



Bangladesh Red Crescent Society

National Headquarters

684-686 Red Crescent Sarak, Bara Moghbazar, Dhaka 1217

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Ref. no.: HFRCMC/629/ 2026, Date-03/08/2026

Re-Request for Quotation (RFQ)

The Bangladesh Red Crescent Society invites sealed RFQs from bona-fide supplier/Firms/Dealer Company to submit the best price offer for **“Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel”** with supported by HFRCMC as per following terms and conditions:

1. Scope of supply:

Sl. No.	Name of the work	Description of Works	Target quantity of Work (No.)	Completion Period
1.	Supply, Installation & Commissioning of 13 Persons 1000kgs Passenger Lift.	Supply, Installation & Commissioning Works of 13 persons 1000 kgs Passenger Lift at Holy Family Red Crescent Medical College in 1, Eskaton Garden Road, Dhaka-1000.	01 No	7 month after receiving the work order.
Total			01 No	

Note: The above quantity may be increased or decreased with the final order. The products must be of sound, fair, and desired quality with existing shelters & fit for intended use. Detailed specification is attached in Annexure-A.

1. Availability of RFQ: Quotation with detailed information will be available from **03/08/2026** at the HFRCMC website: www.hfrcmc.edu.bd RFQ Schedule download link <https://www.hfrcmc.edu.bd/content.php?pdf=Notice>. Interested bidders are requested to download the RFQ schedule for the **Supply, Installation & Commissioning of 13 Persons 1000 Kgs Passenger Lift** favor of Holy Family Red Crescent Medical College.

2. RFQ Submission: Detailed information the RFQ can be downloaded from the website, signed and dated at the bottom of each page. RFQ will be received in RFQ box at Holy Family Red Crescent Medical College. of BDRCS, Dhaka latest by **12-00 pm on 11 August 2026** marking on top of envelop- **“Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel, HFRCMC, BDRCS”** and must be accompanied by all information/documents as per RFQ. RFQ will be opened at **12:15 pm on 11 August 2026** at the HFRCMC of BDRCS.



Delivery/installation destinations: Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel are to be delivered and must be useable at **HFRCMC, BDRCS, Dhaka**. Supplier shall be responsible for all costs arising from delivery and Fitting/Services/Installation of the **“Supply, Installation & Commissioning of 1000 kgs**

Lift for Female Hostel” to actual point of delivery, marking, loading, unloading, transportation and insurance. The BDRCS authority will inform the selected supplier of the detailed delivery plan (in written) and the supplier will be fully responsible to deliver completely fitting with services as per work order.

4. **Quality Criteria:** All the “**Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel**” must comply with the specifications and must be ready for operation. All the **Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel, BDRCS** must be in good condition and ready without any damage and interruption.
5. **Delivery/Completion Period:** The contract period for the work will commence immediately after signing the contract/receiving the work order. The Selected bidder will have to complete full delivery within 10 days or mutually agreed upon. **Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel BDRCS** must be completely Fitting & Fixing and ready to be operational at the destination as per delivery plan and schedule.
6. **Price:** Price should be quoted in the given format in **Annexure-A**, and as per **Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel** in BDT (Bangladeshi Taka) inclusive of all costs with registration cost, loading, unloading, transportation, packing, labelling (text), taxes, duties, levies and insurance etc. for delivery at the destination mentioned above in clause 7. Income Tax & VAT will be deducted at source as per Govt. rules at the time of final payment. In case of any arithmetical discrepancy between the unit rate and the total amount quoted, then the unit rate shall prevail for the evaluation of quotations and for the subsequent supply.
7. **Samples:** Please submit a sample of the **catalogue/brochure and the technical specification details** of the items (if available). Selected bidder shall be submit samples only.
8. **Validity:** Offer must remain valid for **30 days** from the date of offer. If the BDRCS needs to extend the delivery and delivery/installation period, the selected supplier must deliver **Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel** as per the same price and specification.
9. **Inspection:** Final quality quantity inspections to be carried out at the point of delivery by BDRCS selected team.
10. **Penalty Clause:** If the supplier fails to deliver the goods by the mentioned date in work order a penalty of Tk. 0.20% of the quoted price only per day will be deducted from the final bill & work order will be cancelled after max **10 days** of delay. If the supplier fails to deliver the **Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel HFRCCM** after 7 month of the delivery period, the contract will be null, and void and the security money will be forfeited besides other action for non-performance of the contract.
11. **Payment:** No advance or mobilization money shall be paid. Partial payment of amounting 50% of the total amount will be paid after receiving of materials at site. Final payment after successful completion of the whole Work. Payment shall be made within 30 days of receiving the commercial invoice and the work completion certificate from the HFRCCM Engineer and duly endorsed by HFRCCM concerned officials. or by mutual agreement between HFRCCM authority and Contractor(s). While collecting the payment, you must bring the money receipt and a revenue stamp of BDT. 10 (Ten) only.



12. **All or None Clause:** BDRCS reserves the right to accept or reject any or all offers, and the lowest bid need not be accepted without assigning any reason. Failure to comply with any of the above requirements will justify rejection of the quotation. Should your offer be accepted, you will be required to sign, stamp and return our formal Purchase Contract(s) confirming your acceptance of the agreed terms and conditions as per this RFQ.

13. **Conditions/Last Date for submitting offers:** Your quotation/offer must be submitted in the 'RFQ Box' located in the following address latest by **11 August 2026 by 12:00 pm.** to (address):

Principal
Holy Family Red Crescent Medical College
1, Eskaton Garden Road, Dhaka-1000

Please send your documents with marking on the envelop "**Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel, HFRCMC**". Please acknowledge receipt of this request and indicate your intention to bid.

14. **Meeting/Opening:** 11 August 2026 at 12:15 pm in the Holy Family Red Crescent Medical College. 1, Eskaton Garden Road, Dhaka-1000. in presence of one representative of each bidder, if any.

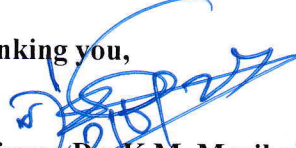
15. **Confirmation:** Please acknowledge your acceptance to bid by signing on the RFQ documents along with the terms and conditions and attach it with your quotation/offer.

16. **Terms and General Conditions:** Please state in your quotation very clearly your acceptance of Bangladesh Red Crescent Society (BDRCS) attached Terms and General Conditions.

If at any time during the supplying process the BDRCS determines that the supplier is in violation of the above-mentioned principles, that Supplier's request for registration or bid may be rejected as ineligible. In such case, all costs in relation to the cancellation of contracts shall be borne by the Supplier.

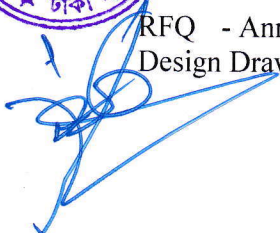
17. **General condition:** BDRCS reserves the right to accept proper quality and increase or reduce the quantity of goods and cancel the order in any violation of the terms and condition

Thanking you,


Professor Dr. K.M. Mozibul Haque
Principal

Holy Family Red Crescent Medical College, BDRCS
1, Eskaton Garden Road, Dhaka-1000




RFQ - Annex-A
Design Drawing- Annex-B



Bangladesh Red Crescent Society (BDRCS)
National Headquarter (NHQ)

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Supply, Installation & Commissioning of 1000 kgs Lift for Female Hostel, HFRCMC:

ANNEX-A

Summary of BoQ		
Sl no	Description/ Specifications	Amount (BDT)
1.	“Supply, Installation & Commissioning Works of 13 persons 1000 kgs Passenger Lift”	
Total cost BDT =		
In Word (BDT):		



RFQ: "Supply, Installation & Commissioning of 13 Persons 1000kgs Passenger Lift." at Holy Family Red Crescent Medical College, 1, Eskaton Garden Road, Dhaka-1000.

SL	Description/Specifications	Unit	Quantity	Rate (Tk.)	Amount (TK.)
	Supply Material up to 15th floor, Installation up to 8th Floor (with machine room), 1000 Kg (13 Persons) Passenger Lift.				
1.	Supply of following lift complete with car, BMS compatible control panel, traction machine (permanent magnet synchronous motor type), gearless, oil free, steel suspension rope, safety devices, guide rails, push buttons, transom, architraves with other necessary accessories etc. complete including counter weight as required, suitable for installation & use in tropical country like Bangladesh (considering ambient temperature from 0° C to 46°C and relative humidity from 40% to 98%) & as per detailed specifications and standards as mentioned below herewith:				
	Brand Country of Origin & Manufacture :				
	Brand: KONE/ MITSUBISHI/OTIS/ Schneider/ TKE/ FUJITECH/ HITACHI/HYUNDAI/LG. Country of origin/ assembling country: Finland/ France/ Germany/ Japan/ Korea/ Switzerland/ USA & CHINA. Provided the lift manufacturing company shall have Multi-continental manufacturing plants and shall have Lift manufacturing capability for speed 10 m/sec (minimum), regular production with polyurethane coated steel belt/ultra rope & Regenerative drive technology. Besides, it shall have lift manufacturing experience for a period of not less than 65 years in its particular manufacturing plant where proposed brand of lift will be manufactured. Warranty: 5 years service warranty with replacement warranty for faulty parts by written agreement.				
	The proposed lift manufacturing company shall have its own testing tower at factory premises and R&D (Research & Development) wing/centre. Besides, its manufactures major				



		components like PMS (Permanent Magnet Synchronous) type gearless motor, polyurethane coated steel belt and regenerative drive, controller, inverter, motherboard, door inverter & all PCBs (Printed Circuit Boards) in its own Factory.				
		Detailed Specification of Lift:				
	I	Type: Gearless, oil free, permanent synchronous motor driven type passengers lift.				
	II	Capacity: 1000 kg. (13 Passenger)				
	III	No of Stops: (15 Stops)				
	IV	Travelling Speed : 2 m/s				
	V	Car Travel height: 50.3 Meters (Approximate)				
	VI	Floor Designation: G,1,2,3,4,5,6,7,8,9,10,11,12,13,14				
	VII	Power Rating: Compatible with the capacity of the lift as mentioned above with 240 stars per hour minimum (180 stars per hour minimum in case of speed up to 1.0 m/sec)				
	VIII	Number of Entrances: 1/2 Nos arranged in the same line				
	IX	a. Shaft Size: 1890 mm (Width) x 2640 mm (Depth) b. Cabin Size: 1100 mm (Width) x 2000 mm (Depth) x 2400 mm (Height) (Approximate).				
		The dimensions to be inserted as per requirement mention in the standard chart given below or as per built-in shaft size				
	X	a) Pit Depth : 2200 mm b) Overhead Height : 5200 mm [to be selected from chart]				
	XI	Machine Room Location: Directly above hoist way: MR (Machine Room)				
	XII	Power Source : 400 Volt. (+10%), 3'Phase. 50Hz.				
	XIII	Light mains : 230 Volt. (+ 10%), single 'phase 50Hz.				
	XIV	Signal Source : 24 volt. D.C or as designed.				
	XV	Operation System : Simplex System				
	XVI	Control System:				
		Collective selective with fully programmable microprocessor control, BMS compatible, designed for optimum, efficient & energy saving elevator operation. All controls shall always be equipped with an alarm device in machine room, control room and other suitable places as per direction of the Engineer-in-charge. Variation in speed of the lift between no load & full load				



		conditions shall not be more than +/- 10%. The control system shall be capable of correcting any tendency to over speed or under speed, shall have safety devices to stop the car if it's running speed exceeds it's rated speed by 20%. The car stopping & levelling system shall be unaffected by external influence like variation in load, temperature and rope elongation etc. There shall be enhanced protection mechanism to address the risk of the car moving away from the landing and the requirement for protection against ascending car over speed. The drive control system with Thyristor IGBTs (Integrated Gate Bipolar Transistors) controls acceleration & deceleration getting feedback from encoder and shows information & data in LED display. The controller must be manufactured as per drawing & design by the proposed Brand of Lift manufacturing company. Test certificate of the control system shall be furnished during execution of work.				
	XVII	Additional controls & accessories :				
		*Over load control with indication lamp & buzzer/indication & buzzer. *Full load control with indication. *Attendant control. *Fire man's control switch at ground floor. *3 station, (2-way) inter-communication system between the car, machine room & other suitable place. *Door close/open button in the car. *Sensor switch in the car for light & fan. *Line flow Fan fitted on drop ceiling for sufficient air flow. - detection system in Lift Shaft pit				
	XVIII	Maintenance control : Car stop station with:				
		*An initiation switch*One up & down button*One stop button				
	XIX	Traction Machine:				
		Gearless, Oil free, permanent magnet synchronous motor (class of insulation: F) which must be manufactured as per drawing and design of the lift manufacturing company.				
	XX	Drive System :				
		Inverter operated A.C. Variable Voltage, Variable frequency (AC-VVVF) drive system with the following features: * Microprocessor based steeples controlled, electronically regulated during acceleration &				



		deceleration with floor approach * Electromagnet operated holding brake to be applied only after the car comes to a stand still, * The capacity of the VVVF drive shall be minimum 20% higher than the optimum full load capacity of the driven motor of the lift. * The microprocessor shall be of adequate bit data processing industrial class controller for commercial/residential/hospital/ observation lifts, with CAN bus serial Communication mode, suitable for 0.63-4.0 m/s elevator speed for synchronous / asynchronous traction motor. having analog/digital and multi spaced function, load weighing compensation function. strong electromagnetic/ electrostatic anti-Interference ability * The entire control system of the lift shall be designed and manufactured in such a way that appropriately synchronizes the whole system * Test certificate of the drive system shall be furnished by Contractor during execution of work				
	XXI	Smooth levelling				
		The lift shall be provided with automatic self-levelling feature to ensure automatic aligning the car with the floor landing within maximum tolerance of (+/-) 5mm under normal loading & unloading conditions. Self-levelling will be entirely automatic & independent of the operating device & shall correct the over travel, under travel & rope stretch.				
	XXII					
	a)	Cabin Floor:				
		Securedly fastened sheet steel sound isolated platform made of the fire resistant and weather resistant sound absorbing synthetic materials that should be of as standard french classification M3, i.e. fire classification requirement cfl, s2 according to EN13501-1				
	b)	Car Frame & Safety:				
		Car body Passenger type made of entirely structural sheet steel (304/441 grade) assembly to safely support the rated load of the cabin & accessories with elastic isolators between metal parts to ensure low vibration & low noise during car travel with natural ventilation arrangement in ceiling & floor.				



c)	Car Type :				
	Made of entirely Stainless steel 304 / 441 grade				
d)	Car Body and Roof:				
	Car body and roof: The car body shall be of sufficient mechanical strength to resist accidental impact. The roof shall be capable of supporting two persons or minimum load of 150 kg. The platform shall be made of sheet steel. The enclosure height shall be 2400mm minimum below suspended ceiling.				
e)	Cabin Walls				
	The material shall be of standard as French Classification M2 i.e. fire classification Cs2.d1 as per requirement according to EN13501-1 & it shall be 1.5 mm thick sheet steel with 0.7mm (minimum) stainless steel sheet walls with stainless steel etching hairline/mirror/hairline/digital print/ synthetic wood/laminated wood finish in sections having in front, rear & side walls as per manufacturer's standard design to be to be such that the door shall withstand under an applied load of 300N without permanent deformation > 1mm and without elastic deformation > 15mm. Under an applied force of 1000N, all types of doors shall withstand without permanent deformation > 10mm. The devices providing mechanical linkage between panels shall withstand to the force of 1000N. A mechanical device shall prevent the door panels from disengaging from their guides.				
f)	Cabin Door Transparent :				
	Fully automatic heavy duty center/side opening horizontal sliding door panel of 10mm thick tempered glass door with all necessary accessories as per standard specification.				
g)	Car Ceiling:				
	Anodized metal framed with decorative stainless steel luminous ceiling by LED light of 100 Lux in normal mode at 1m above the floor and 5 Lux in emergency mode for 1 hour at 1m at the centre of the car and near the emergency push buttons Synthetic glass with diffused motion sensor LED lighting/any other options selected by the Engineer in charge.				
h)	LOP & COP:				
	Metallic structures call button LED panel with indication system on each				



		landing, digital car position indicators. arrival gong & direction indicators/arrows to be installed above or at the side of the landing doors at all landing & inside the car. Car Operating panel board to be installed inside the car. Manual call cancellation system should be incorporated inside lift car OPB. The centre line of the hall call buttons shall be at a nominal height of 01 meter above the floor.				
	i)	Other Cabin Features:				
		3 (Three) hand rails of smooth stainless steel of minimum 100 mm. width & 12 mm thickness or 30 mm dia round shape. *Mirror on full rear wall of car from top to hand rail. *Re-tractable both safety shoes for the full height of the door which reopens the door when it is obstructed by any object while closing. * Emergency exit with safety contact in car roof, the trap door can be opened from inside and outside the car. *A door reversal feature in case of obstruction of door *Concealed fan(s) fitted on ceiling for adequate forced ventilation of 20 air change per hour for Pandemic or non pandemic situation with better ventilation (suitable for tropicalised country like Bangladesh) to create comfortable environment for the passenger.				
	XXIII					
		a) Door: Door size, type and dimension will be as per data mentioned above. (HxW) =2100mm x 950mm (approx.)				
		b) Doorsills: Doorsills shall be extruded aluminium with anti-slip grooving with guiding slots.				
		c) Door Operation: High-speed heavy-duty ACVVVF inverter operated door operator with adjustable speed for opening and closing, Door will be driven by quiet AC motor connected to an inverter operated door operation system, Car and landing doors will be open and close in full synchronization being connected to each other. The landing doors will have Electro-mechanical locks. Each landing door will be provided with positive interlock operated by a coupling on the car door and shall prevent the movement of the car away from the landing unless both doors are closed and locked. The interlocks will be				



		designed to prevent opening of the door except at the landing, at which the car is stopping or has stopped. The door closing speed shall be reduced and an audible signal notifies users of a fault or the elevator will be stopped. A mechanical device prevents the door panels from disengaging from their guides. Also shall have: * Door detection system with Curtain of Light Mechanism* Enhanced control for Lift Car Door locking system that aims to prevent the doors from being opened from inside when the car is outside the unlocking zone.* The door closing speed shall be reduced and an audible signal notifies users of a fault or the elevator will be stopped. There shall be door pressure limit sensor.* A mechanical device prevents the door panels from disengaging from their guides.* Name of the door manufacturer to be mentioned in the door.				
	XXIV	Safety features: Non contact electronic full height door safety sensor, power supply, auto phase reversal correction, friction clutch to avoid passengers to be trapped between doors.a) Emergency unlocking of door from landing for evacuation as well as for maintenance with a special key. b) Facilities for opening of door from inside the car within the landing during power failurec) During power failure, Manual opening of doors from inside the car is possible within landing zone.d) A friction clutch to avoid passengers to be trapped between door.e) A door reversible feature in case of obstruction of door.f) In cases where installation of a safety hatch on the car roof is required, its dimension shall be of minimum clear opening 0.4mx0.5m, where the toe guard shall withstand applied force of 300N without permanent deformation>1mm and without elastic deformation 35mm.g)The brakes shall have self checking arrangement.h)Under an applied force of 1000N, the shaft walls shall withstand without permanent deformation > 1mm and without elastic deformation 15mm, without permanent deformation in the case of laminated glass type walls.i) For safety of technicians, the safety refuge at top of the shall shall be 2.0mx 0.4mx 0.5m(HxPxL) for standing, and 1.0mx0.5mx0.7m(hxPxL) for Couching. Additional authorised position in the pit				



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		shall be 0.5mx0.7mx1.0m (HxPxL) considering laying condition. Car roof itself should also have an anti slip working surface.j) Shaft lighting should provide a minimum of 50 Lux one meter above the car roof vertically, 1 meter above the pit floor everywhere a person can stand, work or move between work areas and 20 lux elsewhere excluding any shadows.k) The lift machine room should have a lighting of a minimum 200 Lux.l) Emergency lighting on the car roof must be sustained at 5 lux for one hour.				
	XXV	Guide Rails: Guide rails shall be continuous throughout the entire length right from the bottom of the pit floor to the top most floor served, plus additional length as may be required for smooth operation or equivalent fixing devices shall be provided which are of such design & spacing that rails shall not deflect more than 4 mm under normal condition. The relevant fixing devices such as brackets, clamps etc shall be of such design & spacing that rails shall not deflect more than 4 mm under normal working condition. The dimension of the guide rails (both main and counter weight guide rails) shall be as per latest version of EN-81 standards.				
	XXVI	Suspension Rope: Main rope shall be of bright steel wires minimum 8mm dia or as per manufacturer's design with fiber/ham core having a safety factor at least 14 (for Lift type B & D)/Polyurethane coated steel belt (for Lift type A & C).*The rope suspension is to be constructed to shut the lift downIf one or more suspension ropes become slack.*The over Speed Governor rope shall be of bright steel wires minimum 6mm dia or as per manufacturer's design having a safety factor at least 8.				
	XXVII	Speed governor & safety gear: Gradual type safety gear actuated by the speed governor to be installed in the machine room above the hoist way/inside the head room in order to stop the car quickly & safely in case of exceeding 20% of designed speed during down up both wards travel for any reasons (ie, breakage of all suspension elements). - Suitable means will be supplied to cut off power from the motor and apply brake on application of the safety.				
	XXVIII	Counter weight condition: Car and counter weight guide rails shall be made				



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21/5/22

		as per International Standard and shall have working surface machined & smooth. There shall be counterweight safety gear in case of floating i. Buffer: Energy absorbing oil buffer for speed more than 1m/sec, oil/spring buffer for speed less than 1m/sec shall be mounted in pit beneath the car & counter weight with suitable concrete foundation ii. Pre & final limit switch: To disconnect the controller from electric power supply if the car over travels higher at the top or lower at the bottom terminal landing.				
	XXIX	Traveling cable, wiring: Traveling cables having conductors adequate in size & number. - All electrical cables shall be fire retardant and shall go through PVC conduits in machine room & shaft. The circuit, wiring cable of the motor shall not run through any pipe used in connection with the wiring for the control and safety devices.				
	XXX	Automatic Rescue Device (Online): Built-in Automatic Rescue Device set (ARD online) set as per capacity of lift set with following specification, providing and fixing automatic rescue device (online ARD) of Lift set offline the specification travelling height 3.5 m to 7.0 m. Drive system: min 3 times/h and starting time after min 20 sec & max 40 sec that can be set automatic running the lift. Direction: up or down which side is heavier Battery: Maintenance free Sealed Gelled/AGM battery or equivalent suitable for minimum three rescue operations without recharging and complete as per direction of the Engineer-in-Charge				
	XXXI	Painting: All exposed ferrous metal parts of machine. car, doors and other materials in the hoist way) including guide rail fixation brackets (except guide rails) will have one coat of factory rust protecting paint.				
	XXXII	Operation and Maintenance Manual: 4 (Four) sets of detail operation & maintenance manuals. catalogues. spare parts catalogues with part number. control wiring diagrams and soft copy etc. shall be included to the supply of lift & the language shall be in English.				
	XXXIII	Standard/conformity: The entire lift shall be designed & manufactured as per latest version of EN-81 standards, EN-81-20.				



		EN 81-50. The safety components, such as, progressive safety gear, door locking devices, buffers, over speed governor, car over travel protection system, door inter-locking device, pre and final limit switches of the proposed lift shall be in conformity with latest version of BNBC, BS EN-81/EN-81(Lift Directive 95/16/EC)/DIN/VDE/ANSI/ASME A17.1/JIS standards & safety codes. Installation, testing and Commissioning of the lift shall also be in conformity with the above standards & codes. Certificates issued by internationally recognized authorities like TUV/DNV for the product(s) (At least the safety components such as, progressive safety gear, door locking devices, buffers, over speed governor, car over travel protection system, door inter locking device, pre and final limit switches) of the manufacturer(s) as per above mentioned relevant valid regulations, codes and standards shall have to be submitted by the bidder. The above certificates shall have to be authenticated by the Chamber of Commerce/Ministry of Commerce/Foreign Ministry of the manufacturing Country. Relevant 150 certificate(s) of the manufacturer including lift ride quality measurement ISO 18738/5 shall also have to be submitted by the bidder.				
	XXXIV	Architraves: Providing, fitting & fixing of wide jam architraves as required in front of lift door made by smooth stainless steel mirror polished/mirror finished sheet shall be 1.5mm thick in/c. fabrication, riveting, the same complete as per sample accepted/approved by the Engineer in charge.				
	XXXV	Spare Parts: Should be written confirmation along with bid documents about the availability of spare parts as per requirement.				
	Sub Total :	Passenger Lift 1000kg (13 passengers) 2m/s speed, up to 15-stops	No	1		
2.		Installation, testing and commissioning of the above lift including supplying of necessary fixing materials. Architrave & transom : Stainless Sheet steel mirror/harrline finish architrave covering the door entrances sides and transom covering the top about 400mm for main				



entry & Narrow architrave Mirror /Hairlinefinish for typical floor. Stainless steel (Steel grade : SUS 304 /441) mirror/Hairline finish. Transom Panel shall be provided at main entry. Architrave for Ground Floor. Made of hairline or mirror polished stainless steel (Steel grade: SUS 304/441). Architrave for typical floor: Narrow jamb made of hairline or mirror polished stainless steel of minimum 50mm x 50mm size. Transom for Ground Floor : Made of hairline or mirror polished stainless steel as per width of door entrance top, shaft lighting with wirings, additional works on base foundation (if necessary) for machineries and painting of all parts and initial lubrication shall be carried out as per BSEN . 81 /EN-81.21(Lift Directive 95/16/EC)/DIN/ VDE/ ANSI/ASME A17,I/JIS For ride quality measurement, ISO 18738/5 is to be followed (noise in car at it's highest speed not more than 60 dBA. maximum horizontal vibration at car platform at highest speed shall be 20dBA, maximum vertical vibration at car platform at highest speed shall be 30dBA). The supplier /installer shall carry out 16 hours per day trial run operation for 30 (thirty) days before handing over the lift to the competent authority. All electrical and civil works mending good the damages in connection with installation of the lift shall be carried out in accordance with the provision of the Bangladesh National Building code, latest Bangladesh Electricity Rules, Regulations & PWD specification. All non-current carrying metallic enclosure of electrical materials/equipment yiz. electric motor frames, control panel, other metallic cases, door, call and control button, car switch, limit switch, junction boxes & similar electric fittings shall be properly connected to the earthing system. All the works in this regard shall conform to general standards, codes and specifications of PWD. The bidder shall ensure to use steel scaffolding items (preferably) avoiding bamboo, barricade, lifeloine, safety shoes. Helmet, Gloves, Goggles and all the safety measure as per international safety codes for workers, supervisors and others during the installation period. (For Passenger Lift)

**Sub
Total :**

**For 1000kg up to 8 stops (with
machine room)**

Job

1

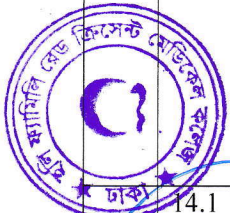
3.	AVR				
	Supply, installation, testing & commissioning of following 415V, 3-phase, 50Hz electronically controlled, automatic voltage stabilizer/regulator locally assembled in metallic painted cabinet suitable for input voltage range 300 - 460V, output stepples continuous voltage 400V $\pm$ 3%, correction speed 20V/sec. (minimum) complete with phase failure and spike & surge-fluctuation voltage protection, auto shut off at high & low voltage with auto reset system, overload & instantaneous short circuit protection by MCCB & relay, transient suppression circuit, ON-OFF-TRIP indicators, voltmeter & ammeter, bypass circuit etc.				
	Assembled by AEG/ MICRO/ NAVANA/ RAHIMAFROOZ or equivalent accepted/approved by the Engineer.				
	For Lift 1 (40KVA)	No.	1		
4.	Joist				
	Providing fitting & fixing of joist or support beam between two lift shafts with ncy, materials in/c. Fabrication, fittings, fixing, riveting, welding, hoisting by rivets, bolts etc. & painting the same complete, (I-section size 300 mm x 150 mm & shall be 10 mm thick M.S plate) as per sample accepted/approved by the Engineer in change.	Rm	32		
5.	Mirror				
	Supply, fitting and fixing of 5 mm thick unframed super quality doubled coated mirror with all necessary fitting including making holes in wall and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge	Sqm	1.6		
6.	Mirror Frame				
	Supply, fitting and fixing of 3" thick Gorjon wood frame with leaker paint finish	Sqm	1.6		
7.	CCTV Camera :				
	Supply, fitting and fixing of Night Vision IP Camera with Standard Accessories (NVR4 Channel, IP Camera-1, Monitor-1 POE 4 Ports Switch-1, HDD 1TB- 1, CAT 6 Cable- As per requirements.				



8.		DB -LIFT-1 (From ELT Panel (LIFT-1)				
		Board (DB Board)				
		Supplying and fixing of almirah type 18 SWG metal board of depth 228mm (6") duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) having built in push type / suitable locking management including metal bridges of suitable size for fixing of all electrical control devices complete with suitable anchoring arrangement in wall / column and keeping provision for cable inlets and exits as required (only front surface of the board will be considered for measurement) accepted/approved by the Engineer-incharge				
	8.1	G.P. Sheet Board (From LT Panel- DB-Lift GF)	Sqm	0.25		
		Supplying and fixing of surface / concealed 18 SWG G.p. sheet board of 76.2 mm(3") depth(with open front) duly painted inner & outer surfaces with gray enamel paint, anchoring arrangement to be fitted in wall (only back surface of the board will be considered for measurement).				
		Box Size: H-500mm x W-500mm x D-200				
9.		TPMCCB (Incoming 1 for inside LT Panel & 1 for DB-Lift GF)	Each	2		
		Providing & fixing on a prepared board 500 volt grade following triple- pole molded case circuit breaker (TpMCCB) with thermal overcurrent and instantaneous electromagnetic short circuit release provision, manufactured / Assembled and tested in accordance with IEC / VDE / Manufactured NEMA / BS / JIS along with relevant BDS IEC standard				
	9.1	100 Amps. (Minimum 16-KA)				
10.		Busbars (for DB-Lift GF)	Each	1		
		Providing and fixing 500 V 3-phase busbar system assembled in prelaid board with porcelain insulators. There will be equal size holes on every bar at 0.5" interval and bar to bar gap shall be 2" - 3"				
	10.1	60-100 Amps.				
		Copper flat bar (5 nos):4 nos 9" x1"x3mm and 1 no 4"x1"x4mm for earthing mounted on insulator at both ends individually.				



11.		TPMCCB (Outgoing for DB-Lift GF) Providing & fixing on a prepared board 500 volt grade following triple- pole molded case circuit breaker (TpMCCB) with thermal overcurrent and instantaneous electromagnetic short circuit release provision, manufactured / Assembled and tested in accordance with IEC / VDE / Manufactured NEMA / BS / JIS along with relevant BDS IEC standard				
	11.1	50 Amps. (Minimum 16-KA)	Each	2		
	11.2	50 Amps. (Minimum 16-KA) for spare	Nos.	1		
12.		G.P. Sheet Board (From DB-Lift GF to DB-Lift Roof)	Sqm	0.25		
		Supplying and fixing of surface / concealed 18 SWG G.p. sheet board of 76.2 mm(3") depth(with open front) duly painted inner & outer surfaces with gray enamel paint, anchoring arrangement to be fitted in wall (only back surface of the board will be considered for measurement).				
		Box Size: H-500mm x W-500mm x D- 200				
13.		TPMCCB (Incoming 1 for DB-Lift Roof)	No.	1		
		Providing & fixing on a prepared board 500 volt grade following triple- pole molded case circuit breaker (TPMCCB) with thermal overcurrent and instantaneous electromagnetic short circuit release provision, manufactured / Assembled and tested in accordance with IEC / VDE / Manufactured NEMA / BS / JIS along with relevant BDS IEC standard				
		50 Amps. (Minimum 16-KA)				
14.		Busbars (DB-Lift Roof)				
		Providing and fixing 500 V 3-phase busbar system assembled in prelaid board with porcelain insulators. There will be equal size holes on every bar at 0.5" interval and bar to bar gap shall be 2" - 3"				
	14.1	60-100 Amps.	Set	1		
		Copper flat bar (5 nos):4 nos 9" x1"x3mm and I no 4"x1"x4mm for earthing mounted on insulator at both ends individually'				



15.		TPMCCB (Outgoing for DB-Lift Roof) Providing & fixing on a prepared board 500 volt grade following triple- pole molded case circuit breaker (TPMCCB) with thermal overcurrent and instantaneous electromagnetic short circuit release provision, manufactured / Assembled and tested in accordance with IEC / VDE / Manufactured NEMA / BS / JIS along with relevant BDS IEC standard				
	15.1	50 Amps. (Minimum 16-KA)	No.	1		
	15.2	50 Amps. (Minimum 16-KA) for spare	No.	1		
16.		Surface Wiring (FR) (Through PVC Conduit)				
		Surface conduit wiring with the following Fire & Flame Retardant (FR) (PVC) insulated and stranded cable and FR (PVC) insulated ECC wire connecting at both ends through PVC conduit of reputed manufacturer complete with 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover' fixing materials' other accessories etc. including mending the damages good as required' All electrical contacts shall be of brass/copper/connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested accord rig to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-I. The work shall be carried out as per direction & approval of the Engineer In Charge.				
		Cable should be certified from KEMA KEUR and BASEC				
	16.1	1C-4x16 Sqmm (FR) With 16 Sqmm (FR) As ECC	Rm	35		
	16.2	1C-4x50 Sqmm (FR) With 25 Sqmm (FR) As ECC	Rm	320		
17.		PVC Pipe (Conduit Work)				
		Providing & laying of following PVC pipe (best quality PVC pipe of reputed manufacturer) embedded in wall / column / ceiling / floor etc. with all accessories, 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials etc. as required including mending the damages good.				
	17.1	Minimum inner dia 40 mm & minimum wall thickness 2.2 mm.	Rm	30		
	17.2	Minimum inner dia 65 mm & minimum	Rm	300		

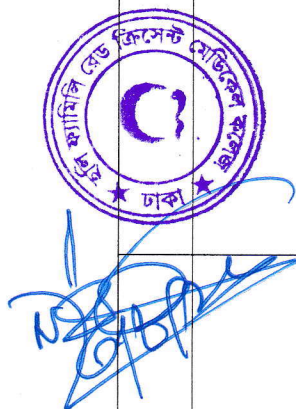
		wall thickness 2.5 mm				
	17.3	40 mm dia PVC Flexible pipe	Rm	15		
	17.4	65 mm dia PVC Flexible pipe	Rm	80		
18.		Quantity for Civil Works				
		Dismantling of 125 mm brick wall works of building all floor without any damages for reuse (as per possible) by any means, removing the debris to a safe distance or preselected place, carrying the salvaged to the store yard of the department or anywhere as directed etc.	Sqm	15		
19.		Taking off plaster (all floor) from wall surface for the purpose of tiles work lamination including any type of skirting /dado by manual means without using any electro-mechanical equipment racking out joints, cleaning surfaces by soft-brooming, providing provision for safety, maintaining tolerable sound level and minimizing dust hazard, in constrained conditions / limited scope of work to utilise full capacity of manpower and removal of debris and slacked in a safe place within the campus/ project site area as per directions and acceptance by the Engineer in-charge	Sqm	47		
20.		Minimum 12 mm thick cement sand (F.M. 1:2) plaster (1:4) with fresh cement to both inner-and outer surface of wall (all floor), finishing the corner and edges including washing of sand. cleaning the surface, curing at least for 7 days cost of water electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.	Sqm	20		
21.		Interior standard acrylic emulsion paint (plastic or matt finish-all floor) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified	Sqm	20		



		brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in charge.				
22.		Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 125 mm in foundation and superstructure and removal of debris to a safe distance. (for joist installation purpose)	sqm	5.58		
23.		Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum f _{cr} = 26 MPa, satisfying a specified compressive strength f _c = 19 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including conducting necessary tests, breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (for joist installation purpose)	cum	0.76		
24.		Supply, fabrication and installation of 12mm dia Adhesive Chemical Anchor Bolt all complete as per drawing, specification and direction of the	Each	170		



		Engineer-in-charge				
25.		Supply and application of Epoxy based corrosion protection paint to the surface of the structural steel members conforming to SA 2.5; the corrosion class shall be C3 in accordance with BS EN ISO 12944-2 and durability class in accordance with BS EN ISO 12944-5; the Steel members to be shot blasted inside the enclosed shot blasting chamber, final coat paint must be applied on site after installation, including the cost of primer, testing and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	240		
26.		Tiles, Marble And Granite Stone Works				
		Supplying, fitting and fixing country made GP (Gress Porcellanto)-glazed or unglazed homogeneous floor and wall tiles complying BDS ISO 13006:2015, water absorption $\leq 0.5\%$, modulus of rupture (MOR) $\geq 27\text{N/mm}^2$, irrespective of color &/ or design, with 20mm thick cement sand (F.M.1.2) mortar(1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc.all complete and accepted by the Engineer-in-charge. (Cement:CEM-II/B-M). In ground floor				
	26.1	GP (homogeneous) 300 mm x 600 mm floor tiles	Sqm	20		
	26.2	GP (homogeneous) 300 mm x 600 mm wall tiles	Sqm	70		
27.		Split Type Air-Cooler (For Lift Machine Room)	Each	2		
		Supply, installation, testing & commissioning of split type air-cooler with inverter comprising condensing and evaporating units having following cooling capacity based on indoor temperature $27^{\circ}\text{--}30^{\circ}\text{C DB}$ / $19.5^{\circ}\text{--}22^{\circ}\text{C WB}$ and outdoor temperature $35^{\circ}\text{--}40^{\circ}\text{C DB}$ at high fan speed condition suitable for installation & operation in tropicalized country like Bangladesh & as per detailed specifications & standard as mentioned below :				
		Outdoor Unit / Condensing Unit (1). Type : Compact weather proof outdoor type condensing unit(2). Compressor : Hermitically sealed reciprocating / rotary compressor.(3). Refrigerant :				



		Internationally accepted & recommended and most commonly used gas (CFC free)(4). Blower motor : Well balanced type direct driven centrifugal type blower fan(5). Power supply : (5.1). 200-250 V, single phase, 50 Hz. AC supply [up to 30000 BTU/HR](5.2). 380-440 V 3-phase, 50 Hz. AC supply [above 30000 BTU/HR]				
		(6). Condensing pipe / coil : Made of copper 7). EER/COP : For upto 60000 BTU/HR EER should be minimum 9.23 (BTU/HR)/WATT and COP Should be minimum 2.70 (W/W) For above 60000 BTU/HR EER should be minimum 10.5 (BTU/HR)/WATT and COP should be minimum=3.08 (W/W)(8). Others features : (8.1). Well balanced in all respect having interlock with the fan coil unit.				
		(8.2). Compressor dully equipped with vibration isolator, thermostatic & overload controls, magnetic contactors and all other standard accessories complete. (8.3). Refrigerant copper pipe [From outdoor to indoor unit] with thermal insulation, reliigerant charging arrangement etc. [Minm length 10 mtr.] (8.4). Reqd. size PVC insulated & sheathed cable wire ECC through water grade PVC pipe from outdoor to indoor unit. (8.5) Sound level : maximum 65 dB(A) at 1 meter				
		Indoor Unit/Fan Coil UnitFeatures : (1). Direct expansion system fan coil unit with well balanced direct driven centrifugal type fan.(2). Fancy & adjustable air circulating louver grill. removable & washable type filter.(3). Condensing water drain out PVC flexible pipe with necessary insulation(4). Thermostatic switch and remote control switch.(5). Sound level : maximum 44 dB(A) al 1 meter				
		Standard : Major component shall be manufactured as per relevant interactional standard & code. Documents: Manufacturing company shall have the following confiscate: (1). ISO-9001. 1). CE (Certification/ UL Listing.				



		Warranty : The bidder should provide the guaranty of compressor for at least 2 years & free service with sparks for 2 years from the date of commissioning & it should be obtained from the air cooler selling agency.				
		The cost includes Refrigerant piping between outdoor unit to Indoor units, drain piping, Power cabling from ACDB and control Cabling between Room Thermostat & Indoor units.				
		Any brand manufactured or assembled in JAPAN / MALAYSIA / SOUTH KOREA / TAIWAN / THAILAND / USA / EU countries accepted / approved by the engineer in accordance with fulfilment of the above specifications and having relevant certificates as mentioned.				
		After installing an air conditioner, any type of hole or gap, especially around the pipes, cables, or wall penetrations, should be filled with foam. Then, plaster and paint should be applied to repair and finish the area properly.				
	27.1	Capacity : 18000 BTU/HR (1.5 Ton of Refrigeration)				
		Wall mounted (Inverter Type)				
Total Amount of Tk. =						



Bidder Signature :

Name :

Name of the Firm :

Address :

.....

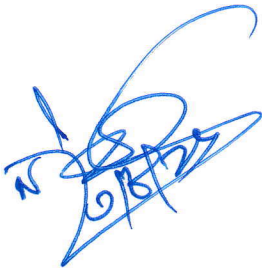
Cell Phone:

E-mail (if yes):

(Organization stamp)

Annexure-B

Drawing and Design (Attached)

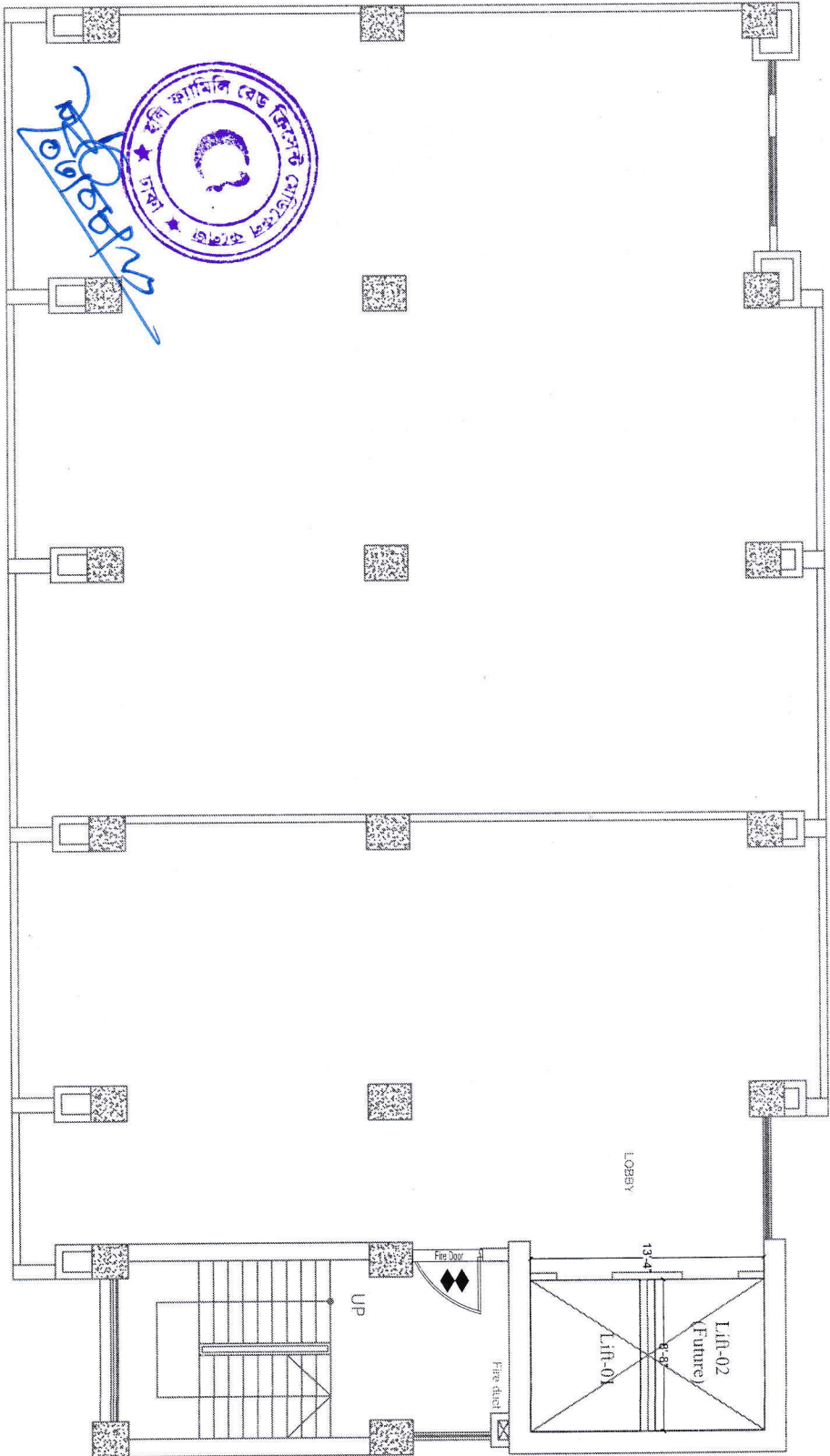
A handwritten signature in blue ink, consisting of stylized, overlapping loops and lines.

List of Drawing	
Dwg. No.	Description
VTs-00	Cover Page
VTs-01	List of Drawing Legend, & Symbol
VTs-02	Ground Floor Plan Layout
VTs-03	1st to 7th Floor Plan (Typical)
VTs-04	Roof Plan Layout
VTs-05	Schematic Diagram of Vertical Transportation System
VTs-06	Electrical Circuit Diagram
VTs-07	Standard Detail Drawing
VTs-08	I-Beam Details
VTs-09	Plate Details

Legends	
Symbol	Description
●	Start/Stop

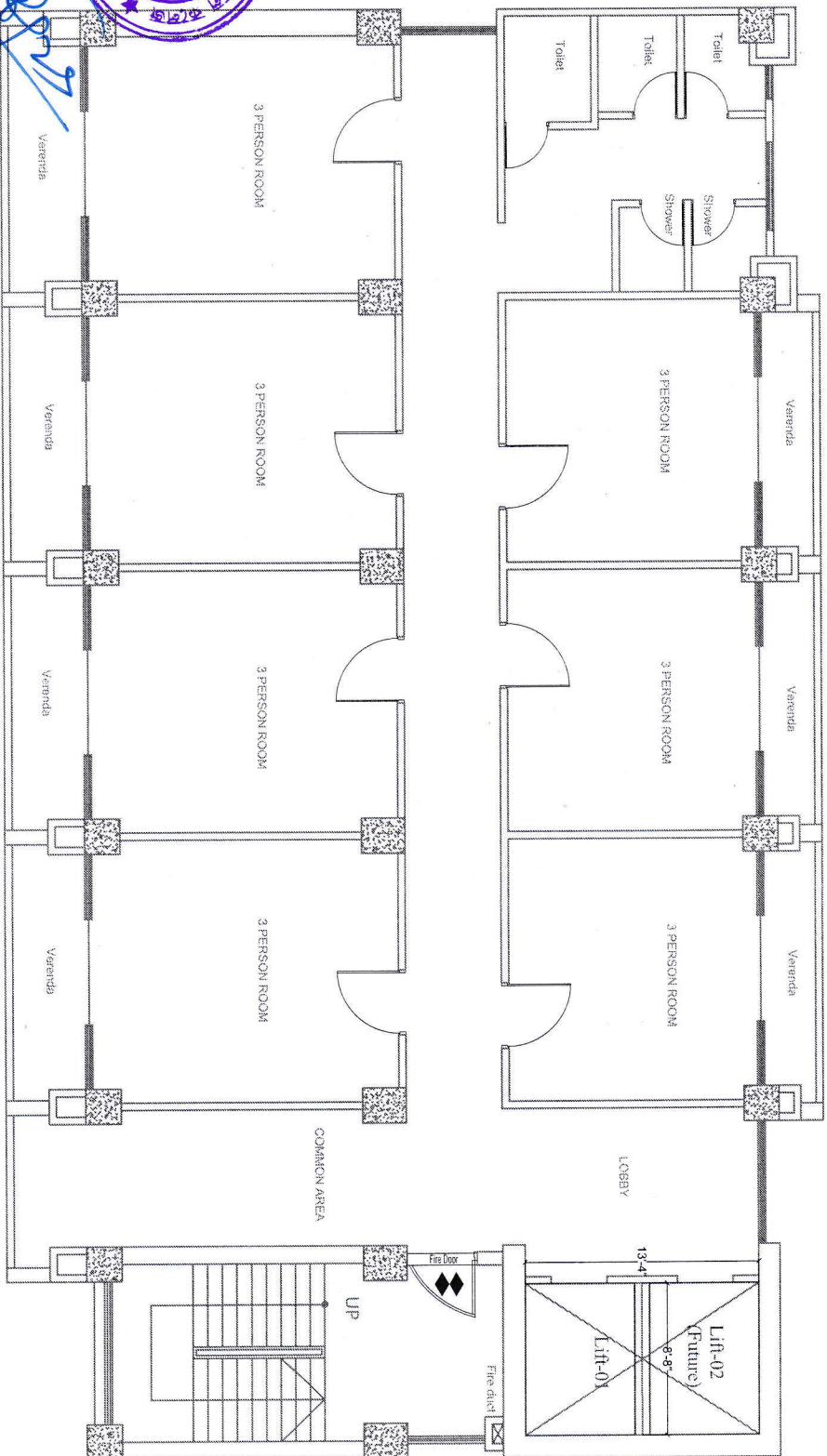
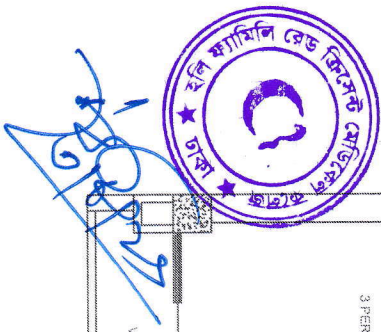


Signature



1 Ground Floor

- Passenger Lift
Capacity: 1000kg (13 Persons)
Speed: 2m/s
Pit Depth: 2220mm
Overhead Height: 5200mm
Shaft Dimension:
(WxD)-1890mmx2640mm
- Note:
1. As per BNBC 2020 Required
for 13 Persons Lift is (WxD)=
1900mmx2500mm
2. As per BNBC 2020 Required
for 16 Persons Lift is (WxD)=
2100mmx2500mm

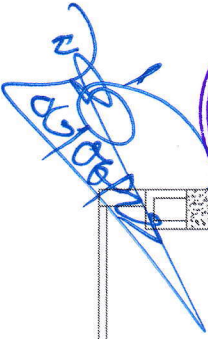


1st to 7th Floor Typical

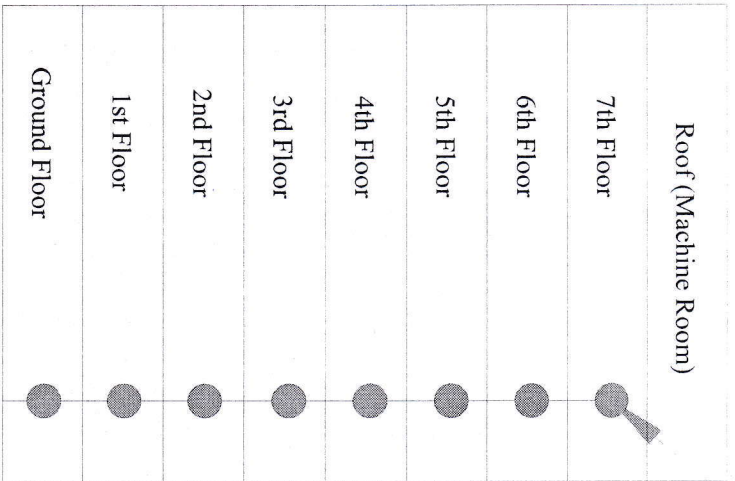
Passenger Lift
Capacity: 1000kg (13 Persons)
Speed: 2m/s
Pit Depth: 2200mm
Overhead Height: 5200mm
Shaft Dimension:
(WxD)-1890mmx2640mm

Note:

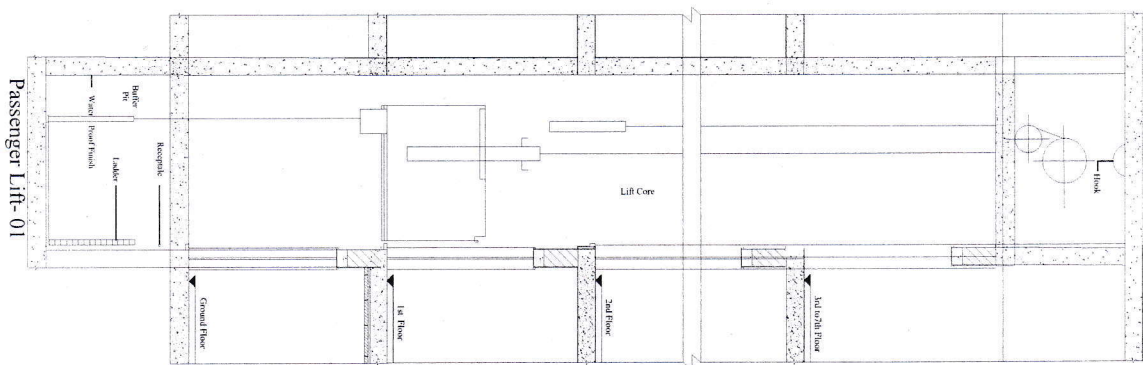
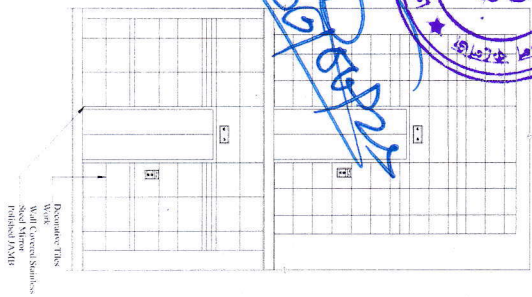
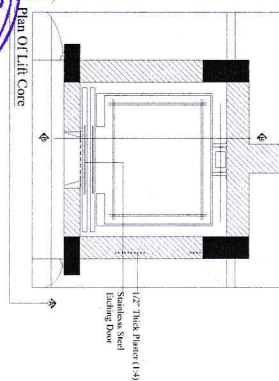
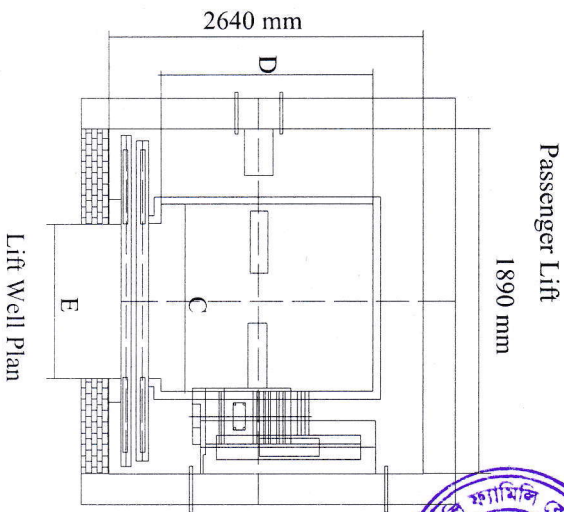
1. As per BNBC 2020 Required for 13 Persons Lift is (WxD)= 1900mmx2500mm
2. As per BNBC 2020 Required for 16 Persons Lift is (WxD)= 2100mmx2500mm



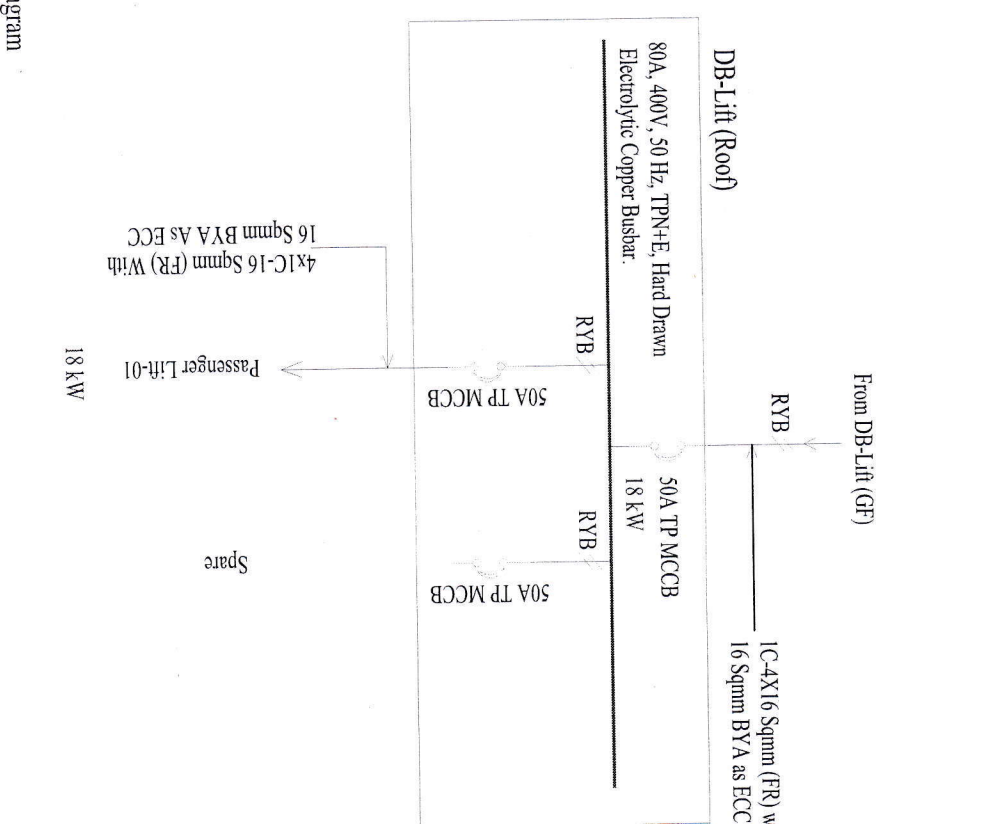
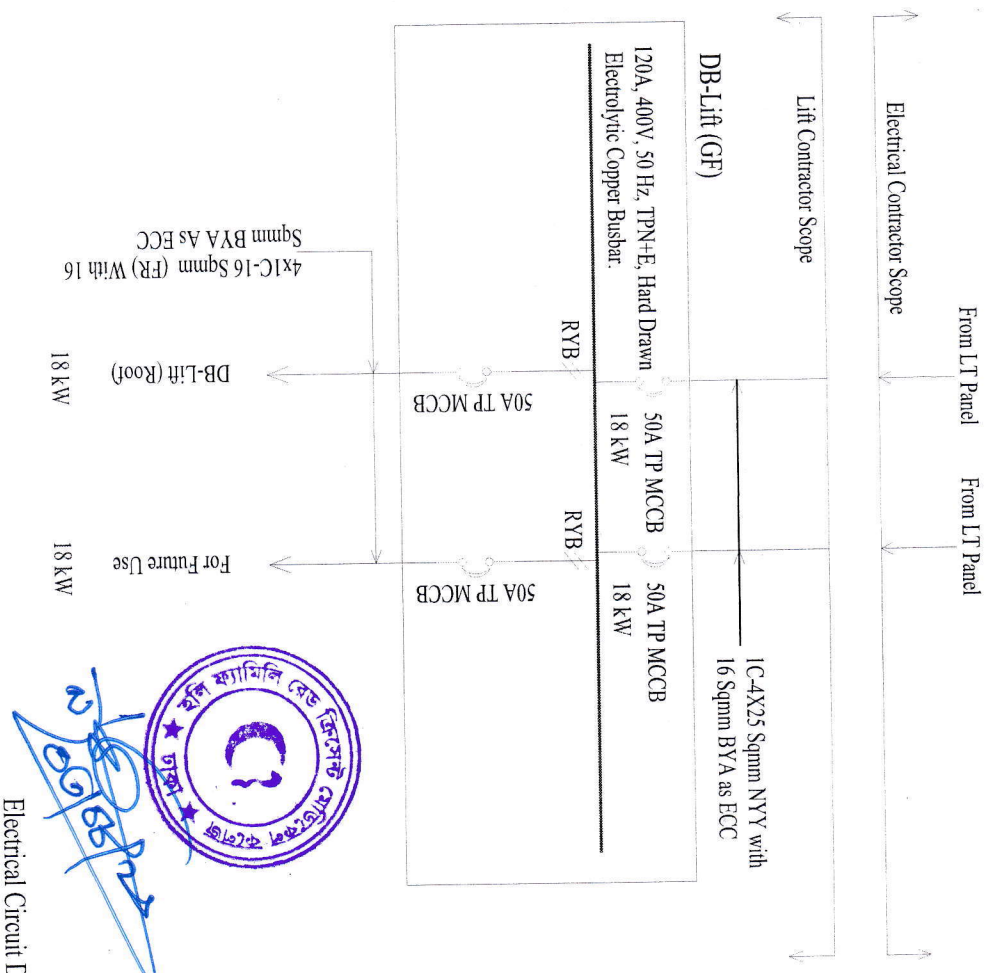
Split AC (Typical 2Nos.)
Cap.: 1.5 TR
1 Duty and 1 Standby

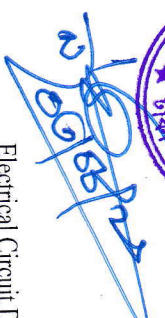


Lift Start/Stop

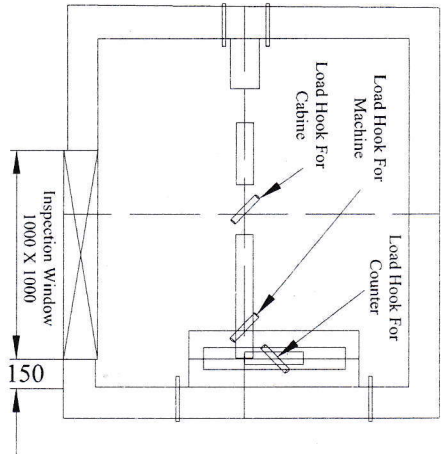


Elevator Schematic Diagram

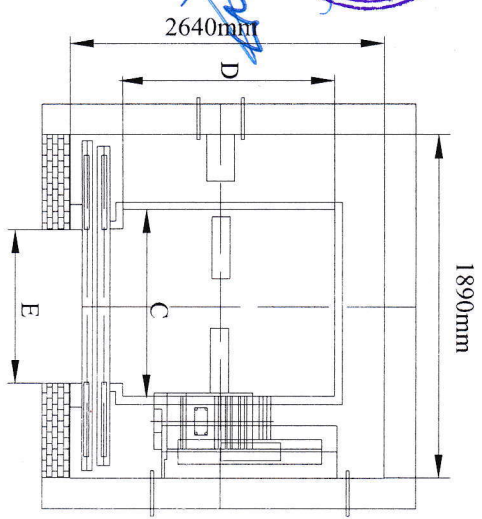




 Electrical Circuit Diagram

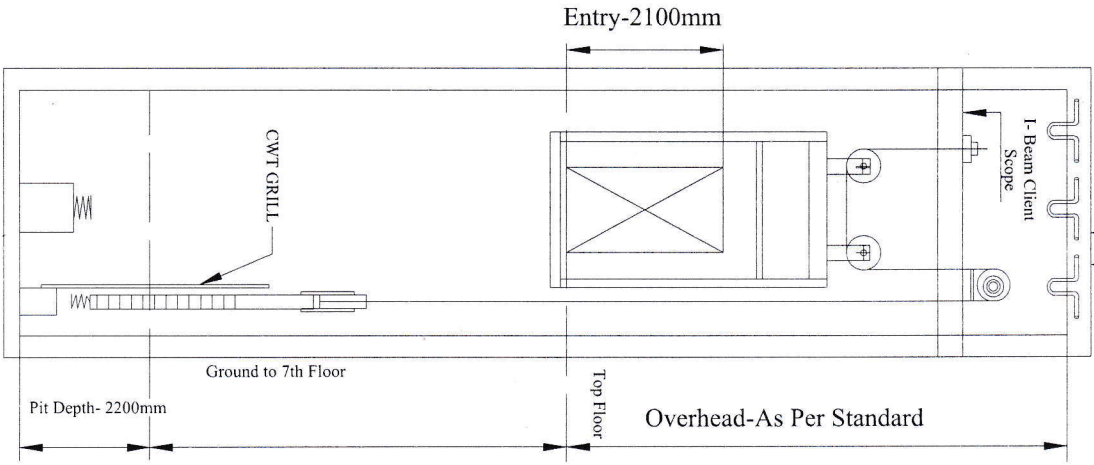
3 Nos- Load Hook (4 Ton Capacity) Client Scope
Refer Details Window At Terrace Level



Inspection Window at Terrace Level



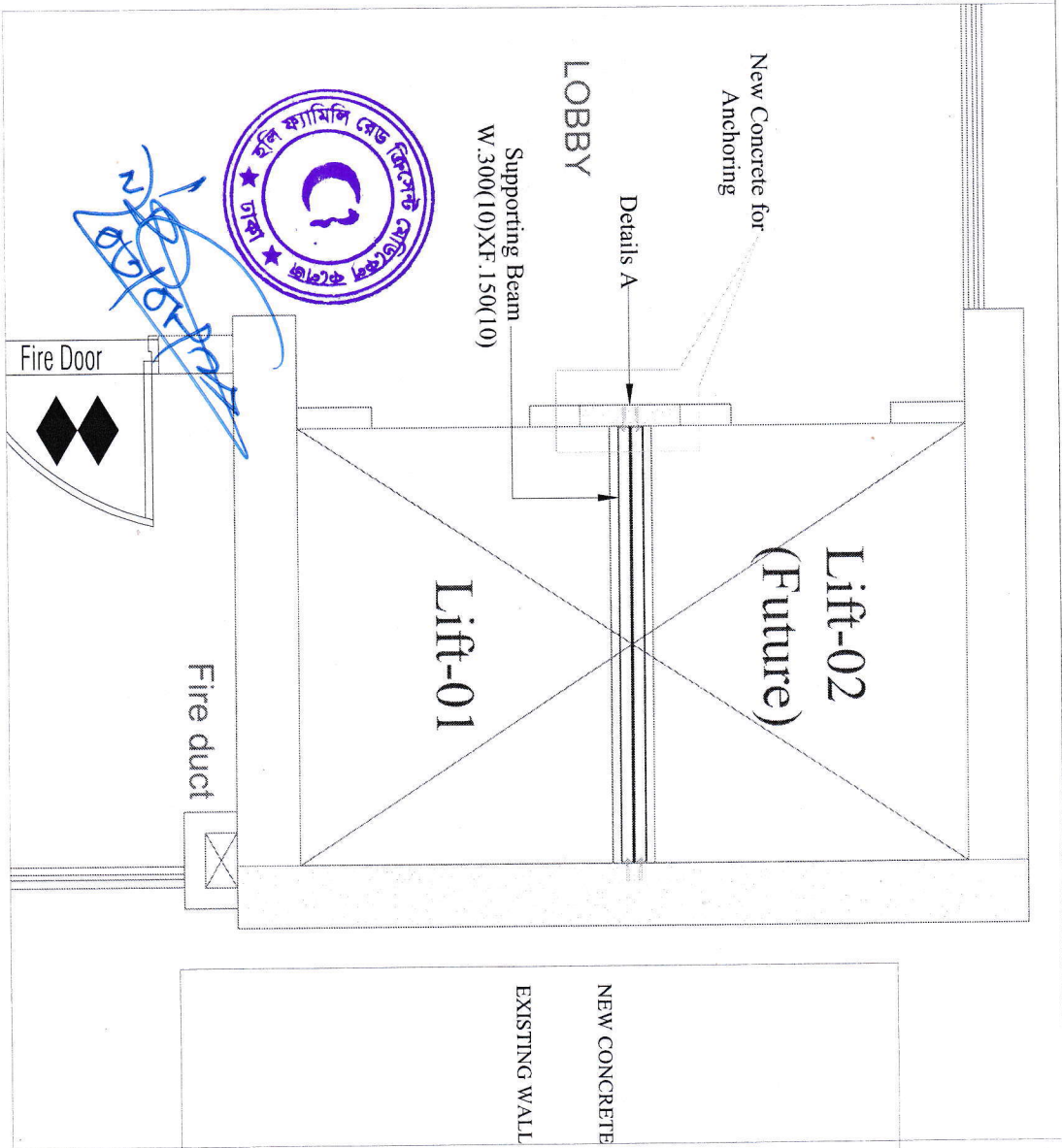
Lift Well Plan



Lift Well Section View



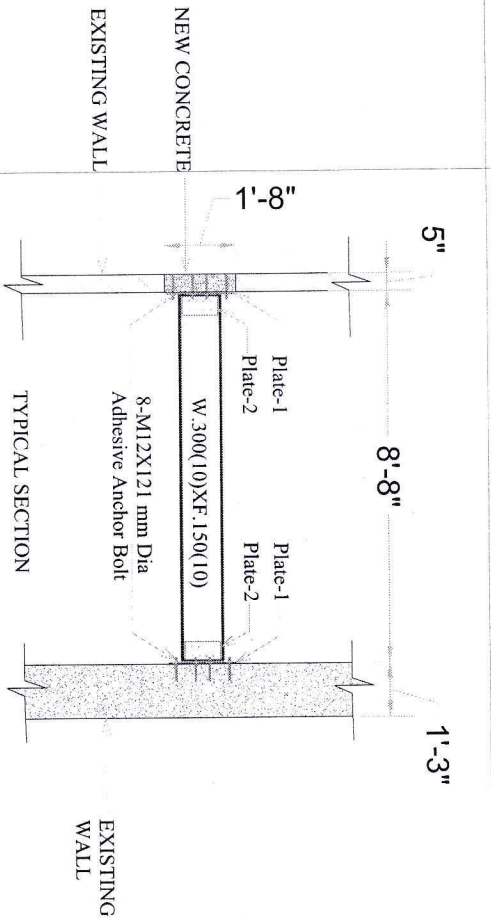
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Fire duct

Fire Door



Note for AB: Hilti HHS-N/RN (or Equivalent) internally threaded inserts with Hilti HIT-RE 500 V3 adhesive. 12mm dia 121mm depth (Tension Capacity 6 kip and shear capacity=13.3 kip) required concrete strength is 2500 psi. Ref: Hilti Anchor Fastening Technical Guide, Edition 19 (Table: 46)

SCHEDULE OF BEAM

NAME	W	TW	BF	TF
(mm)	(mm)	(mm)	(mm)	(mm)
	280	10	150	10

