

SCHEDULE OF QUANTITIES

Name of Work:- Construction of 2 Nos toilet room including external and internal water supply, sanitary arrangements and electrification works at cafeteria, IIT Hyderabad, Kandi Campus.

Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
SH - A: Civil Works						
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth, lead up to 50m and lift up to 1.5m, as directed by Engineer-in-Charge.					
1.1	All kinds of soil	6.00	Cum			
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.00	Cum			
3	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, lead upto 50 m and lift upto 1.5 m.	2.00	Cum			
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	0.03	Cum			
4.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	2.30	Cum			
5	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (Zone III) : 4 graded stone aggregate 12.5mm nominal size).	3.00	Sqm			
6	Providing and applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg 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.	3.00	Sqm			
7	Centering and shuttering including strutting, propping etc. and removal of form for :					
7.1	Suspended floors, roofs, landings, balconies and access platform	0.50	Sqm			

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8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.					
8.1	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	8.00	Kg			
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 in foundation and plinth in:					
9.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.10	Cum			
10	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 in superstructure above plinth level up to floor V level.					
10.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	45.00	Sqm			
11	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with :					
11.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	6.00	Cum			
12	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge					
12.1	Extruded section profile size 48x40 mm	10.00	Metre			
13	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
13.1	200x10 mm	2.00	Nos			

Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
14	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.					
14.1	125mm	4.00	Nos			
15	Providing and fixing Stainless Steel Aldrops of approved quality & make with necessary screws etc all complete.					
15.1	200mm long	2.00	Nos			
16	Providing and fixing to existing door frames.					
16.1	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (\pm 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 5x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (\pm 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (\pm 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (\pm 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	3.00	Sqm			
17	Steel work in built up tubular (round, square or rectangular hollow tubesetc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.					
17.1	Hot finished welded type tubes	110.00	Kg			
18	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. (Ceramic glazed wall tiles of size 300mm x 200mm and or above shall be provided).	25.00	Sqm			

Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
19	Providing and laying rectified Glazed Ceramic floor tiles with matt finish of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.	12.00	Sqm			
20	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 gm per sqm as per IS:277 in 240 mpa 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 during transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5x 55mm) with EPDM seal, 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.	9.00	Sqm			
21	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa 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 complete :					
21.1	North light curves	4.00	RMT			
22	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	37.00	Sqm			
23	12 mm cement plaster finished with a floating coat of neat cement of mix :					
23.1	1:4 (1 cement: 4 fine sand)	1.00	Sqm			
24	12 mm cement plaster finished with a floating coat of neat cement of mix :					
24.1	1:4 (1 cement: 4 fine sand)	14.00	Sqm			
25	Finishing walls with Acrylic Smooth exterior paint of required shade :					



Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
25.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm).	37.00	Sqm			
26	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.					
26.1	Two or more coats on new work	14.00	Sqm			
27	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, 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 :					
27.1	W.C. pan with ISI marked white solid plastic seat and lid	2.00	Nos.			
28	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
28.1	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	2.00	Nos.			
29	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe					
29.1	40 mm dia	2.00	Nos.			
30	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	Nos.			
31	Providing and fixing PTMT Bottle Trap for Wash basin and sink.					
31.1	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	1.00	Nos.			
32	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	2.00	Nos.			

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33	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	2.00	Nos.			
34	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.					
34.1	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	2.00	Nos.			
35	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	2.00	Nos.			
36	providing and fixing of PVC multi inlet /plain floor trap of approved brand and manufacture with minimum 40mm water seal, suitable bushes/reducers for inlet connection suitable support including all leads, lifts levels and heights etc.					
36.1	75mm dia Outlet	2.00	Nos.			
37	Providing and fixing at all floors Type A - SWR PVC pipes including all fittings such as plain and door bends, tees, elbows, equal and unequal junctions, heel rest sanitary bends, collars etc. confirming to IS13592, IS 14735, including jointing with solvent and providing necessary supports, clamps/MS brackets at specified intervals The joints of pipe and fittings shall be with drip seal jointing in exposed areas like in shafts etc. and pasted type (solvent) for all other locations all complete and as per directions of Engineer - in - charge. MS brackets shall be paid separately.					
37.1	For 110mm dia pipe.	50.00	Metre			
37.2	For 75mm dia pipe.	6.00	Metre			



Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
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38	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. :Concealed work, including cutting chases and making good the walls etc.					
38.1	20 mm nominal outer dia .Pipes.	25.00	Metre			
39	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :					
39.1	15 mm nominal bore	2.00	Nos.			
40	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :					
40.1	15mm nominal bore	2.00	Nos.			
41	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	2.00	Nos.			
42	Providing and fixing of ABS body Health faucet with wall hook and 1 metre chrome plated PVC hose pipe etc. complete as required.	2.00	Nos.			
43	Providing and fixing of chrome finish two way bib cock of approved quality.	2.00	Nos.			
44	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 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 :					
44.1	100x100 mm size P type					
44.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation3.5	2.00	Nos.			

Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
45	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with 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 floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
45.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					
45.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation3.5	1.00	Nos.			
46	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :					
46.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.(Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :					
46.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation3.5	2.00	Nos.			
47	Providing and fixing of CP flange of approved quality complete, as per direction of Engineer in Charge.	8.00	Nos.			
48	Providing and fixing unplastised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
48.1	15 mm nominal bore with 45 cm length	2.00	Nos.			



Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
49	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe					
49.1	40mm dia	2.00	Nos.			
50	Providing and fixing of CPVC ball valve of approved quality complete, as per direction of Engineer in Charge.					
50.1	20mm dia	1.00	Nos.			
51	Providing and fixing of CP grating of approved quality etc ,complete as per the directions of Engineer-in-Charge.	2.00	Nos.			
52	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
52.1	Two or more coats on New work	110.00	Kg			
53	Supply of R.C.C. collars NP2 class 250 mm dia	2.00	Nos.			
54	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	1.00	Nos.			
SH - B: Electrical Works						
55	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.					
55.1	Group B	6.00	Each			
56	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	2.00	Each			
57	Supply, Installation, testing and commissioning of 20W LED Luminaire surface mounting, including all required accessories .(Similar to Make: CG, Model: 20W Light linea CDL Batten)	4.00	Each			
58	Supplying, Installation, Testing & Comissioning of 6.5 W, 150 mm BLDC Exhaust Fan Sweep : 150 mm , Rated Voltage : 230 V , Similar to Make: automberg, Model: STUDIO, Sweep : 150 mm	2.00	Each			

Sl.No	Description Of Items	Qty	Unit	Rate(Rs.)		Amount(Rs.)
				In Figures	In Words	
59	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
59.1	Single pole	1.00	Each			
60	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 240 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	1.00	Each			
61	Supply, loading, transportation, unloading at site, storage at site, shifting from storage place to site of following size of XLPE Insulated PVC Sheathed, FRLS, Aluminium Conductor armoured power cable of 1.1 KV grade conforming to IS amended upto date and as per specifications					
61.1	3 C x 6 sqmm	37.00	Metre			
62	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
62.1	Upto 35 sq. mm	10.00	Metre			
63	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
63.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	27.00	Metre			
	TOTAL AMOUNT IN RUPEES					

5/15/2022
Asst. Executive Engineer (Civil)

19/1/2022
Executive Engineer (Civil)

Bidders Sign with Seal

General Terms & Conditions

1. The successful bidder shall execute the works with great promptness, care and accuracy in a workman like manner to the satisfaction of Engineer-in-charge and shall complete the same.
2. "That the Executive Engineer(Civil), IIT Hyderabad shall from time to time supply the successful bidder with materials as per the schedule hereto and the value of the materials so supplied shall be set off or deducted from any sums then due or thereafter to become due to the successful bidder, otherwise provided that Executive Engineer will not be bound to take back from the successful bidder either before or after the completion of the works, the surplus materials which were originally procured by the successful bidder or were issued to him by the IIT Hyderabad hereinafter called "the Institute" but Executive Engineer shall have the option of purchasing and of the aforesaid materials surplus to the requirements of the works at the local prevailing market rates. Provided further that in the case of materials supplied by the Department the price shall not in any case exceed that originally charged by the Department. The successful bidder shall not remove from the site of the works any of the materials supplied to him for use on the works without previous sanction obtained in writing from the Executive Engineer.
3. That if the Institute shall make to the contractor any payment on account during the execution of the works the same will be liable to be deducted from such sum or sums as may be payable to the contractor on completion of the works as aforesaid.
 - a. **The contractor shall quote the rates inclusive of all Taxes including GST(WCT).**
 - b. The Engineer-in-Charge of the work will accept or reject the work executed, according to his judgment.
 - c. This order can be cancelled and the work stopped at any time by the Engineer-in-Charge if the work, or by any Officer superior to him in authority.
 - d. The work shall be executed strictly according to the specification, as per the drawing attached and as per the direction of Engineer-in-charge.
 - e. The Contractor/Firm shall make arrangement of for passes/token from Security Officer of IITH.
 - f. All work executed shall be paid for according to measurements taken by or under the orders of the Engineer-in-Charge of the work and not according to the quantity given in any estimate.
 - g. Additional conditions & Specifications as indicated in the attached sheet shall apply.
4. That payment due to the contractor may, if so, desired by him, be made to his bank instead of direct to him, provided that the contractor furnishes to the Executive Engineer an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank to receive payment or his signature in token of receipt on the bill or (2) the account made out as being due to him by Government or his signature in token of receipt on the bill or other claim preferred against the Department before settled by the Executive Engineer of the account or claim by payment to the bank. While the receipt given by such bank shall constitute a full and sufficient discharge for the payment the contractor should, wherever possible, present his bills duly receipted and discharged through his bankers.

Nothing herein contained shall operate to create in favour of the bank any rights or equities to the Institute.
5. That no labourer below the age of eighteen years shall be employed on the Works.
6. Fair Wage Clause—(a) The contractor shall pay not less than fair wages to laboureres engaged by him on the work.

Explanation:—

- (a) "Fair wage" means wage whether for time or piece work notified at the time of inviting tenders for the work by the Government of India.
- (b) The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to labourers indirectly engaged on the work, including in which any labour engaged by his sub-contractors in connection with the said work, as if the labourers had been immediately employed by him.
- (c) In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this agreement the contractor shall comply with or cause to be complied with the contractors' Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages, recovery of wages not paid and deductions unauthorisedly made, maintenance of wage register, wage cards publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of a like nature.
- (d) The Executive Engineer shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by

reason of non-fulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages, which are not justified by that terms of the contract or non-observance of the Regulations.

- (e) Vis-a-vis the Central Government, the contractor shall be primarily liable for all payments to be made under and for the observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.
- (f) The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.

6A. In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this agreement, the contractor shall at his own expense arrange for the safety provisions as per safety code framed from time to time and shall at his own expense provided for all facilities in connection therewith. In case the contractor fails to make arrangements and provide necessary facilities as aforesaid he shall be liable to pay a penalty of Rs.200 for each default and in addition to the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the cost incurred in that behalf from the contractor.

SAFETY CODE—(i) Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal 1 vertical).

(ii) Scaffolding or staging more than 3.6 m (12') above the ground or floor swing or suspended from an overhead support exacted with stationary support shall have guard rail properly attached, bolted braced and otherwise secured at least 90 cm. (3 feet) high above the floor or platform of such scaffolding on staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

(iii) Working platforms, gangways, and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform of the gangway or the stairway is more than 3.6 m. (12 feet) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fenced, as described in (ii) above.

(iv) Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.

(v) Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m (30 feet) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. ($11\frac{1}{2}$ ") for ladder up to and including 3 m. (10feet) at least and 6mm. ($\frac{1}{4}$ ") for each additional foot of length. Uniform step spacing shall not exceed 3.1 m. (12 feet). Adequate precautions shall be taken to prevent danger from electrical equipment. No material on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

The contractor shall also provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damage and costs which may be awarded in any such suit, action or proceedings to any such person, or which may with the consent of contractor be paid to compromise any claim by any such person.

(vi) Excavation and Trenching — All trenches, 1.2 m (4 feet) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 feet) in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 90 cm (3 feet) above the surface of the ground. The sides of trenches which are 1.5 cm (5 feet) more in depth shall be stopped back to give suitable slope, or securely held by timber bracing so as to avoid the danger of side from collapse. The excavated materials shall not be placed within 1.5 m (5 feet) of the edge of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.

(vii) Demolition — Before any demolition work is commenced and also during the process of the work:—

- (a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- (b) No electric cable apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
- (c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof, or other part of the building shall be so overloaded with debris or material as to render it unsafe.

(viii) All necessary personal safety equipment as considered adequate by the Engineer-in-charge should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned.

- (a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- (b) Those engaged in white-washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided protective goggles.
- (c) Those engaged in welding works shall be provided with Welders' protective eye-shields.
- (d) Stone breakers shall be provided with protective goggles and protective clothing, and seated at sufficient safe intervals.
- (e) When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
- (f) The contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting the following precautions should be taken:—
 - i. No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
 - ii. Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.
 - iii. Overall shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during recess and recession of work.

(ix) When the work is done near and place where is risk of drawing all necessary equipment's should be provided and kept ready for use and all necessary steps taken for prompt rescue of any persons in danger and adequate provision should be made for prompt first-aid treatment of all injuries likely to be sustained during the course or the work.

(x) Use of hoisting machines and tackle including their attachments, anchorage and supports shall confirm to the following standard or conditions:—

1. (a) These shall be of good mechanical constructions, sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.

(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.

2. Every crane driver hoisting appliance operator shall be properly qualified and no person under an age of 21 years should be in-charge of any hoisting machine including any scaffold window or give signals to the operator.

3. In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load in case of a hoisting machine having a variable safe working load each safe working load of the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

4. In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractors' machines, the contractor shall notify the safe working load of the machine to the Engineer-in-Charge, whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.

(xi) Motors, Gearing transmission, Electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards, hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load, adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

(xii) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work.

(xiii) These safety provisions should be brought to the notice of all concerned by display on a Notice Board at a prominent place at the workshop. The persons responsible for compliance of the safety code shall be named therein by the contractor.

(xiv) To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangement made by the contractor shall be open to inspection by the Labour Officer, Engineer-in-Charge of the department or their representative.

(xv) Notwithstanding the above clauses from (i) to (xiv) there is nothing in these to exempt the contractor from the operations of any other Act or rule in force in the Republic of India.

6B. The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:—

(1) the number of labourers employed by him on the work (2) their working hours, (3) the wages paid to them and (4) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damages and injury caused by them failing which the contractor shall be liable to pay to Government a sum not exceeding Rs.200/- for each default or materially incorrect statement. The decision of the Executive Engineer shall be final in deducting from bill due to the contractor the amount levied as fine.

6C. In respect of all labour directly or indirectly employed in the works for the performance to the contractors part of this agreement, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the IIT Hyderabad and its contractors.

6D. Maternity Benefit Rules for female workers employed by contractor.—Leave and pay during leave shall be regulated as follows —

- (i) Leave (i) in case of delivery:—Maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day.
- (ii) In case of miscarriage:—Up to 3 weeks from the date of miscarriage.

2. Pay (i) In case of delivery:—Leave pay during maternity leave will be at the rate of the women's average daily earnings calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of one rupee per day whichever is greater.

(ii) In case of miscarriage:—Leave pay at the rate of average daily earnings calculated on the total wages earned on the days when full time work was done during a period of 3 months immediately preceding the date of such miscarriage.

3. Conditions for the grant of maternity leave:— No maternity leave benefit shall be admissible to a workman unless she has been employed for a total period not less than 6 months immediately preceding the date on which she proceeds on leave.

6E. In the event of the contractor(s), committing a default or breach of any of the provisions of the Contractor's Labour Regulations and Model Rules for the Protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filling any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall without prejudice to any other liability, pay to the Government a sum not exceeding Rs.200/- for every default, breach, or furnishing, making, submitting, filling such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 percent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

6F. The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the Camp) of the following specifications on a suitable plot of land to be approved by the engineer-in-Charge:—

1. (a) The minimum height of each hut at the even level shall be 2.1 m. (7) and the floor to be provided will be at the rate of 2.7 sq.m. (30 sq. ft.) for each member of the worker's family staying with the labourers.
- (b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.8m X 1.5 (6 feet X 5 feet) adjacent to the hut for each family.
- (c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred or the total strength, separate latrines and urinals being provided for women.

- (d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.
2. (a) All the huts shall have walls of sun-dried or burnt bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobi on both sides. The floors may be katcha but plaster with mud gobi and shall be at least 15 cm. (6 inch) above the surrounding ground. The roofs shall be laid with thatched or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation the roofs remain water-tight.
- (b) The Contractor(s) shall provide each hut proper ventilation.
- (c) All doors, windows and ventilators shall be provided with suitable leaves for security purposes.
- (d) There shall be kept an open space of at least 7.2 m (8 yards) between the rows of huts which may be reduced to 6m. (20 feet) according to the availability of sites with approval of the Engineer-in-Charge, back to back construction will be allowed.
3. Water Supply:— The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than 2 gallons of pure and wholesome water per head per day for drinking purposes and 3 gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/their own cost make arrangements for laying pipe lines for water supply to his/their labour camp from the existing mains wherever available, and shall pay all fees and charges therefor.
4. The site selected for the camp shall be high ground, removed from jungle.
5. Disposal of Excreta:— The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not allowed, the contractor(s) shall make arrangements for the removal of the excreta through the municipal committee/authority and inform it about the number of labourers employed so that arrangements may be made of such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the municipality/authority. The contractor shall provide one sweeper for every 8 seats in case of dry system.
6. Drainage—The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.
7. The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.
8. Sanitation:— The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.
7. That if the contractor or his servants/labourers break or deface, any building, road fence, enclosure, or cause damage to any grass or cultivated land, or water pipes, cables, drains, electric or telephone posts or wires, roads, road curbs, trees, he shall restore or make good the same at his own expense, and in the event of his refusing or failing to do so, the damage, so caused, shall be repaired at his expense by the Executive Engineer, who shall deduct the cost thereof from any sums due, or which may become due to the contractor.
8. That if that Executive Engineer shall at any time during the progress of the works be dissatisfied with the rate of progress or the quality of the materials that have been used or of the workmanship, the Executive Engineer may put an end to this agreement on twenty-four hours' notice and in the case of bad workmanship or defective material may remove the same and have it replaced deducting the cost of such removal or replacement from amount due or that may become due to the contractor.
9. That if the contractor fails to complete as aforesaid the works by the time fixed in the agreement for completion the Director, IIT Hyderabad will be entitled to deduct as compensation from the sum found to be payable under this agreement or the balance of the sum then unpaid to the contractor a sum of Rs.100/- more for every day that shall lapse between the day fixed for completion and the actual completion provided that the compensation so payable shall not exceed ten percent if the cost of the works calculated on the basis of Schedule of the agreement.
- 9A. That in every case in which by virtue of the provisions of Section 12, Sub-Section (1) of the Workmen's Compensation Act, 1923. Government is obliged to pay compensation to a workman employed by the contractor, in execution of the works, Government will recover from the contractor the amount of the compensation so paid and without prejudice to the rights of Government under Section 12, Sub-

section (2) of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise.

Government shall not be bound to contest any claim made against under Section 12, Sub-Section (1) of the said Act, except on the written request of the contractor and upon his giving to Government full security for all cost for which Government might become liable in consequence of contesting such claim.

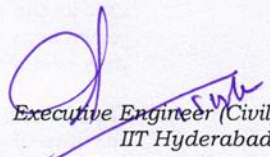
10. Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and so as to quality of workmanship, or materials used on the work or as to any other question, claim right, matter or thing whatsoever in any way arising out of, or relating to the contract designs, drawings, specifications, estimate, instructions, orders or these conditions or otherwise concerning the work, or the execution or failure to execute the same whether arising during the progress of the work or after completion or abandonment thereof shall be referred to the sole arbitration by the Dean(Plan), IIT Hyderabad, and if the Dean(Plan), IIT, Hyderabad is unable or unwilling to act, to the role of an arbitrator or some other persons appointed by the Director, willing to act as such arbitrator. It will be no objection to any such appointment that the arbitrator so appointed is as Government servant, that he had to deal with the matters to which this tender relates and that in the course of his duties as such/Government servant he had expressed views on all or any of the matters in dispute or difference. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this contract.

11. (1) Whenever any claim, against the contractor for the payment of a sum or money arises out of or under the contract. Government shall be entitled to recover such sum by appropriating in part or whole, the security deposit of the contractor. Forming the whole or part of such security. In the event of security being insufficient or if no security has been taken from the contractor then the balance or the total sum recoverable, as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due from the contractor under this or any other contract with Government should this sum be not sufficient to cover the full amount recoverable the contractor shall pay to Government on demand the balance remaining due.

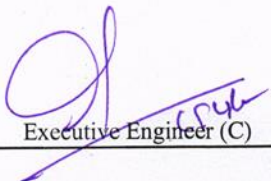
(2) Government shall have the right to cause an audit and technical examination of the works and the final bill of the contractor including all supporting vouchers, abstracts etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed by him or have been done by him under the contract and found not to have been executed the contract shall be liable to refund the amount of the over payment and it shall be lawful for Government to recover the same from him in the manner prescribed in sub-clause (1) of this clause or in any other manner legally permissible and if as a result of audit and technical examination it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Government to the contractor:

PROVIDED that Government shall not be entitled to recover any sum overpaid nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Engineer-in-Charge on the hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Engineer-in-Charge.

Signature of Bidder


Executive Engineer (Civil)
IIT Hyderabad.

ADDITIONAL CONDITIONS AND SPECIFICATIONS

1	The Civil works shall be carried out as per the instructions of the Engineer -in- Charge and strictly in accordance with the CPWD general specification for civil works as ammended upto date.
2	Completion certificate shall be submitted as required under CPWD specification.
3	The contractor shall have to obtain prior approval from Engineer -in -charge before placing the order for any specific materials. The Engineer -in -Charge may approve any of the makes /Brands out of the preferred list. All the materials to be used in the work shall be got approved by the Engineer -in- charge prior to their actual in the work.
4	Bad workmanship is liable to be rejected in toto.
5	All repairs and patch works shall be neatly carried out to match with the original finish by the contractor to the entire satisfaction of the Engineer-in-charge.
6	All the debris due to the Installation work shall be cleared every now and then and site shall be kept clean by the contractor at all times.
7	The contractor or his authorized representative will have to sign the site order book and comply with the remarks therein every now and then.
8	The contractor has to make his own arrangements for the watch and ward of the materials and other installations till the installation / work is completely handed over to the department. No extra claim will be entertained on account of this. Any damage to the materials during or under storage will be to the contractors account.
9	The Materials used shall be got approved from the Engineer -in -charge. To the maximum possible extent joints through connector shall be avoided.
10	The material to be used in the work shall be procured only from authorised source / dealers /distributors and documentary evidence to this effect shall be submitted as and when desired to the Engineer -in-Charge or his representative failing which the Engineer -in -charge reserves the right to reject the materials in toto.
11	The quantites given in schedule of work for all the items are tentative. The work shall be carried as per actual requirement as approved by the Engineer -in - Charge.
12	Makes of materials to be approved by Engineer Incharge.
13	No T&P / special T&P will be issued by the department and contractor has to arrange these at his own cost. Nothing shall be paid extra on this account.
14	Taxes : The contractor shall quote the rates inclusive of all Taxes including GST(WCT).
15	No quantity deviation is permitted without written approval of the competent authority. Permissible deviation shall be sanctioned by the competent authority as per the agreement. Deviation beyond permissible limits shall be sanctioned by the competent authority as per the prevailing Local Market Rates only and the decisions of the department is final and binding on the contractor.
16	The contractor shall follow the safety rules, regulations and precautions, measures at site while execution of work.
17	The Engineer incharge of the work will accept or reject the work executed, according to his judgement.
(Contractor)	 Executive Engineer (C)