SRIRAM EDUCATIONAL TRUST

Name of Work:

Special repairs to Srilekha Main Building (GF + 3 floors) at No. 49, Anna Salai, Chennai-600002.

Special conditions:

1. Date of commencement of work shall be within one week from the date of issue of work order (or) from the date of handing over the site whichever is later.

2. RMD will be deducted at the rate of 5% from each bill and released after one year from the date of completion of the work.

3. The Earnest money deposit of Rs. 85,000/- (Eighty-Five Thousand only) in the form of Demand Draft in favour of Secretary, Sriram Educational Trust should be enclosed along with tender schedule. EMD submitted by unsuccessful Tenderers will be refunded within fifteen days on finalisation of the Tender. The EMD of successful tenderer will be retained as security for the fulfilment of the contract, and refunded after satisfactory completion of the work.

4. The quantities in the schedule are tentative and may vary according to site conditions and during execution.

5. Payment will be made as per actual measurements and quantity only.

6. No escalation of rate will be allowed.

7. Water and electricity supply for construction purposes will be made available by the Client free of cost.

8. Contractor shall arrange space, stores, tarpaulin and other protective covers for accommodation of his staff, workmen and materials. All materials likely to deteriorate in the open space shall be stored under suitable cover.

9. Security of the Contractor's equipments and materials is his own responsibility.

10. The period of completion of his work will be 3 months from the date of commencement. No extension of time will be allowed.

11. If the work is not completed within the stipulated time, penalty will be levied from the contractor at the rate of 1% per month of the value of the work if the delay s due to the contractor's side.

12. Contractor special attention

    i. Clear river sand/M sand from approved quarry shall be used in all cases and passed by Engineer in charge.

    ii. The broken stone for concrete and RCC works shall be hard broken stone jelly and passed by Engineer in charge.

    iii. The Contractor shall procure the cement required for the work only from the authorized dealer of reputed brand of cement.

    iv. All cement concrete for RCC works shall be made machine mixed and vibrated.

    v. Description of the work in BOQ is for indicative purpose, refer Tamil Nadu Building practice for the detailed specification. Work should be carried out as per the standard specification.

13. For all payments TDS will be deducted as per orders in force and at the prescribed rate.

14. Contractor should be required to indicate registration number under GST Act.

15. First aid box should be made available at work site with adequate medicines and dressing materials.

16. Contract assigned to the Contractor shall be cancelled if child labour is engaged in execution of work.

17. Contractor should ensure that all the applicable labour laws especially safety and insurance of the labour are followed. This is the basic responsibility of the Contractor. Necessary safety measures should be taken when the labourers are working on the scaffoldings. The Contractor is solely responsible for any lapses.

18. The Contractor should employ suitable technical staff (Diploma holder in Civil Engineer) for supervising the work and shall ensure that one of them is always available at the site during working hours personally checking all items of work with extra attention to RCC work.

19. Contractor should be responsible for liasioning with Corporation authority as and when required.

20. If any clarification is required, the Contractor can contact the Project Officer/ Civil Engineer of the Trust during office hours. His Telephone Number is 044-28511011.

Name of work: Special repairs to Srilekha Buildings (GF + 3 floors) at No.49, Anna Salai, Chennai – 600 002
(Civil Work)

S.No	Description	Qty	Unit	Rate	Amount
1	Dismantling the P.C.C. flooring without any damage to the existing structure including removing the debris and depositing the same in the places shown etc., complete.	111.0m^2	m^2		
2	Chipping the floor finishing in balcony without any damage the existing structure including removing the debris and depositing the same in the places shown etc., complete.	89.0m^2	m^2		
3	Dismantling the ceiling plastering without any damage the existing structure including removing the debris and depositing the same in the places shown etc., complete.	90.0m^2	m^2		
4	Dismantling the brick work without any damage to the existing structure including removing the debris and depositing the same in the places shown etc., complete.	14.0m^2	m^2		
5	Dismantling the flooring tiles and wall dadoing tiles without any damage to the existing structure including removing the debris and depositing the same in the places etc., complete.	331.0m^2	m^2		
6	Demolishing of old RCC fins and connecting slap in all this floors around the exterior building (G.F+7 = Floors) manually/mechanical means including stacking material at temporary waste storage yard within the 50 meters lead and disposal of material as directed by Engineer–in charge.(Rates including Scaffolding and safety measure etc)	102 Nos.	Each		
7	Dismantling and removal of existing doors (Steel or wood) frames, shutters, architrave, holdfasts etc in all floors, manually/mechanical means including stacking of serviceable	78 Nos.	Each		

	material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge.				
8	Supplying and fixing of Green safety nets, in scaffolding to cover Front and Rear side buildings to prevent dust pollution and maintain safety as directed Engineer-in-charge	160 m^2	m^2		
9	Earth work excavation for foundation in all type of soil and sub soil to the required depth including manual excavation in dense soil confirming to the safety rules during the progress of the work etc., complete.	23.0 m^3	m^3		
10	Supplying filling in foundation and basement with quarry dust in layers of not more than 15cm thick, watering, and consolidation etc., complete.	4.0 m^3	m^3		
11	Plain cement concrete 1:4:8 for foundation and flooring using 40mm gauge hard broken stone jelly including laying well compacting & curing etc. complete.	7.5 m^3	m^3		
12	Cement concrete 1:$1^{1/2}$:3 for all type of RCC works using 20mm gauge HBSJ including necessary centering, shuttering, laying, vibrating, curing, and excluding the cost of reinforcement grill etc. complete.	4.0 m^3	m^3		
13	Brick work in cement mortar1:5 for partition wall in super structure using table molded chamber burnt stock bricks of size 9"x$4^{1/2}$"x3" cost inclusive of laying, curing, scaffolding etc,. complete	137.0m^2	m^2		
14	Brick work in cement mortar 1:5 using table molded chamber burnt stock bricks of size 9"x $4^{1/2}$"x 3" cost inclusive of laying, curing, scaffolding etc. complete. (a) for foundation and basement (b) for super structure ground floor	 12.0m^3 4.0m^3	 m^3 m^3		

15	Supplying and laying of morbonite vertified tiles of size 60x60cm, laid over in C.M 1:3 20mm thick including finishing the joints perfectly with white cement and necessary coloring pigments matching with tiles color, chipping where ever necessary and cleaning etc., complete. The color and design should be got approved before use.	230m^2	m^2		
16	Plastering with cement mortar 1:4; 20mm thick including smooth finishing, scaffolding, curing etc., complete	320 m^2	m^2		
17	Supplying and fixing of 50mm thick RCC jalli (commercially manufactured) with CC 1:2:4 the cost including the cost of labour, cement mortar for fixing and pointing etc., complete.	9.0m^2	m^2		
18	Supplying and laying antiskid ceramic tiles of size 1"0"x1"0" laid over CM 1:4;20mm thick including finishing the joints perfectly with white cement and necessary coloring pigments matching the tiles color including cleaning, chipping where ever necessary etc., complete. The color and design should be got approved before use.	95.0 m^2	m^2		
19	Supplying and laying glazed tiles (dadoing) of size 1'0"x 0'9" cm laid in CM 1.3:10mm thick including finishing the joints perfectly white cement and necessary coloring pigments matching the tiles color including chipping where ever necessary etc., complete. The color and design should be got approved before use.	330m^2	m^2		
20	Providing granolithic floor finish 40mm thick with plain cement concrete 1:1$^{1/2}$:3 using course aggregate of 6 to 12mm size including neat finishing, thread lining floor topping, curing etc., complete.	111.0m^2	m^2		

21	Supplying fabricating and placing in position of TMT reinforcement grill for all RCC works including cost of binding wire labour and wastage etc., complete.	400 kg	Kg		
22	Supplying fabricating and fixing in position anodized aluminum sliding window in all floors (including the cost of scaffolding charges etc)with sliding arrangement and gutter arrangement so as to drain the water entering and made extruded aluminium section of sizes given below with necessary accessories of 2 track frames, shutter plain of 15mm series, interlock of 15mm series, guide, bearing wheel heavy duty, rubber beading, lock and handle including supplying and fixing 4mm thick pin headed glass including cost of materials labour of power consumption required for fabrication drilling holes in RCC column/floor slab/masonry wall wherever required and made same to original condition after fixing etc complete. The Al section are to be anodized accordance with ISI 1868/1962 and should be got approved by the engineer in charge of work etc., complete. a)Two Track sliding window b)Three Track sliding window c)Repairing the Aluminium window to easy movement and replacing rollers and broken glass	 25.0 m^2 54.0 m^2 40.0 m^2	 m^2 m^2 m^2		
23	Supplying fabricating and fixing in position anodized aluminum single doors partly paneled and partly glazed. The bottom will be PLB sheet of 9mm thick both side ivory and the top fixed with plain glass of 4mm thick. The outer frame using rectangular box section 101x44x3.18mm and shutter frame with necessary accessories with rubber beading, door closer, door stopper handle hinges etc.,	10.0m^2	m^2		

	including fixing with necessary dismantling the wall if required making holes in column, masonry beams wherever necessary with power drilling to the extend required and made good after the work is over. The materials should be got approved by the engineer in charge before fixing etc complete. The Al. section are to be anodized accordance with ISI 1868/1962 and should be got approved by the engineer in charge of work etc., complete.				
24	Supplying and fixing best quality PVC doors with frame. The quality & color should be got approved before use on work.	30.0m^2	m^2		
25	Supplying and fixing best country wooden door frame of size 100x75mm with 32mm thick single leaf flush shutter cost inclusive of one coat of primary with putty and two coats of enamel paint rate including of Aluminium fittings & fixtures etc complete.	48.0 m^2	m^2		
26	Supplying and fixing single leaf flush shutter of 38mm thick using hardwood frame with particle board until an both side 4mm thick Commercial plywood including one coat of primary with putty and two coats of enamel paint rate including of Aluminium fittings & fixtures etc complete.	40m^2	m^2		
27	Painting the old walls with two coat of emulsion paint of approved quality over coat of primer. The cost including through scrapping and cleaning surface putty the crack portion wherever necessary. The color shade should be approved before use.(paint should be not less than the equal to Asian – Tractor Emulsion).	6010m^2	m^2		
28.	Painting the exterior old walls with two coats of paint over one coat of primer. The cost including through scrapping and cleaning	5600m^2	m^2		

	the surfaces with watering, patty cracked portion where ever necessary. The color and shade should be got approved before use on the work (paint should be not less than equal to Asian – appx.)				
29	Painting the new iron works with two coats of synthetic enamel paint over the existing priming coat. The cost including scaffolding etc., complete.	123m^2	m^2		
30	Hire charges for props and span for dismantling of staircase, steps, flight and landing etc.	24.6m^2	m^2		
31	Hire charges for scaffolding for dismantling work.	477m^2	m^2		
32	Polishing the kota stone with machine including cost of polishing the floor etc.,	1345m^2	m^2		
33	Supplying, fabricating and fixing MS ornamental grills for doors and windows using MS flat (or) square bars with neat finishing and grinding the joints the cost including, necessary scaffolding and all allied civil works etc., complete.	5050Kgs	Kg		
34	Supplying and fixing in position best quality and approved make Indian made white / glazed earthenware wash hand basin of size 550 x 400mm (without pedestal) with a pair of cast iron brackets, including cost 15mm dia brass CP pillar tap, 32mm dia "B" class GI waste pipe with rubber plug and chain, 15mm dia GM wheel valve, 15mm brass nipple, 15mm dia nylon connection, 32mm dia CP brass waste coupling including fixing of wash basin using CI brackets on to the wall in position with TW plugs and screws, rubber washers, white lead and giving necessary water supply connection and painting the brackets with two coat of painting over a priming coat of anti-	8 Nos.	Each		

	corrosive paint including testing for leakages etc., complete complying with standard specification and as directed by the departmental officers. (The wash hand basin and specials should be got approved before use on works).				
35	Supplying and fixing in position Indian Water Closet (Oriya type) of size 580 x 440mm white glazed earthern ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to CI soil pipes (including the cost of 100mm dia CI pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Engineer in charge before use on works).	9 Nos	Each		
36	Supplying and fixing in position white / color glazed European Water Closet of best quality and approved make with 100 mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity low level flushing tank with a pair of CI brackets, etc., complete with all	13 Nos	Each		

	fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Engineer in charge before use on works).				
37	Supply and fixing in position of best Indian make white glazed earthenware lipped mouth flat back urinal of best quality and approved make of size 430mm x 260mm x 350mm with GI pipe, 32mm dia bell mouth PVC connection and waste pipe, 15mm dia GI pipe of required length, 15mm dia GM wheel valve, 15mm dia brass nipple 2 Nos., and fixing the urinals in position with necessary TW plugs, clamps, screws, etc., including dismantling masonry and re-doing the same to the original condition, etc., including painting the pipe with two coats of best quality approved synthetic enamel paint over one coat of red oxide primer and checked without any leakage etc. complete. The make and quality of materials should be got approved before use on work.	4 no's	Each		
38	Supplying and fixing in position Indian make beveled edge mirror of approved quality and brand PVC / Fiber Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved color fixed with brass screws, rawl plug, etc., complete. The materials should be got approved before use.	13 Nos.	Each		
39	Supplying and fixing approved best quality brass CP towel rail 600mm long and 20mm dia with brackets	9 Nos.	Each		

	of same materials including cost of teak wood plugs and CP screws, etc., complete. The materials should be got approved before use.				
40	Supplying and laying in position of PVC soil /waste pipe of size 110mm, 6kgs/cm^2 with necessary PVC specials such as plain bend, door bend, Tee, offset and 'Y' junction with (or) with door of best quality confirming to BSI standards and providing leak proof joints including fixing to the wall PVC/ms clamp etc., and making connection to all sanitary fittings and soil/waste line dismantling wherever necessary and making good the dismantled portion to the original condition etc., complete. The make and quality of the pipe should be got approved before use.	210 m	Rm		
41	Supplying, laying, jointing and testing the following size of CPVC pipes of approved quality and best variety confirming to BSI standards including cutting and fixing with CPVC specials laid properly to alignment, cost of specials and fixing the walls with T.W. Plug, PVC clamp and screws, making hole to the walls, roof and redoing the dismantled portion to original condition, plastering wherever necessary, scaffolding charges etc., complete. The quality of materials should be got approved before use on the work. a) 20mm dia pipe……. b) 25mm dia pipe……. c) 40mmdia pipe…….	 80 m 80 m 200 m	 Rm Rm Rm		
42	Supplying fixing and testing of PVC floor trap fixed in sunken portion including dismantling masonry works wherever found necessary and making good the damaged	17 Nos.	Each		

	portion to the original condition and giving connections to the pipe as directed etc. complete.				
43	Supplying and fixing of PVC gratings 150 x 150 mm for floor sump as per the specification including finishing with floor etc., complete.	17 Nos.	Each		
44	Supplying and fixing in position of approved quality G.M gate value with BIS make of the following dia, including cost of shellac, thread balls etc., complete. The make and quality should be got approved before use on the work. (a) 25mm dia gate value…… (b) 40mm dia gate value…….	 11 Nos. 9 Nos.	 Each Each		
45	Supplying and fixing in position of 15mm dia long body C.P tap (heavy duty) approved quality including cost of shellac and thread ball etc., complete. The quality and make should be got approved before use.	17 Nos.	Each		
46	Supplying and fixing in position bib cock with CP health faucet, wall hook, one metre long flexible tube, angle cock with wall flange including cutting and making good the walls etc., complete. The make and quality should be got approved before use.	13 Nos.	Each		
47	Breaking & Chipping off all the loose/weakened portions and removing the cracked particles (Dismantled portion in existing projected RCC columns, beam and slap surface) upto the possible depth with mechanical equipments, cutting plastered surface as directed by Engineer-in-charge (Rate including scaffoldings, Breaking and Gas cutting machines etc)	70 m	Rm		
48	Plastering the existing concrete projected surfaces(cement mortar mix 1:4 as directed by Engineer-in-charge after applying	70 m	Rm		

	a) Applying Dr.Fixit clear solution to the rusted rebar's and cleaning the surface with wire brush to remove all the loosened scale elt. b) Applying two coats of corrosion Inhibitor cera rebar coat or Nito prime Zincrich 90 from forsroc to prevent further corrosion. c) Applying one coat of Nito Bond SBR from Forsroc bonding chemical for RC concrete surface to get better bonding. d) Curing by potable water for 7 days (Rates includes Scaffolding & Safety measures etc)				
49	Prepare the surface and apply one cost of plaster of 18 mm average thickness in CM 1:4 with Msand and approved water proofing compound on the Exterior faces of walls as directed by the Engineer-In-Charge(Rates including scaffoldings, button marketing, beam/wall correction works if any, curing etc)	65 m^2	m^2		
50	Chipping off all the loose/ weakened portion and removing the cracked particle of columns, beams, slab surface upto possible depth with chisel & hammer a) Applying Dr. Fixit clear solution to the rusted rebar's cleaning the surface with wire brush to remove all loosened scales etc., b) Applying two coats of corrosion Inhibitor Cera rebar coat or Nito prime Zincrich 90 from Forsroc to prevent further corrosion. c)Applying one coat of Nito Nond SBR from Forsroc bonding chemical for RC concrete surface to get better bonding between old & new concrete etc. d) Plastering the surfaces (cement mortar mix 1:4) for staircase waist slab, steps, plumbing ducts, electrical ducts. roof projections, balconies ceiling and walls etc as directed by Engineer-In-charge	173 m	Rm		

	c) Curing by potable water for 7 days (Rates includes Scaffolding & safety measures etc)				
51	Chipping off all the loose /weakened portions and removing the cracked particle of columns, beams, slab surface upto the possible depth with chisel & hammer a) Applying Dr.Fixit clear solution to the rebar's and strengthening with additional same dia rebar stretching by welding in order to strengthen the member. b) Cleaning the surface with brush to remove all the loosened scales etc. c) Applying two coats of corrosion Inhibitor Cera rebar coat or Nito prime zincrich 90 from Forsroc to prevent further corrosion. d) Applying one coat of Nito Bond SBR from Forsroc bonding chemicals for RC concrete surface to get better bonding between old & new concrete etc and plastering the surface (cement mortar 1:4) such as staircase waist slab, steps, plumbing ducts, electrical ducts, roof projections balconies, ceiling and walls etc as directed by Engineer-In-Charge. e) Curing by potable water for 7 days.(Rates includes scaffolding & safety measures etc)	72 m	Rm		
52	Chipping off all the loose/weakened portions and removing the cracked particle of columns, beams slab surface upto the possible depth with chisel & hammer a) Applying Dr.Fixit clear solution o the corroded rebar's and strengthening with addition same dia rebar stretching by welding in order to strength the member. b) Cleaning the surface with wire brush to remove all the loosened scales etc. c) Applying two coats of corrosion	43 m	Rm		

	Inhibitor Cera rebar coat or Nito prime Zincrich 90 from Forsroc to prevent further corrosion. d) Micro concrete M20 grade with 10-12mm chips with super plasticizer (Cera plast 300) concrete of min 25mm thick over he rebars of beams, columns and packed well with insertion of welded mesh (if necessary for the major crack portion) and plastering the surface (cement mortar 1:4) etc as directed by Engineer-In-Charge. c) Curing by potable water for 7 days.(Rates includes scaffolding & Safety measures etc)				
53	Removing white or color wash by scrapping and preparing the surface smooth including necessary repairs to scratches etc., in Toilet ceiling as per Engineer-In-Charge (Rates includes scaffolding and safety measures etc.,)	92 m^2	m^2		
54	Cleaning of exiting room ceilings, walls, toilets, corridors, staircases, balcony flooring etc as directed by Engineer-In-Charge.	360 m^2	m^2		
55	Crack filling with ready to use polymer based crack filler a) After applying a coat of prime as directed by Engineer-In-Charge.	300 m	Rm		
56	Lead charges for dismantled materials/debris a) Brick work, Plasters, gunny bags, waste cotton boxes, RCC and PCC for average additional lead beyond 50m and cleaning outside the premises etc., Dismantled Materials/debris clear away from the site, cost including the consideration of lead and approved dumped yard charges.	6 Loads	Load		
57	Supplying & Fixing Sintex water tank of the following capacity with ISI standard a) 1000 lits capacity b) 2000 lits capacity	1 No 1 No	Each Each		

PROPOSED ELECTRICAL WIRING WORKS IN SRILEKHA BUILDING
GROUND FLOOR

Sl. No	Description	Qty	Amount		TOTAL
			Supply	Erection	
1	Supply & Erection of 7Segment DB Box (door type) -1no with provision of 1no MCB – 32A 4p, 3nos of 25A 2pole MCB,7nos of 6A single pole MCB,5nos of 16A single pole MCB with 10Kg SWG copper earthing work & DB box base channel by using necessary accessories etc, Including cutting of walls & finishing works etc. DB – Legrand make. MCB - Legrand make. The material should gor approved before commencements of works.	1set			
2/1	Supply & Laying of Incoming power3.5core 50Sqmm 1.1KV grade Al-Armd UG Cable 1run from Main panel to Ground floor 7Segment Db box, gland fixing and termination work for both sides with 10Kg SWG earthing work etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type. The materials should be got approved before commencements of works.	20Mtrs			
2/2	Supply & erection of 63A MCCB or 63A L&T Switch, fuse link with enclosure box and 2nos cable entry box. MCCB - Legrand Make. The materials should be got approved before commencements of works.	1set			
3	Excavation for 50 Sqmm UG cable from main panel to cable tray, trench of 900mm deep and back filling of trench with one layer of brick & 2layer of sand and refilling with excavate soil to its original level.	15Mtrs			
4	Supply & Erection of earth pipe 48mm dia, wall thickness 3.25mm, hot pipe dip galvanized. 3meter	5nos			

	long with funnel arrangement for water pouring and two sides run with 25x3mm cu flat from pipe bottom to top with charcoal, salt, sand and 600x600mm heavy duty chamber cover & masonry works, necessary accessories etc.				
5	Supply & Laying of 10Kg SWG copper	100Mtrs			
6	Ground floor Toilet rooms:- Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light and fan points were ever necessary by using 3way junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes, (added 1set of 10Switch & sockets) including cutting of walls fixing of pipes and finishing etc. Wire - Finolex or Orbit makes. A.Light points B.Exhaust fan CG -Make. (10A Switch - Romo type make)	Light -12 Fan - 3			
7	Additionally supply & laying of 3Rx1.5Sqmm copper wire in a metal conduit pipe for light, Exhaust fan points. Wire - Finolex or Orbit makes.	Running 75Mtrs.			
8	Supply and Laying of 2.5Sqmm 4core Al-Armd - Ug cable 1run from 7Segment DB box to Lighting Switch box with 20A 4P MCB and 4P MCb box (H&L) 2nos.	Running 45Mtrs.			
9	Supply & Erection of Main power Panel in E.B room, Main panel consists of Multi-type function Digital Meter, copper bus bar chamber, 1no.125A TPN MCCB as E.B Incoming. 1no. 125A TPN MCCB as D.G Incoming. 6nos of 63A TPN MCCB as Outgoing. Main panel mounting with base channel and civil foundation works. (MCCB - Legrand make)	1Set			

	The materials should be got approved before commencements of works.				
10	Supply & Laying of Incoming power3.5core 70Sqmm 1.1KV grade Al-Armd UG Cable 1run from E.B Meter board to Main panel, gland fixing and termination work for both sides with 10Kg SWG earthing work etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type. The materials should be got approved before commencements of works.	30Mtrs.			
11	Supply & Laying of Incoming power3.5core 70Sqmm 1.1KV grade Al-Armd UG Cable 1run from Existing 50KVA DG Det panel to Main panel, gland fixing and termination work for both sides with 10Kg SWG earthing work etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type. The materials should be got approved before commencements of works.	80Mtrs.			
12	Excavation for 70 Sqmm UG cable trench of 900mm deep and back filling of trench with one layer of brick & 2layer of sand and refilling with excavate soil to its original level. (Existing Generator Shifting work)	75Mtrs.			
13	Removing the old UG cables and old main panels, DB boxes and switch boxes in existing E.B panel room & Ground floor.	1set			
14	Towards charges of T.N.E.B power:- Co-Ordination with T.N.E.B with getting E.B power for enchantment of existing metering power to increase 60A metering power supply.(Including all follow up charges)	1set			
15	Supply and Erection of 50KVAR	1nos			

	APFC System in E.B room. (Capacitor-Siemens-make) The materials should be got approved before commencements of works.				
16	**Street Light works:** Supply and Erection of single arm type street light pole (including 6A SP MCB fixing inside – 2nos) GI type pole and 6Mtrs height and mounted on civil foundation & pole erection work with accessories (note cable entry inside of the pole) The materials should be got approved before commencements of works.	7nos			
17	Supply & Laying of Incoming power 4core 4Sqmm UG Cable 1run from ground floor Lighting DB box to security room & Security room to all Street Light pole with serious connection, gland fixing and termination work for both sides etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type**.**	300Mtrs			
18	Excavation for street light 4Sqmm UG cable trench of 900mm deep and back filling of trench with one layer of brick & 2layer of sand and refilling with excavate soil to its original level.	200Mtrs			
19	Supply and laying of 10SWG copper wire (10KG) for serious connection to each street light pole.	300Mtrs			
		Total (A)			

1ST FLOOR

Sl.No	Description	Qty	Amount		TOTAL
			Supply	Erection	
1	Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light and fan points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes,(added 1set of 10Switch & sockets with fan regulator step type) including cutting of walls fixing of pipes and finishing etc. (Providing Lighting Switches & boxes for each class rooms, HOD,Staff rooms-totally 6rooms) (Class room points consists of 8nos – tube lights, 3nos - fans & HOD room 2nos - tube lights, 1no - fan & Staff room 3nos - tube light, 3nos - fans) Wire-Finolex or Orbit makes. A.Light points B.Fan points The materials should be got approved before commencements of works	Light-34 Fan - 16			
2/1	(Principal Room)Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light and fan points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes,(added 1set of 10A Switch & sockets) including cutting of walls fixing of pipes and finishing etc. Wire-Finolex or Orbit makes. A.Light points B. Fan points	Light - 2 Fan - 1			
2/2	Supply & Laying of Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth	Running 30Mtrs.			

	copper wires in a Metal conduit pipe of 25mm (H0 with necessary bends, junction boxes up to A/C plug box and 2pole 20A MCB with 2pole MCB box - 1no (H&L) from lighting DB boxes to A/C Plug box, including cutting of wall fixing of pipes etc. Wire-Finolex or Orbit make. MCB & Box -Legrand make.				
3	Supply & Laying of Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H0 with necessary bends, junction boxes up to A/C plug box from Computer Lab and 2pole 20A MCB with 2pole MCB box - 2nos (H&L) from lighting DB boxes to A/C Plug box, including cutting of wall fixing of pipes etc. Wire-Finolex or Orbit make. MCB & Box - Legrand make.	Running 100Mtrs			
4	(Corridor & Steps)Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes (2set of switch boxes),(added 1set of 10A Switch & sockets) including cutting of walls fixing of pipes and finishing etc. Wire-Finolex or Orbit makes. A.Light points	7 points			
5	Additionally supply & laying of 3Rx1.5Sqmm copper wire in a metal conduit pipe for light and fan points. Wire - Finolex or Orbit makes.	Running 250Mtrs .			
6	Supply & Laying of Incoming (Circuit point) 2Rx2.5Sqmm (RYBN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes from lighting DB boxes to 10A	Running 350Mtrs			

	modular switch box, including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make.				
7	Supply & Erection of Fan hook in staff room ceiling.	3nos			
8	Supply & Laying of Incoming 2Rx2.5Sqmm (RYBN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 20A modular SS combine switch box (H) from lighting DB boxes to 20A modular switch box, including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make. Switches & sockets - romo type make.	Running 250Mtrs 5nos plug boxes.			
9	Supply & Laying of UPS Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 1no of 4p 25A MCB, box (H&L),1no of 2p 25A MCB &box (H&L) from lighting DB boxes to UPS point, including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make. MCB - Legrand make.	Running 50Mtrs.			
10	Supply & Laying of UPS Outgoing 2Rx2.5Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 10A modular switch & sockets with box set (2+2) 5nos from UPS O/P to 10A modular switch boxes , including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make.	Running 200Mtrs			
11	Supply & Laying of UPS Outgoing 2Rx2.5Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 10A modular switch & sockets with box set (2+2) 10nos from UPS O/P to 10A	Running 200Mtrs			

	modular switch boxes form computer Lab , including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make. Plug boxes & switches - Romo type - make.				
12	Supply & Erection of 7Segment DB Box (door type) -1no with provision of 1no MCB – 32A 4p, 3nos of 25A 2pole MCB,7nos of 6A single pole MCB,5nos of 10A single pole MCB with 10Kg SWG copper earthing work & DB box base channel by using necessary accessories etc, Including cutting of walls & finishing works etc. DB–Legrand make. MCB-Legrandmake. The material should get approved before commencements of works.	1set			
13	Supply & Erection of 4way VTPN DB Box (door type) -1no with provision of I/C1no MCCB – 63A 4p, O/P 4nos of 32A 3pole MCB with 10Kg copper SWG earthing work,base channel by using necessary accessories etc, Including cutting of walls & finishing works etc. VTPN DB–Legrand make. MCCB-Legrand make. MCB-Legrandmake. The material should get approved before commencements of works.	1Set			
14	Supply & Laying of Incoming power3.5core 50Sqmm 1.1KV grade Al-Armd UG Cable 1run from Main panel to 1st floor VTPN Db box, gland fixing and termination work for both sides etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type. The materials should be got approved before comments of works.	30Mtrs			
15	Excavation for 50Sqmm UG cable trench of 900mm deep and back filling of trench with one layer of	20Mtrs			

	brick & 2layer of sand and refilling with excavate soil to its original level.				
16	Supply & Laying of earth copper flat 25x3mm from Earth pit ground floor to third floor. The materials should be got approved before commencements of works.	100Mtrs			
	TOTAL				

SECOND FLOOR

Sl.No	Description	Qty	Amount		TOTAL
			Supply	Erection	
1	Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light and fan points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes,(added 1set of 10Switch & sockets with fan regulator step type) including cutting of walls fixing of pipes and finishing etc. (Providing Lighting Switches & boxes for each class rooms, HOD ,Staff rooms - totally 6rooms) (Class room points consists of 8nos – tube lights, 3nos - fans & HOD room 2nos - tube lights, 1no - fan & Staff room 3nos - tube light, 3nos - fans) Wire - Finolex or Orbit makes. Switches & Sockets-Romo type make. A.Light points, B.Fan points	 Light-34 Fan - 16			
2/1	(Principal Room)Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light and fan points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes,(added 1set of 10A Switch & sockets) including cutting of wall fixing of pipes and finishes.Wire-Finolex or Orbit make. A. Light points B. Fan points	 Light-2 Fan - 1			
2/2	Supply & Laying of Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H0 with necessary	 Running			

	bends, junction boxes up to A/C plug box and 2pole 20A MCB with 2pole MCB box (H&L) from lighting DB boxes to A/C Plug box, including cutting of wall fixing of pipes. Wire - Finolex or Orbit make. MCB & Box - Legrand make.	30Mtrs.			
3	Supply & Laying of Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H0 with necessary bends, junction boxes up to A/C plug box from Computer Lab and 2pole 20A MCB with 2pole MCB box - 2nos (H&L) from lighting DB boxes to A/C Plug box, including cutting of wall fixing of pipes etc., Wire – Finolex or Orbit make. MCB & Box - Legrand make.	Running 100Mtrs. .			
4	(Corridor & Steps)Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes (2set of switches boxes),(added 1set of 10A Switch & sockets) including cutting of walls fixing of pipes and finishing etc., Wire-Finolex or Orbit make. A.Light points	7points.			
5	Additionally supply & laying of 3Rx1.5Sqmm copper wire in a metal conduit pipe for light and fan points.Wire - Finolex or Orbit makes.	Running 250Mtrs.			
6	Supply & Laying of Incoming (Circuit point) 2Rx2.5Sqmm (RYBN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction	Running 350Mtrs.			

	boxes from lighting DB boxes to 10A modular switch box, including cutting of wall fixing of pipes.Wire - Finolex or Orbit make.				
7	Supply & Erection of Fan hook in staff room ceiling.	3nos			
8	Supply & Laying of Incoming 2Rx2.5Sqmm (RYBN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 20A modular SS combine switch box (H) from lighting DB boxes to 20A modular switch box, including cutting of wall fixing of pipes etc. Wire-Finolex or Orbit make. Switches & sockets - romo type make.	Running 250Mtrs. 5nos plug boxes.			
9	Supply & Laying of UPS Incoming 2Rx4Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 1no of 4p 25A MCB, box (H&L),1no of 2p 25A MCB &box (H&L) from lighting DB boxes to UPS point, including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make.	Running 50Mtrs.			
10	Supply & Laying of UPS Outgoing 2Rx2.5Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 10A modular switch & sockets with box set (2+2) 5nos from UPS O/P to 10A modular switch boxes , including cutting of wall fixing of pipes etc. Wire - Finolex or Orbit make.	Running 200Mtrs.			
11	Supply & Laying of UPS Outgoing 2Rx2.5Sqmm (RN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes and 10A modular switch & sockets with box	Running 200Mtrs.			

	set (2+2) 10nos from UPS O/P to 10A modular switch boxes form computer Lab , including cutting of wall fixing of pipes etc.,Wire - Finolex or Orbit make. Plug boxes & switches - Romo type - make.				
12	Supply & Erection of 7Segment DB Box (door type) -1no with provision of 1no MCB – 32A 4p, 3nos of 25A 2pole MCB,7nos of 6A single pole MCB,5nos of 10A single pole MCB with 10Kg SWG earthing work & DB box base channel by using necessary accessories etc, Including cutting of walls & finishing works etc., DB–Legrand make. MCB-Legrand make. The material should got approved before comments of works.	1set			
13	Supply & Erection of 8way SPN DB Box (door type) -1no with provision of I/C1no MCB – 20A 2p, O/P 6nos of 10A 4pole MCB with 10Kg SWG earthing work,base channel by using necessary accessories etc, Including cutting of walls & finishing works etc. SPN DB–Legrand make,MCB - Legrand make. The material should get approved before comments of works.	1Set			
14	Supply & Laying of Incoming power3.5core 35Sqmm 1.1KV grade Al-Armd UG Cable 1run from 1st floor VTPN Db box to 2nd floor 7Segment DB box, gland fixing and termination work for both sides with 10Kg SWG earthing work etc. UG Cable – Finolex or polycab XLPE make. Gland – Siemens or flange type. The materials should be got approved before comments of works.	10Mtrs			
15	Removing the Old UG cables & Main switches & DB boxes.	1set			

THIRD FLOOR

S.NO	Description	Qty	Amount		TOTAL
			Supply	Erection	
1	Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light, fan & Exhaust fan points were ever necessary by using 3way junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes,(added 1set of 10Switch, sockets with fan regulator Step type) including cutting of walls fixing of pipes and finishing etc. (Providing Lighting switch & boxes for each room - totally 12rooms) (Points consists of 1room, 1no-fan,Tube light - 3nos & Toilet room, Tube light - 1no,Exhaust fan - 1no) Wire-Finolex or Orbit makes. A.Light points B.Fan points C.Exchaust fan points The materials should be got approved before commencements of works.	Light -48 Fan - 12 Exhs -12			
2	Additionally supply & laying of 3Rx1.5Sqmm copper wire in a metal conduit pipe for light, fan and Exhaust fan points. Wire - Finolex or Orbit makes.	Running 350Mtrs.			
3	Supply & Laying of Incoming (Circuit point) 2Rx2.5Sqmm (RYBN) with neutral copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes from lighting DB boxes to 10A modular switch box, including cutting of wall fixing of pipes etc.,Wire - Finolex or Orbit make.	Running 500Mtrs.			
4	Supply & Laying of Incoming 2Rx4Sqmm (RYBN) with neutral	Running 600Mtrs.			

	copper wires &1Rx1.5Sqmm earth copper wires in a Metal conduit pipe of 25mm (H) with necessary bends, junction boxes up to A/C plug box and 2pole 20A MCB with 2pole MCB box (H&L) from lighting DB boxes to A/C Plug box, including cutting of wall fixing of pipes etc. (Providing A/C boxes for each room - totally 11nos) Wire-Finolex or Orbit makes, MCB & box - Legrand make.				
5	(Corridor & Steps)Supply & Laying of 3Rx1.5Sqmm Copper wire in a Metal conduit pipe of 25mm (H) with necessary bends at 25mm Metal conduit, for light points were ever necessary by using suitable junction boxes including 3plate ceiling rose etc, up to 10A modular switch & boxes (3set of switch boxes),(added 1set of 10A Switch & sockets) including cutting of walls fixing of pipes and finishing etc. Wire - Finolex or Orbit makes. A.Light points.	15points			
6	Supply & Erection of 8wayVTPV type DB Box (door type) -1no with provision of 1no MCCB – 63A 4p, 8nos of 32A 3pole MCB with 10Kg SWG earthing work & DB box base channel by using necessary accessories etc, Including cutting of walls & finishing works etc. DB–Legrand make, MCCB – Legrand make. MCB-Legrandmake. The material should get approved before comments of works.	1set			
7	Supply & Laying of Incoming power3.5core 50Sqmm 1.1KV grade Al-Armd UG Cable 1run from Main panel to 3rd floor VTPN Db box, gland fixing and termination work for both sides with 10Kg SWG earthing work etc. UG Cable–Finolex or polycab XLPE	50Mtrs			

	make. Gland–Siemens or flange type. The materials should be got approved before commencements of works.				
8	Excavation for 50 Sq mm UG cable trench of 900mm deep and back filling of trench with one layer of brick & 2layer of sand and refilling with excavate soil to its original level.	30Mtrs			
9	Supply & Laying of 300mm width ladder type cable tray from ground floor to Third floor (LHS & RHS) with support angles, and necessary accessories etc. The materials should be got approved before commencements of works.	Running 40Mtrs.			
10	Removing of Old Main Switches, DB boxes, Cables from 3rd floor etc.	1set			
		Total			

Electrical work Abstract

For Ground floor - Rs.

For First floor - Rs.

For Second floor - Rs.

For Third floor - Rs.

Gross Amount - Rs.