	Each		
	b) 75 mm	8	Each		
11.16	Providing and fixing MS stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter:				
	(a) 100mm.	6	Each		
11.17	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the wall and floors:				
	(a) 100mm inlet and 75mm outlet Sand cast iron S&S as per IS 3989	7	Each		
	(b) 100mm inlet 100mm outlet Sand cast iron S&S as per IS 3989	4	Each		
			<b>Sub Total</b>		
	<b>SH : XI Drainage</b>				

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12.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. Complete				
	(a) 100mm dia	14	One Metre		
	(b) 150 mm diameter	40	One Metre		
12.2	Providing and laying cement concrete 1:5:10 mix (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) around S.W. pipes including bed concrete as per standard design :				
	(a) 100 mm diameter S.W. pipe	14	One Metre		
	(a) 150 mm diameter S.W. pipe	40	One Metre		
12.3	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	(a) With F.P.S. bricks class designation 75	4	Each		
12.4	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand :8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimentionions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg )				
	(a) With FPS Bricks with class designation 75	5	Each		

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12.5	Extra for depth for manholes, Size 90x80 cm				
	(a) With FPS Bricks with class designation 75	1	Metre		
12.6	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 om dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter. 1.8 m long complete as per standard design				
	i) With F.P.S. bricks	1	each		
			<b>Sub Total</b>		
	<b>SH : XII WATER SUPPLY</b>				
13.1	Concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall				
	( i ) 15 mm dia nominal bore	60	One Metre		
	( ii ) 20 mm dia nominal bore	20	One Metre		
13.2	Providing and fixing galvanised iron pipes complete with galvanised iron fittings including trenching and refilling etc. (external work)				
	(i)15mm nominal bore	32	One Metre		
	(ii) 20mm dia nominal bore	40	One Metre		
13.3	Providing and fixing C.P. brass bib cock of approved quality conforming to IS : 8931.				
	(a) 15 mm dia nominal bore	6	Each		
13.4	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	(a) 15 mm dia nominal bore	3	Each		

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13.5	Providing and fixing C.P. brass shower rose with 15 or 20mm (a) 100mm dia	3	Each		
13.6	Providing and fixing PTMT Stop cock of approved quality and colour :- 15mm nominal bore, 36mm long. Weighing not less than 88gms.	14	Each		
13.7	Providing and fixing PTMT Stop cock of approved quality and colour :- 20mm nominal bore, 36mm long. Weighing not less than 88gms.	1	Each		
13.8	Painting G.I. Pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work.				
	(a) 15 mm nominal bore	10	Each		
	(b) 20 mm nominal bore	10	Each		
13.9	Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New Work).				
	A) 15 mm dia. Nominal bore	10	Each		
	B) 20 mm dia. Nominal bore	4	Each		
13.1	Providing and fixing Brass Gate Valve in G.I. pipe				
	B) 20 mm dia. Nominal bore	2	Each		
13.11	Providing and fixing G.I. tank nipple including making connection to the PVC tank.				
	B) 20 mm dia. Nominal bore	2	Each		
13.12	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete				
	(a) 20mm nominal bore	1	Each		

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13.13	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable looking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	1000	per litre		
			<b>Sub Total</b>		
	<b>S.H. XIII ROAD WORKS</b>				
14.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level				
	(a) 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	17.10	One Cum		
14.2	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including makng good the undulations etc. and disposal of surplus earth lead upto 50 metres.	170	sqm		
14.3	Cement concrete 1:2:4 (1cement:2 coarse sand :4 graded stone aggregate 20mm nominal size) in pavements, laid to required slope and camber in panels ar required including consolidation finishing and tamping complete.	11.4	cum		
			<b>Sub Total</b>		

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15	Submersible Pump				
15.1	Providing and fixing submersible pump 1 HP of kiloshkar or equilent make including cost of pipes, wiring and all accessories all complete as per direction of Engineer-in - charge.	1	1 job		
			<b>Sub Total</b>		
	PART-I TOTAL (CIVIL WORK)				
	Add VAT @ _____ * on _____ of the quoted rate of PART-I (Civil work)				
	Add Service tax @ _____ * on _____ of the quoted rate of PART-I (Civil work)				
	<b>GRAND TOTAL PART-I INCLUDING VAT &amp; SERVICE TAX (IN FIGURES AND WORDS)</b>				

**Note:- The bidder should specifically mention the Amount of VAT/Service Tax in the column provided and should not write "included in the Basic price". On award of work in the invoice also, taxes have to be shown separately**  
**\* To be filled by the Agency/Contractor**

NAME OF AGENCY

SEAL OF AGENCY