গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
গৃহায়ন ও গণপূর্ত মন্ত্রণালয়
পরিকল্পনা ও উন্নয়ন শাখা-৩
www.mohpw.gov.bd

স্মারক নং-২৫.০০.০০০০.০৩১.১৪.০০৩.২০২২/১৯৪

তারিখ: ২৩ বৈশাখ ১৪৩৩ / ০৬ মে ২০২৬

বিষয়: গণপূর্ত অধিদপ্তরের SOR (E/M) ২০২৬ (Sub-Head: Lift & Escalator) দর পুনঃনির্ধারণ সংক্রান্ত।

সূত্র: অর্থ বিভাগ, অর্থ মন্ত্রণালয়, ব্যয় ব্যবস্থাপনা অনুবিভাগ, ব্যয় ব্যবস্থাপনা শাখা-৫ এর স্মারক নং-০৭.০০.০০০০.০০০.১৫৫.৯৯.০০০১.২৬-১৭৮, তারিখ: ০৬ মে, ২০২৬।

উপর্যুক্ত বিষয়ের পরিপ্রেক্ষিতে জানানো যাচ্ছে যে, গণপূর্ত অধিদপ্তরের SOR (E/M) ২০২৬ (Sub-Head: Lift & Escalator) দর আন্তঃমন্ত্রণালয় কারিগরি কমিটির সুপারিশ অনুসারে পুনঃনির্ধারণে নিম্নোক্ত শর্ত সাপেক্ষে অর্থ বিভাগের সম্মতি জ্ঞাপন করা হয়েছেঃ

(ক) পুনঃনির্ধারিত এ দর সব দপ্তরের দর তফশিলের ক্ষেত্রে প্রযোজ্য হবে এবং সব দপ্তরের ওয়েব সাইটে আপলোড করতে হবে;

(খ) ইতঃপূর্বে বিভিন্ন দপ্তরের জন্য অনুমোদিত দর তফশিলে উল্লিখিত সব শর্ত অপরিবর্তিত থাকবে;

(গ) এ পুনর্নিধারিত দরের ক্ষেত্রে সময়ে সময়ে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্ধারিত মূল্য সংযোজন কর (ভ্যাট), আয়কর, শুল্ক ও অন্যান্য ডিউটি প্রযোজ্য হবে;

(ঘ) এ দর তফসিল অনুযায়ী কাজ সম্পাদনের ক্ষেত্রে পাবলিক প্রকিউরমেন্ট আইন, ২০০৬ এবং পাবলিক প্রকিউরমেন্ট বিধিমালা, ২০২৫ সহ অন্যান্য আর্থিক বিধি-বিধান যথাযথভাবে পরিপালন করতে হবে; এবং

(ঙ) পরবর্তী নির্দেশ না দেয়া পর্যন্ত এ পুনর্নিধারিত দর কার্যকর থাকবে এবং তা অবিলম্বে কার্যকর হবে।

০২। এমতাবস্থায়, গণপূর্ত অধিদপ্তরের SOR (E/M) ২০২৬ (Sub-Head: Lift & Escalator) দর পুনঃনির্ধারণ সংক্রান্ত বিষয়ে পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য নির্দেশক্রমে অনুরোধ করা হলো।

সংযুক্তি: সূত্রোস্থ স্মারক।

(মোঃ নাজমুল আলম)
উপসচিব
ফোন: ০২-৫৫১০১৪৪১

প্রধান প্রকৌশলী
গণপূর্ত অধিদপ্তর
পূর্ত ভবন,সেগুনবাগিচা, ঢাকা।

সদয় অবগতির জন্য অনুলিপি (জ্যেষ্ঠতার ভিত্তিতে নহে):

০১. সচিব মহোদয়ের একান্ত সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
০২. অতিরিক্ত সচিব (পরিকল্পনা ও উন্নয়ন অনুবিভাগ) এর ব্যক্তিগত কর্মকর্তা, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
০৩. যুগ্মসচিব (পরিকল্পনা ও উন্নয়ন অধিশাখা-২) এর ব্যক্তিগত কর্মকর্তা, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
০৪. অফিস কপি/সংশ্লিষ্ট নথি।

PWD SCHEDULE OF RATES 2026

PART B: ELECTRO-MECHANICAL WORKS

SUBHEAD 8: LIFT & ESCALATOR

এর দর হালনাগাদকরণ

PWD SCHEDULE OF RATES 2026

SUBHEAD-8

LIFT & ESCALATOR

২৬.৫.২০২৬

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Subhead-8
Lift& Escalator

Item No.	Description of Items
8.1	Supply of following lift complete with car, BMS compatible control panel, traction machine(permanent magnet synchronous motor type), gearless, oil free, steel suspension ropes, safety devices, guide rails, push buttons, with other necessary accessories etc. complete including counter weight as required, suitable for installation & use in tropical country like Bangladesh (considering ambient temperature from 0^0C to 46^0C and relative humidity from 40% to 98%) & as per detailed specifications and standards as mentioned below herewith :

8.1.1 **Type A1 :**

The lift manufacturing company shall have multi-continental manufacturing plants and lift manufacturing capability for speed 10 m / sec (minimum), regular production with Regenerative drive technology. Besides, it shall have lift manufacturing experience for a period of not less than 30 years in it's particular manufacturing plant where proposed brand of lift will be manufactured .The proposed brand of lift shall be manufactured and tested in Finland, France , Germany ,Japan, Switzerland, UK, USA Countries, complying all other detailed specifications and standards stated in the item.

The proposed lift manufacturing company shall have it's own testing tower at factory premises and R&D(Research and development) wing/centre . In addition, it manufactures controller , inverter , motherboard & all PCBs (Printed Circuit Boards) in its own factory . The proposed lift manufacturing company shall have TUV/DNV certificate for its complete lift in which lift model should me mentioned and lift shall be comprised of all certified (by TUV/SUD/Liftinstituut/Intertek/UL/Eurocert S A /IMQ/ DEKRA/CSA group/Kayra Certification) major parts such as PMS type gearless Traction machine, Motor brake unit, Control Panel, Overspeed governor, Progressive Safety gear, Car and landing door, all door drive, ARD, hydraulic buffer Steel wire rope, Guide rails .

8.1.1.1 **Passenger Lift**

8.1.1.1 Passenger Lift				
Capacity (Kg) (Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.1.1.1	630 kg	1	1,01,68,081.00	3,87,013.00
8.1.1.1.2		1.5	1,07,01,472.00	4,05,616.00
8.1.1.1.3		2	1,14,66,716.00	4,29,408.00
8.1.1.1.4		2.5	1,16,69,915.00	4,43,346.00
8.1.1.1.5		3	1,18,31,250.00	4,55,758.00
8.1.1.1.6		3.5	1,19,38,808.00	4,59,901.00
8.1.1.1.7		4	1,20,46,366.00	4,64,044.00
8.1.1.1.8	800kg	1	1,21,18,180.00	3,93,609.00
8.1.1.1.9		1.5	1,27,34,961.00	4,14,325.00
8.1.1.1.10		2	1,36,44,693.00	4,43,328.00
8.1.1.1.11		2.5	1,39,60,042.00	4,49,543.00
8.1.1.1.12		3	1,42,79,593.00	4,55,758.00
8.1.1.1.13		3.5	1,44,97,681.00	4,59,901.00
8.1.1.1.14		4	1,46,28,292.00	4,64,044.00
8.1.1.1.15	1000kg	1	1,40,82,120.00	3,93,609.00
8.1.1.1.16		1.5	1,44,55,556.00	4,14,325.00
8.1.1.1.17		2	1,53,98,966.00	4,43,328.00
8.1.1.1.18		2.5	1,57,55,763.00	4,49,543.00
8.1.1.1.19		3	1,60,98,992.00	4,55,758.00
8.1.1.1.20		3.5	1,69,67,323.00	4,59,901.00
8.1.1.1.21		4	1,80,44,882.00	4,64,044.00

26/4/26 26/08/26

কাজী লুৎফুল হোসাইন
উপসচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

২৬.৪.২৬

মোহাম্মদ আজাদ ছাল্লাল

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.1.1 Passenger Lift				
Capacity (Kg) (Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.1.1.22	1250kg	1	1,60,78,238.00	4,02,020.00
8.1.1.1.23		1.5	1,64,80,401.00	4,23,179.00
8.1.1.1.24		2	1,75,87,409.00	4,52,182.00
8.1.1.1.25		2.5	1,79,86,768.00	4,58,397.00
8.1.1.1.26		3	1,83,81,921.00	4,64,611.00
8.1.1.1.27		3.5	1,93,37,779.00	4,68,755.00
8.1.1.1.28		4	2,03,39,876.00	4,72,898.00
8.1.1.1.29	1600kg	1	1,80,74,356.00	4,02,020.00
8.1.1.1.30		1.5	1,85,09,449.00	4,23,179.00
8.1.1.1.31		2	1,97,12,798.00	4,52,182.00
8.1.1.1.32		2.5	2,01,08,479.00	4,58,397.00
8.1.1.1.33		3	2,05,20,975.00	4,64,611.00
8.1.1.1.34		3.5	2,16,45,181.00	4,68,755.00
8.1.1.1.35		4	2,27,86,204.00	4,72,898.00
8.1.1.1.36	1800kg	1	1,90,68,211.00	4,02,020.00
8.1.1.1.37		1.5	1,95,17,668.00	4,23,179.00
8.1.1.1.38		2	2,07,71,287.00	4,52,182.00
8.1.1.1.39		2.5	2,12,40,796.00	4,58,397.00
8.1.1.1.40		3	2,16,72,471.00	4,64,611.00
8.1.1.1.41		3.5	2,28,15,696.00	4,68,755.00
8.1.1.1.42		4	2,38,87,462.00	4,72,898.00
8.1.1.1.43	2000kg	1	2,00,28,437.00	4,02,020.00
8.1.1.1.44		1.5	2,04,92,257.00	4,23,179.00
8.1.1.1.45		2	2,17,91,945.00	4,52,182.00
8.1.1.1.46		2.5	2,22,89,039.00	4,58,397.00
8.1.1.1.47		3	2,27,48,301.00	4,64,611.00
8.1.1.1.48		3.5	2,39,65,193.00	4,68,755.00
8.1.1.1.49		4	2,51,94,697.00	4,72,898.00
8.1.1.1.50	2500kg	1	2,26,86,320.00	4,62,323.00
8.1.1.1.51		1.5	2,31,89,027.00	4,86,656.00
8.1.1.1.52		2	2,46,68,955.00	5,20,009.00
8.1.1.1.53		2.5	2,52,69,831.00	5,27,156.00
8.1.1.1.54		3	2,58,03,445.00	5,34,303.00
8.1.1.1.55		3.5	2,73,29,612.00	5,39,068.00
8.1.1.1.56		4	2,89,56,666.00	5,43,833.00

8.1.1.2 Bed / Stretcher Lift

8.1.1.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3-stop Price	Next per stop
8.1.1.2.1	1000kg	1	1,41,24,157.00	3,93,609.00
8.1.1.2.2		1.5	1,44,97,593.00	4,14,325.00
8.1.1.2.3		2	1,54,66,225.00	4,43,328.00
8.1.1.2.4		2.5	1,58,23,021.00	4,55,758.00
8.1.1.2.5		3	1,60,98,992.00	4,57,829.00
8.1.1.2.6		3.5	1,70,47,192.00	4,59,901.00
8.1.1.2.7		4	1,80,73,453.00	4,64,044.00
8.1.1.2.8	1250kg	1	1,61,20,274.00	4,02,020.00
8.1.1.2.9		1.5	1,65,30,845.00	4,23,179.00
8.1.1.2.10		2	1,76,42,057.00	4,52,182.00
8.1.1.2.11		2.5	1,80,49,823.00	4,58,397.00
8.1.1.2.12		3	1,83,98,847.00	4,64,611.00
8.1.1.2.13		3.5	1,94,00,834.00	4,68,755.00
8.1.1.2.14		4	2,04,23,950.00	4,72,898.00
8.1.1.2.15	1600kg	1	1,81,24,800.00	4,02,020.00
8.1.1.2.16		1.5	1,85,59,893.00	4,23,179.00
8.1.1.2.17		2	1,97,75,853.00	4,52,182.00
8.1.1.2.18		2.5	2,01,79,941.00	4,58,397.00
8.1.1.2.19		3	2,05,92,437.00	4,64,611.00
8.1.1.2.20		3.5	2,17,20,847.00	4,68,755.00
8.1.1.2.21		4	2,28,78,685.00	4,72,898.00
8.1.1.2.22	1800kg	1	1,91,22,859.00	4,02,020.00
8.1.1.2.23		1.5	1,95,30,279.00	4,23,179.00
8.1.1.2.24		2	2,08,30,139.00	4,52,182.00
8.1.1.2.25		2.5	2,13,08,054.00	4,58,397.00
8.1.1.2.26		3	2,17,43,933.00	4,64,611.00
8.1.1.2.27		3.5	2,29,03,973.00	4,68,755.00
8.1.1.2.28		4	2,39,84,146.00	4,72,898.00
8.1.1.2.29	2000kg	1	2,00,78,881.00	4,02,020.00
8.1.1.2.30		1.5	2,05,42,701.00	4,23,179.00
8.1.1.2.31		2	2,18,59,203.00	4,52,182.00
8.1.1.2.32		2.5	2,23,60,501.00	4,58,397.00
8.1.1.2.33		3	2,28,28,170.00	4,64,611.00
8.1.1.2.34		3.5	2,40,57,674.00	4,68,755.00
8.1.1.2.35		4	2,52,91,381.00	4,72,898.00
8.1.1.2.36	2500kg	1	2,27,36,764.00	4,62,323.00
8.1.1.2.37		1.5	2,32,43,675.00	4,86,656.00
8.1.1.2.38		2	2,47,65,640.00	5,20,009.00
8.1.1.2.39		2.5	2,53,70,717.00	5,27,156.00
8.1.1.2.40		3	2,59,04,333.00	5,34,303.00
8.1.1.2.41		3.5	2,74,34,704.00	5,39,068.00
8.1.1.2.42		4	2,90,36,535.00	5,43,833.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.1.3 **Panorama / Capsule Lift**

The panorama/capsule lift shall have the following features -

(i)Lift car shall have tempered and fire proof glass in three sides (including cabin & landing door).

(ii)The car shape may be customized as per direction of the Engineer.

8.1.1.3 Panorama/Capsule Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Panoroma/Capsule Lift	
			Upto 3-stop Price	Next per stop
8.1.1.3.1	630 kg	1	1,07,28,794.00	4,06,280.00
8.1.1.3.2		1.5	1,12,93,467.00	4,27,663.00
8.1.1.3.3		2	1,20,84,009.00	4,58,115.00
8.1.1.3.4	800kg	1	1,30,28,320.00	4,06,280.00
8.1.1.3.5		1.5	1,37,04,850.00	4,27,663.00
8.1.1.3.6		2	1,46,54,393.00	4,58,115.00
8.1.1.3.7	1000kg	1	1,49,88,161.00	4,30,018.00
8.1.1.3.8		1.5	1,52,94,040.00	4,52,650.00
8.1.1.3.9		2	1,63,64,625.00	4,84,336.00
8.1.1.3.10	1250kg	1	1,71,06,230.00	4,39,207.00
8.1.1.3.11		1.5	1,74,78,905.00	4,62,323.00
8.1.1.3.12		2	1,86,70,347.00	4,94,009.00
8.1.1.3.13	1600kg	1	1,91,74,097.00	4,39,207.00
8.1.1.3.14		1.5-	1,95,36,751.00	4,62,323.00
8.1.1.3.15		2	2,08,64,896.00	4,94,009.00
8.1.1.3.16	1800kg	1	2,01,82,808.00	4,39,207.00
8.1.1.3.17		1.5	2,06,57,156.00	4,62,323.00
8.1.1.3.18		2	2,19,70,575.00	4,94,009.00
8.1.1.3.19	2000kg	1	2,07,54,338.00	4,39,207.00
8.1.1.3.20		1.5	2,12,39,558.00	4,62,323.00
8.1.1.3.21		2	2,25,92,833.00	4,94,009.00
8.1.1.3.22	2500kg	1	2,39,52,823.00	5,05,088.00
8.1.1.3.23		1.5	2,45,04,023.00	5,31,671.00
8.1.1.3.24		2	2,60,44,393.00	5,68,110.00

8.1.1.4 **Fire Fighters Lift**

The Firefighters Lift shall be designed in conformity with EN 81-20 and EN 81-72:2015 and provided with additional protection, controls and signals.

Basic requirement must be considered:

The lift shall be designed to operate correctly during firefighting operations for a period equal to that required for the structure, e.g. 2 hours according to the following conditions:

i) Electrical/electronic devices on landings, other than at the fire service access level, shall be designed to function correctly in an ambient temperature range of 0 °C to 65 °C or be made non-operational. A malfunction of devices (landing indicators and push buttons) shall not prevent operation of the lift under fire fighting conditions;

ii)The car roof shall be designed to prevent accumulating water and facilitate controlled draining from the roof. Electrical equipment within the car roof and outer walls shall be classified to at least IPX3 according to EN 60529.

iii) An emergency trap door shall be fitted to the car roof with minimum clear opening dimensions of 0,5 m x 0,7 m. Clear opening dimensions shall be measured with the ladder in the rescue position.

iv) The emergency trap door shall conform to EN 81-20:2014

v) A firefighter lift switch shall be located in the safe area intended to be used at the fire service access level. The switch shall be located within 2 m horizontally from the firefighters' lift, at a height between 1.4 m and 2.0 m above floor level. The switch shall be marked with a firefighters' lift pictogram and it shall be clearly indicated to which lift it is associated.

vi) Operation of the firefighters lift switch shall be by means of the unlocking key, which fits the unlocking triangle as defined in EN 81-20:2014,

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Lift Operation procedure :

i) A lift parked at a landing, shall close the doors and travel nonstop to the fire service access level. An audible signal shall sound in the car until the doors are closed. At the latest when the actual door dwell time exceeds 15 s, all heat and smoke sensitive door protection devices shall be made inactive and the doors shall attempt to close under reduced power;

ii)A lift travelling away from the fire service access level shall make a normal stop and reverse its direction at the nearest possible landing without opening the doors and return to the fire service access level;

iii) A lift travelling towards the fire service access level shall continue its travel non-stop to the fire service access level. If the lift has already started stopping at a level, it is acceptable to make a normal stop and without opening doors to continue to fire service access level;

iv) On arriving at the fire service access level, the firefighters lift shall be retained there with the car and landing doors kept in the open position.

Car and landing controls

i) The car and landing controls and associated control system shall not register false signals from the effects of heat, smoke, water or moisture. The fire service access level shall have a car position indicator.

ii) The car controls, position indicator inside the car, position indicator at the fire service access level and the firefighters lift switch shall be protected to at least IPX3 according to EN 60529.

iii) The landing control panels and landing indicators on other levels than fire service access level shall be protected to at least IPX3 according to EN 60529 unless they are electrically disconnected on initiation of the firefighters lift switch.

iv) In case of fire hazard , the control panel shal have the capability to receive signal from fire alam control panel (FACP)/ detectors and accordingly, the car shall not stop at the particular floor wherefire incident occurred.

8.1.1.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.1.4.1	1000kg	1	1,57,77,012.00	4,52,650.00
8.1.1.4.2		1.5	1,60,98,992.00	4,76,474.00
8.1.1.4.3		2	1,72,25,924.00	5,09,827.00
8.1.1.4.4		2.5	1,74,67,408.00	5,16,974.00
8.1.1.4.5		3	1,77,08,893.00	5,24,121.00
8.1.1.4.6		3.5	1,87,94,845.00	5,28,886.00
8.1.1.4.7		4	1,98,80,800.00	5,33,651.00
8.1.1.4.8	1250kg	1	1,80,30,870.00	4,62,323.00
8.1.1.4.9		1.5	1,83,98,847.00	4,86,656.00
8.1.1.4.10		2	1,96,86,767.00	5,20,009.00
8.1.1.4.11		2.5	1,99,62,751.00	5,27,156.00
8.1.1.4.12		3	2,02,38,732.00	5,34,303.00
8.1.1.4.13		3.5	2,14,79,822.00	5,39,068.00
8.1.1.4.14		4	2,27,20,915.00	5,43,833.00
8.1.1.4.15	1600kg	1	2,02,84,729.00	4,62,323.00
8.1.1.4.16		1.5	2,06,98,704.00	4,86,656.00
8.1.1.4.17		2	2,21,47,613.00	5,20,009.00
8.1.1.4.18		2.5	2,24,58,094.00	5,27,156.00
8.1.1.4.19		3	2,27,68,577.00	5,34,303.00
8.1.1.4.20		3.5	2,41,64,802.00	5,39,068.00
8.1.1.4.21		4	2,55,61,029.00	5,43,833.00
8.1.1.4.22	1800kg	1	2,14,11,658.00	4,62,323.00
8.1.1.4.23		1.5	2,18,48,630.00	4,86,656.00
8.1.1.4.24		2	2,33,78,035.00	5,20,009.00
8.1.1.4.25		2.5	2,37,05,764.00	5,27,156.00
8.1.1.4.26		3	2,40,33,495.00	5,34,303.00
8.1.1.4.27		3.5	2,55,07,290.00	5,39,068.00
8.1.1.4.28		4	2,69,81,086.00	5,43,833.00

8.1.1.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.1.4.29	2000kg	1	2,25,38,584.00	4,62,323.00
8.1.1.4.30		1.5	2,29,98,554.00	4,86,656.00
8.1.1.4.31		2	2,21,55,997.00	5,20,009.00
8.1.1.4.32		2.5	2,27,12,471.00	5,27,156.00
8.1.1.4.33		3	2,32,01,689.00	5,34,303.00
8.1.1.4.34		3.5	2,47,17,240.00	5,39,068.00
8.1.1.4.35		4	2,62,24,386.00	5,43,833.00
8.1.1.4.36	2500kg	1	2,29,97,725.00	5,31,671.00
8.1.1.4.37		1.5	2,35,88,114.00	5,59,654.00
8.1.1.4.38		2	2,53,05,574.00	5,98,010.00
8.1.1.4.39		2.5	2,60,11,098.00	6,06,229.00
8.1.1.4.40		3	2,66,95,600.00	6,14,448.00
8.1.1.4.41		3.5	2,82,49,112.00	6,19,928.00
8.1.1.4.42		4	3,26,61,310.00	6,25,407.00

8.1.1.5 **Cargo/Goods/Service Lift:**

The Cargo/Goods/Service Lift shall have the following features -

i)Designed and manufactured in accordance with requirements of Lifts Directive 95/16/CE, throughout the accomplishment of Harmonized Norm EN 81-2 and the Directive of Electromagnetic Compatibility 89/336/CEE.

ii) Test Certificate CE Type ATI/LD-VB/M012/99 (institution registered 0053), as MODEL LIFT

8.1.1.5 Cargo Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Cargo Lift	
			Upto 3-stop Price	Next per stop
8.1.1.5.1	1600 kg	1.0	2,08,59,343.00	5,75,414.00
8.1.1.5.2	2000 kg	1.0	2,34,46,549.00	5,75,414.00
8.1.1.5.3	2500 kg	1.0	2,70,40,166.00	5,75,414.00
8.1.1.5.4	3000 kg	1.0	3,17,39,819.00	5,75,414.00
8.1.1.5.5	3500 kg	1.0	3,67,47,505.00	5,75,414.00
8.1.1.5.6	4000 kg	1.0	4,29,65,303.00	5,75,414.00
8.1.1.5.7	5000 kg	1.0	4,98,87,194.00	5,75,414.00

8.1.1.6 **Car Lift**

The Car Lift lift shall have the following features -

i)Designed and manufactured in accordance with requirements of Lifts Directive 95/16/CE, throughout the accomplishment of Harmonized Norm EN 81-2 and the Directive of Electromagnetic Compatibility 89/336/CEE.

ii) Test Certificate CE Type ATI/LD-VB/M012/99 (institution registered 0053), as MODEL LIFT

8.1.1.6 Car Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Car Lift	
			Upto 3-stop Price	Next per stop
8.1.1.6.1	3500 kg	0.5	3,87,86,704.00	8,98,217.00
8.1.1.6.2	5000 kg	0.5	4,41,97,513.00	8,98,217.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.2 **Type A2:**

The proposed brand must have been in active, continuous lift/elevator production with the same brand name for a minimum of 30 years at its primary mother manufacturing plant located in the USA, UK, JAPAN, or EU countries.

The manufacturing company shall have manufacturing plants in multicontinental countries. Any such "sister concern" or subsidiary plant producing the proposed brand must have a minimum of 20 years of independent manufacturing experience, R&D Infrastructure: The manufacturer must maintain its own testing tower and a dedicated Research and Development (R&D) center at the factory premises

It shall have lift manufacturing capability for speed 4 m /sec (minimum) of regular production with Regenerative drive technology including energy class A certification.

The proposed lift manufacturing company shall have TUV/DNV certificate for its complete lift of proposed lift model and lift shall be comprised of all certified (by TUV/SUD/Liftinstituut/Intertek/UL/Eurocert S A /IMQ/ DEKRA/CSA group/Kayra Certification) major parts such as PMS type gearless Traction machine, Motor brake unit, Control Panel, Overspeed governor, Progressive Safety gear, Regenerative drive, Car and landing door, all door drive, ARD, hydraulic buffer Steel wire rope, Guide rails, and complying all other terms and conditions as per detailed technical specification .

8.1.2.1 **Passenger Lift**

8.1.2.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.2.1.1	630 kg	1	49,12,122.00	1,73,354.00
8.1.2.1.2		1.5	51,70,657.00	1,82,478.00
8.1.2.1.3		2	55,32,601.00	1,95,254.00
8.1.2.1.4		2.5	56,10,160.00	1,97,990.00
8.1.2.1.5		3	56,87,720.00	2,00,729.00
8.1.2.1.6		3.5	57,39,425.00	2,02,551.00
8.1.2.1.7		4	57,91,132.00	2,04,376.00
8.1.2.1.8	800kg	1	59,64,723.00	1,73,354.00
8.1.2.1.9		1.5	62,78,655.00	1,82,478.00
8.1.2.1.10		2	67,18,162.00	1,95,254.00
8.1.2.1.11		2.5	68,12,341.00	1,97,990.00
8.1.2.1.12		3	69,06,523.00	2,00,729.00
8.1.2.1.13		3.5	69,69,307.00	2,02,551.00
8.1.2.1.14		4	70,32,094.00	2,04,376.00
8.1.2.1.15	1000kg	1	66,84,488.00	1,73,354.00
8.1.2.1.16		1.5	70,36,305.00	1,82,478.00
8.1.2.1.17		2	75,28,845.00	1,95,254.00
8.1.2.1.18		2.5	76,34,392.00	1,97,990.00
8.1.2.1.19		3	77,39,936.00	2,00,729.00
8.1.2.1.20		3.5	78,10,298.00	2,02,551.00
8.1.2.1.21		4	78,80,662.00	2,04,376.00
8.1.2.1.22	1250kg	1	73,79,082.00	1,83,551.00
8.1.2.1.23		1.5	77,67,454.00	1,93,212.00
8.1.2.1.24		2	83,11,175.00	2,06,738.00
8.1.2.1.25		2.5	84,27,687.00	2,09,633.00
8.1.2.1.26		3	85,44,200.00	2,12,531.00
8.1.2.1.27		3.5	86,21,873.00	2,14,465.00
8.1.2.1.28		4	86,99,546.00	2,16,396.00
8.1.2.1.29	1600kg	1	83,01,415.00	1,83,551.00
8.1.2.1.30		1.5	87,38,330.00	1,93,212.00
8.1.2.1.31		2	93,50,013.00	2,06,738.00
8.1.2.1.32		2.5	94,81,088.00	2,09,633.00
8.1.2.1.33		3	96,12,163.00	2,12,531.00
8.1.2.1.34		3.5	96,99,545.00	2,14,465.00
8.1.2.1.35		4	97,86,928.00	2,16,396.00

মোহাম্মদ আজিজুল হাকিম
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.2.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.2.1.36	1800kg	1	87,62,602.00	1,83,551.00
8.1.2.1.37		1.5	92,23,791.00	1,93,212.00
8.1.2.1.38		2	98,69,457.00	2,06,738.00
8.1.2.1.39		2.5	1,00,07,812.00	2,09,633.00
8.1.2.1.40		3	1,01,46,170.00	2,12,531.00
8.1.2.1.41		3.5	1,02,38,408.00	2,14,465.00
8.1.2.1.42		4	1,03,30,647.00	2,16,396.00
8.1.2.1.43	2000kg	1	92,23,791.00	1,83,551.00
8.1.2.1.44		1.5	97,09,252.00	1,93,212.00
8.1.2.1.45		2	1,03,88,899.00	2,06,738.00
8.1.2.1.46		2.5	1,05,34,539.00	2,09,633.00
8.1.2.1.47		3	1,06,80,179.00	2,12,531.00
8.1.2.1.48		3.5	1,07,77,271.00	2,14,465.00
8.1.2.1.49		4	1,08,74,363.00	2,16,396.00
8.1.2.1.50	2500kg	1	1,06,07,359.00	2,11,083.00
8.1.2.1.51		1.5	1,11,65,641.00	2,22,194.00
8.1.2.1.52		2	1,19,47,235.00	2,37,748.00
8.1.2.1.53		2.5	1,21,14,720.00	2,41,079.00
8.1.2.1.54		3	1,22,82,205.00	2,44,412.00
8.1.2.1.55		3.5	1,23,93,862.00	2,46,633.00
8.1.2.1.56		4	1,25,05,516.00	2,48,857.00

8.1.2.2 Bed / Stretcher Lift

8.1.2.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3stop Price	Next per stop
8.1.2.2.1	1000kg	1	66,84,488.00	1,73,354.00
8.1.2.2.2		1.5	70,36,305.00	1,82,478.00
8.1.2.2.3		2	75,28,845.00	1,95,254.00
8.1.2.2.4		2.5	76,34,392.00	1,97,990.00
8.1.2.2.5		3	77,39,936.00	2,00,729.00
8.1.2.2.6		3.5	78,10,298.00	2,02,551.00
8.1.2.2.7		4	78,80,662.00	2,04,376.00
8.1.2.2.8	1250kg	1	73,79,082.00	1,83,551.00
8.1.2.2.9		1.5	77,67,454.00	1,93,212.00
8.1.2.2.10		2	83,11,175.00	2,06,738.00
8.1.2.2.11		2.5	84,27,687.00	2,09,633.00
8.1.2.2.12		3	85,44,200.00	2,12,531.00
8.1.2.2.13		3.5	86,21,873.00	2,14,465.00
8.1.2.2.14		4	86,99,546.00	2,16,396.00
8.1.2.2.15	1600kg	1	83,01,415.00	1,83,551.00
8.1.2.2.16		1.5	87,38,330.00	1,93,212.00
8.1.2.2.17		2	93,50,013.00	2,06,738.00
8.1.2.2.18		2.5	94,81,088.00	2,09,633.00
8.1.2.2.19		3	96,12,163.00	2,12,531.00
8.1.2.2.20		3.5	96,99,545.00	2,14,465.00
8.1.2.2.21		4	97,86,928.00	2,16,396.00
8.1.2.2.22	1800kg	1	87,62,602.00	1,83,551.00
8.1.2.2.23		1.5	92,23,791.00	1,93,212.00
8.1.2.2.24		2	98,69,457.00	2,06,738.00
8.1.2.2.25		2.5	1,00,07,812.00	2,09,633.00
8.1.2.2.26		3	1,01,46,170.00	2,12,531.00
8.1.2.2.27		3.5	1,02,38,408.00	2,14,465.00
8.1.2.2.28		4	1,03,30,647.00	2,16,396.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.2.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3stop Price	Next per stop
8.1.2.2.29	2000kg	1	92,23,791.00	1,83,551.00
8.1.2.2.30		1.5	97,09,252.00	1,93,212.00
8.1.2.2.31		2	1,03,88,899.00	2,06,738.00
8.1.2.2.32		2.5	1,05,34,539.00	2,09,633.00
8.1.2.2.33		3	1,06,80,179.00	2,12,531.00
8.1.2.2.34		3.5	1,07,77,271.00	2,14,465.00
8.1.2.2.35		4	1,08,74,363.00	2,16,396.00
8.1.2.2.36	2500kg	1	1,06,07,359.00	2,11,083.00
8.1.2.2.37		1.5	1,11,65,641.00	2,22,194.00
8.1.2.2.38		2	1,19,47,235.00	2,37,748.00
8.1.2.2.39		2.5	1,21,14,720.00	2,41,079.00
8.1.2.2.40		3	1,22,82,205.00	2,44,412.00
8.1.2.2.41		3.5	1,23,93,862.00	2,46,633.00
8.1.2.2.42		4	1,25,05,516.00	2,48,857.00

8.1.2.3 **Panorama / Capsule Lift**

The panorama/capsule lift shall have the following features -

(i)Lift car shall have tempered and fire proof glass in three sides (including cabin & landing door).

(ii)The car shape may be customized as per direction of the Engineer.

8.1.2.3 Panorama/Capsule Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger/Capsule Lift	
			Upto 3-stop Price	Next per stop
8.1.2.3.1	630 kg	1	51,57,728.00	1,82,023.00
8.1.2.3.2		1.5	54,29,188.00	1,91,605.00
8.1.2.3.3		2	58,09,229.00	2,05,017.00
8.1.2.3.4	800kg	1	62,62,959.00	1,82,023.00
8.1.2.3.5		1.5	65,92,588.00	1,91,605.00
8.1.2.3.6		2	70,54,070.00	2,05,017.00
8.1.2.3.7	1000kg	1	70,18,713.00	1,82,023.00
8.1.2.3.8		1.5	73,88,119.00	1,91,605.00
8.1.2.3.9		2	79,05,287.00	2,05,017.00
8.1.2.3.10	1250kg	1	77,48,035.00	1,92,728.00
8.1.2.3.11		1.5	81,55,825.00	2,02,873.00
8.1.2.3.12		2	87,26,733.00	2,17,075.00
8.1.2.3.13	1600kg	1	93,26,638.00	1,92,728.00
8.1.2.3.14		1.5	98,17,515.00	2,02,873.00
8.1.2.3.15		2	98,54,216.00	2,17,075.00
8.1.2.3.16	1800kg	1	95,05,809.00	1,92,728.00
8.1.2.3.17		1.5	1,00,06,116.00	2,02,873.00
8.1.2.3.18		2	1,05,00,554.00	2,17,075.00
8.1.2.3.19	2000kg	1	96,84,981.00	1,92,728.00
8.1.2.3.20		1.5	1,01,94,716.00	2,02,873.00
8.1.2.3.21		2	1,09,08,346.00	2,17,075.00
8.1.2.3.22	2500kg	1	1,11,37,726.00	2,21,638.00
8.1.2.3.23		1.5	1,17,23,924.00	2,33,303.00
8.1.2.3.24		2	1,25,44,600.00	2,49,637.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.2.4 **Fire Fighters Lift**

The Firefighters Lift shall be designed in conformity with EN 81-20 and EN 81-72:2015 and provided with additional protection, controls and signals.

Basic requirement must be considered:

The lift shall be designed to operate correctly during firefighting operations for a period equal to that required for the structure, e.g. 2 hours according to the following conditions:

i) Electrical/electronic devices on landings, other than at the fire service access level, shall be designed to function correctly in an ambient temperature range of 0 °C to 65 °C or be made non-operational. A malfunction of devices (landing indicators and push buttons) shall not prevent operation of the lift under fire fighting conditions;

ii)The car roof shall be designed to prevent accumulating water and facilitate controlled draining from the roof. Electrical equipment within the car roof and outer walls shall be classified to at least IPX3 according to EN 60529.

iii) An emergency trap door shall be fitted to the car roof with minimum clear opening dimensions of 0,5 m x 0,7 m. Clear opening dimensions shall be measured with the ladder in the rescue position.

iv) The emergency trap door shall conform to EN 81-20:2014.

v) A firefighter lift switch shall be located in the safe area intended to be used at the fire service access level. The switch shall be located within 2 m horizontally from the firefighters' lift, at a height between 1.4 m and 2.0 m above floor level. The switch shall be marked with a firefighters' lift pictogram and it shall be clearly indicated to which lift it is associated.

vi) Operation of the firefighters lift switch shall be by means of the unlocking key, which fits the unlocking triangle as defined in EN 81-20:2014,

Lift Operation procedure :

i) A lift parked at a landing, shall close the doors and travel nonstop to the fire service access level. An audible signal shall sound in the car until the doors are closed. At the latest when the actual door dwell time exceeds 15 s, all heat and smoke sensitive door protection devices shall be made inactive and the doors shall attempt to close under reduced power;

ii)A lift travelling away from the fire service access level shall make a normal stop and reverse its direction at the nearest possible landing without opening the doors and return to the fire service access level;

iii) A lift travelling towards the fire service access level shall continue its travel non-stop to the fire service access level. If the lift has already started stopping at a level, it is acceptable to make a normal stop and without opening doors to continue to fire service access level;

iv) On arriving at the fire service access level, the firefighters lift shall be retained there with the car and landing doors kept in the open position.

Car and landing controls

i)The car and landing controls and associated control system shall not register false signals from the effects of heat, smoke, water or moisture. The fire service access level shall have a car position indicator.

ii)The car controls, position indicator inside the car, position indicator at the fire service access level and the firefighters lift switch shall be protected to at least IPX3 according to EN 60529.

iii)The landing control panels and landing indicators on other levels than fire service access level shall be protected to at least IPX3 according to EN 60529 unless they are electrically disconnected on initiation of the firefighters lift switch.

iv) In case of fire hazard , the control panel shal have the capability to receive signal from fire alam control panel (FACP)/ detectors and accordingly, the car shall not stop at the particular floor where fire incident occurred.

মোহাম্মদ আজাদ হাবিব
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.2.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.2.4 .1	1000kg	1	73,52,939.00	1,90,691.00
8.1.2.4 .2		1.5	77,39,936.00	2,00,729.00
8.1.2.4 .3		2	82,81,728.00	2,14,779.00
8.1.2.4 .4		2.5	83,97,830.00	2,17,788.00
8.1.2.4 .5		3	85,13,929.00	2,20,800.00
8.1.2.4 .6		3.5	85,91,327.00	2,22,808.00
8.1.2.4 .7		4	86,68,725.00	2,24,817.00
8.1.2.4 .8	1250kg	1	81,16,991.00	2,01,906.00
8.1.2.4 .9		1.5	85,44,200.00	2,12,531.00
8.1.2.4 .10		2	91,42,292.00	2,27,408.00
8.1.2.4 .11		2.5	92,70,454.00	2,30,596.00
8.1.2.4 .12		3	93,98,617.00	2,33,784.00
8.1.2.4 .13		3.5	94,84,061.00	2,35,911.00
8.1.2.4 .14		4	95,69,502.00	2,38,036.00
8.1.2.4 .15	1600kg	1	91,31,555.00	2,01,906.00
8.1.2.4 .16		1.5	96,12,163.00	2,12,531.00
8.1.2.4 .17		2	1,02,85,016.00	2,27,408.00
8.1.2.4 .18		2.5	1,04,29,198.00	2,30,596.00
8.1.2.4 .19		3	1,05,73,378.00	2,33,784.00
8.1.2.4 .20		3.5	1,06,69,501.00	2,35,911.00
8.1.2.4 .21		4	1,07,65,624.00	2,38,036.00
8.1.2.4 .22	1800kg	1	96,39,270.00	2,01,906.00
8.1.2.4 .23		1.5	1,01,46,600.00	2,12,531.00
8.1.2.4 .24		2	1,08,56,864.00	2,27,408.00
8.1.2.4 .25		2.5	1,10,09,061.00	2,30,596.00
8.1.2.4 .26		3	1,11,61,259.00	2,33,784.00
8.1.2.4 .27		3.5	1,12,62,725.00	2,35,911.00
8.1.2.4 .28		4	1,13,64,192.00	2,38,036.00
8.1.2.4 .29	2000kg	1	1,01,46,170.00	2,01,906.00
8.1.2.4 .30		1.5	1,06,80,179.00	2,12,531.00
8.1.2.4 .31		2	1,14,27,791.00	2,27,408.00
8.1.2.4 .32		2.5	1,15,87,993.00	2,30,596.00
8.1.2.4 .33		3	1,17,48,198.00	2,33,784.00
8.1.2.4 .34		3.5	1,18,54,999.00	2,35,911.00
8.1.2.4 .35		4	1,19,61,800.00	2,38,036.00
8.1.2.4 .36	2500kg	1	1,16,68,096.00	2,32,192.00
8.1.2.4 .37		1.5	1,22,82,205.00	2,44,411.00
8.1.2.4 .38		2	1,31,41,959.00	2,61,519.00
8.1.2.4 .39		2.5	1,33,26,194.00	2,65,185.00
8.1.2.4 .40		3	1,35,10,427.00	2,68,852.00
8.1.2.4 .41		3.5	1,36,33,248.00	2,71,298.00
8.1.2.4 .42		4	1,37,56,069.00	2,73,741.00

8.1.2.5 Cargo//Goods/Service Lift

The cargo lift shall have the following features -

i) designed and manufactured in accordance with requirements of Lifts Directive 95/16/CE, throughout the accomplishment of Harmonized Norm EN 81-2 and the Directive of Electromagnetic Compatibility 89/336/CEE.

ii) Test Certificate CE Type ATI/LD-VB/M012/99 (institution registered 0053), as MODEL LIFT

8.1.2.5 Cargo Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Cargo Lift	
			Upto 3-stop Price	Next per stop
8.1.2.5.1	1600 kg	1.0	1,00,39,850.00	4,56,592.00
8.1.2.5.2	2000kg	1.0	1,11,39,657.00	4,56,592.00
8.1.2.5.3	2500 kg	1.0	1,17,95,096.00	4,56,592.00

মোহাম্মদ আজাদ ছাদ্দিকী
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.3 **Type B1**

The lift manufacturing company shall have lift manufacturing capability for speed 4 m / sec (minimum) and utilizes energy saving technology and shall have lift manufacturing experience in their own factory for a period of not less than 30 years, complying all other detailed specification and standards stated in the item. The lift should be manufactured and tested in USA/ UK / JAPAN / EU Countries .

The proposed lift manufacturing company shall have it's own testing tower at factory premises and R&D(Research and development) wing/centre . Besides, it manufactures controller, inverter , motherboard & all PCBs (Printed Circuit Boards) in it's own factory . Permanent Magnet Synchronous (PMS) type gearless motor & Door Inverter must be tested and manufactured in USA/ UK / JAPAN / EU Countries .The proposed lift manufacturing company shall have TUV/DNV certificate for its complete lift of proposed lift model and lift shall be comprised of all certified (by TUV/SUD/Liftinstituut/Intertek/UL/Eurocert S A /IMQ/ DEKRA/CSA group/Kayra Certification) major parts such as PMS type gearless Traction machine, Motor brake unit, Control Panel, Overspeed governor, Progressive Safety gear, Car and landing door, all door drive, ARD, hydraulic buffer Steel wire rope, Guide rails, and complying all other terms and conditions as per detailed technical specification

8.1.3.1 **Passenger Lift**

8.1.3.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.3.1.1	630 kg	1	67,13,211.00	2,56,686.00
8.1.3.1.2		1.5	70,66,537.00	2,71,191.00
8.1.3.1.3		2	75,61,193.00	2,90,363.00
8.1.3.1.4		2.5	76,67,193.00	2,95,598.00
8.1.3.1.5		3	77,73,190.00	2,98,940.00
8.1.3.1.6		3.5	78,43,856.00	3,04,111.00
8.1.3.1.7		4	79,14,519.00	3,06,761.00
8.1.3.1.8	800kg	1	81,52,068.00	2,56,686.00
8.1.3.1.9		1.5	85,81,123.00	2,71,191.00
8.1.3.1.10		2	91,81,800.00	2,90,363.00
8.1.3.1.11		2.5	93,10,518.00	2,95,598.00
8.1.3.1.12		3	94,39,233.00	2,98,940.00
8.1.3.1.13		3.5	95,25,046.00	3,04,111.00
8.1.3.1.14		4	96,10,858.00	3,06,761.00
8.1.3.1.15	1000kg	1	1,00,71,990.00	2,56,686.00
8.1.3.1.16		1.5	1,06,02,096.00	2,71,191.00
8.1.3.1.17		2	1,13,44,243.00	2,90,363.00
8.1.3.1.18		2.5	1,15,03,276.00	2,95,598.00
8.1.3.1.19		3	1,16,62,307.00	2,98,940.00
8.1.3.1.20		3.5	1,17,68,329.00	3,04,111.00
8.1.3.1.21		4	1,18,74,349.00	3,06,761.00
8.1.3.1.22	1250kg	1	1,11,04,581.00	2,59,791.00
8.1.3.1.23		1.5	1,16,89,033.00	2,76,284.00
8.1.3.1.24		2	1,25,07,264.00	2,98,280.00
8.1.3.1.25		2.5	1,26,82,601.00	3,02,181.00
8.1.3.1.26		3	1,28,57,937.00	3,05,453.00
8.1.3.1.27		3.5	1,29,74,826.00	3,09,946.00
8.1.3.1.28		4	1,30,91,716.00	3,14,439.00
8.1.3.1.29	1600kg	1	1,24,92,657.00	2,59,791.00
8.1.3.1.30		1.5	1,31,50,164.00	2,76,284.00
8.1.3.1.31		2	1,40,70,674.00	2,98,280.00
8.1.3.1.32		2.5	1,42,67,927.00	3,02,181.00
8.1.3.1.33		3	1,44,65,179.00	3,05,453.00
8.1.3.1.34		3.5	1,45,96,680.00	3,09,946.00
8.1.3.1.35		4	1,47,28,182.00	3,14,439.00
8.1.3.1.36	1800kg	1	1,31,86,691.00	2,59,791.00
8.1.3.1.37		1.5	1,38,80,727.00	2,76,284.00
8.1.3.1.38		2	1,48,52,379.00	2,98,280.00
8.1.3.1.39		2.5	1,50,60,589.00	3,02,181.00

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.3.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.3.1.40	1800kg	3	1,52,68,800.00	3,05,453.00
8.1.3.1.41		3.5	1,54,07,606.00	3,09,946.00
8.1.3.1.42		4	1,55,46,415.00	3,14,439.00
8.1.3.1.43	2000kg	1	1,38,80,725.00	2,59,791.00
8.1.3.1.44		1.5	1,46,11,290.00	2,76,284.00
8.1.3.1.45		2	1,56,34,080.00	2,98,280.00
8.1.3.1.46		2.5	1,58,53,252.00	3,02,181.00
8.1.3.1.47		3	1,60,72,421.00	3,05,453.00
8.1.3.1.48		3.5	1,62,18,535.00	3,09,946.00
8.1.3.1.49		4	1,63,64,646.00	3,14,439.00

8.1.3.2 Bed / Stretcher Lift

8.1.3.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3-stop Price	Next per stop
8.1.3.2.1	1000kg	1	1,00,71,990.00	2,56,686.00
8.1.3.2.2		1.5	1,06,02,096.00	2,71,191.00
8.1.3.2.3		2	1,13,44,243.00	2,90,363.00
8.1.3.2.4		2.5	1,15,03,276.00	2,95,598.00
8.1.3.2.5		3	1,16,62,307.00	2,98,940.00
8.1.3.2.6		3.5	1,17,68,329.00	3,04,111.00
8.1.3.2.7		4	1,18,74,349.00	3,06,761.00
8.1.3.2.8	1250kg	1	1,11,04,581.00	2,59,791.00
8.1.3.2.9		1.5	1,16,89,033.00	2,76,284.00
8.1.3.2.10		2	1,25,07,264.00	2,98,280.00
8.1.3.2.11		2.5	1,26,82,601.00	3,02,181.00
8.1.3.2.12		3	1,28,57,937.00	3,05,453.00
8.1.3.2.13		3.5	1,29,74,826.00	3,09,946.00
8.1.3.2.14		4	1,30,91,716.00	3,14,439.00
8.1.3.2.15	1600kg	1	1,24,92,657.00	2,59,791.00
8.1.3.2.16		1.5	1,31,50,164.00	2,76,284.00
8.1.3.2.17		2	1,40,70,674.00	2,98,280.00
8.1.3.2.18		2.5	1,42,67,927.00	3,02,181.00
8.1.3.2.19		3	1,44,65,179.00	3,05,453.00
8.1.3.2.20		3.5	1,45,96,680.00	3,09,946.00
8.1.3.2.21		4	1,47,28,182.00	3,14,439.00
8.1.3.2.22	1800kg	1	1,31,86,691.00	2,59,791.00
8.1.3.2.23		1.5	1,38,80,727.00	2,76,284.00
8.1.3.2.24		2	1,48,52,379.00	2,98,280.00
8.1.3.2.25		2.5	1,50,60,589.00	3,02,181.00
8.1.3.2.26		3	1,52,68,800.00	3,05,453.00
8.1.3.2.27		3.5	1,54,07,609.00	3,09,946.00
8.1.3.2.28		4	1,55,46,415.00	3,14,439.00
8.1.3.2.29	2000kg	1	1,38,80,725.00	2,59,791.00
8.1.3.2.30		1.5	1,46,11,290.00	2,76,284.00
8.1.3.2.31		2	1,56,34,080.00	2,98,280.00
8.1.3.2.32		2.5	1,58,53,252.00	3,02,181.00
8.1.3.2.33		3	1,60,72,421.00	3,05,453.00
8.1.3.2.34		3.5	1,62,18,535.00	3,09,946.00
8.1.3.2.35		4	1,63,64,646.00	3,14,439.00

8.1.3.3 Panorama/Capsule Lift

The panorama/capsule lift shall have the following features -

(i)Lift car shall have tempered and fire proof glass in three sides (including cabin & landing door).

(ii)The car shape may be customized as per direction of the Engineer.

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.3.3 Panorama/Capsule Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger/Capsule Lift	
			Upto 3-stop Price	Next per stop
8.1.3.3.1	630 kg	1	70,48,868.00	2,77,149.00
8.1.3.3.2		1.5	74,19,861.00	2,91,372.00
8.1.3.3.3		2	79,39,252.00	3,11,030.00
8.1.3.3.4	800kg	1	85,59,669.00	2,77,149.00
8.1.3.3.5		1.5	90,10,178.00	2,91,372.00
8.1.3.3.6		2	96,40,890.00	3,11,030.00
8.1.3.3.7	1000kg	1	1,10,03,649.00	2,87,167.00
8.1.3.3.8		1.5	1,15,82,789.00	3,01,054.00
8.1.3.3.9		2	1,23,93,584.00	3,24,907.00
8.1.3.3.10	1250kg	1	1,21,31,757.00	2,91,704.00
8.1.3.3.11		1.5	1,27,70,269.00	3,02,544.00
8.1.3.3.12		2	1,36,64,184.00	3,27,927.00
8.1.3.3.13	1600kg	1	1,36,48,227.00	2,91,704.00
8.1.3.3.14		1.5	1,43,66,555.00	3,02,544.00
8.1.3.3.15		2	1,53,72,213.00	3,27,927.00
8.1.3.3.16	2000kg	1	1,66,66,129.00	2,91,704.00
8.1.3.3.17		1.5	1,75,43,293.00	3,02,544.00
8.1.3.3.18		2	1,87,71,326.00	3,27,927.00

8.1.3.4 **Fire Fighters Lift**

The Firefighters Lift shall be designed in conformity with EN 81-20 and EN 81-72:2015 and provided with additional protection, controls and signals.

Basic requirement must be considered:

The lift shall be designed to operate correctly during firefighting operations for a period equal to that required for the structure, e.g. 2 hours according to the following conditions:

i) Electrical/electronic devices on landings, other than at the fire service access level, shall be designed to function correctly in an ambient temperature range of 0 °C to 65 °C or be made non-operational. A malfunction of devices (landing indicators and push buttons) shall not prevent operation of the lift under fire fighting conditions;

ii)The car roof shall be designed to prevent accumulating water and facilitate controlled draining from the roof. Electrical equipment within the car roof and outer walls shall be classified to at least IPX3 according to EN 60529.

iii) An emergency trap door shall be fitted to the car roof with minimum clear opening dimensions of 0,5 m x 0,7 m. Clear opening dimensions shall be measured with the ladder in the rescue position.

iv) The emergency trap door shall conform to EN 81-20:2014

v) A firefighter lift switch shall be located in the safe area intended to be used at the fire service access level. The switch shall be located within 2 m horizontally from the firefighters' lift, at a height between 1.4 m and 2.0 m above floor level. The switch shall be marked with a firefighters' lift pictogram and it shall be clearly indicated to which lift it is associated.

vi) Operation of the firefighters lift switch shall be by means of the unlocking key, which fits the unlocking triangle as defined in EN 81-20:2014,

Lift Operation procedure :

i) A lift parked at a landing, shall close the doors and travel nonstop to the fire service access level. An audible signal shall sound in the car until the doors are closed. At the latest when the actual door dwell time exceeds 15 s, all heat and smoke sensitive door protection devices shall be made inactive and the doors shall attempt to close under reduced power;

মোহাম্মদ আজাদ ছিদ্দিকী
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

ii) A lift travelling away from the fire service access level shall make a normal stop and reverse its direction at the nearest possible landing without opening the doors and return to the fire service access level;

iii) A lift travelling towards the fire service access level shall continue its travel non-stop to the fire service access level. If the lift has already started stopping at a level, it is acceptable to make a normal stop and without opening doors to continue to fire service access level;

iv)) On arriving at the fire service access level, the firefighters lift shall be retained there with the car and landing doors kept in the open position.

Car and landing controls

i)The car and landing controls and associated control system shall not register false signals from the effects of heat, smoke, water or moisture. The fire service access level shall have a car position indicator.

ii)The car controls, position indicator inside the car, position indicator at the fire service access level and the firefighters lift switch shall be protected to at least IPX3 according to EN 60529.

iii)The landing control panels and landing indicators on other levels than fire service access level shall be protected to at least IPX3 according to EN 60529 unless they are electrically disconnected on initiation of the firefighters lift switch.

iv) In case of fire hazard , the control panel shal have the capability to receive signal from fire alam control panel (FACP)/ detectors and accordingly, the car shall not stop at the particular floor where fire incident occurred.

8.1.3.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.3.4.1	1000kg	1	1,15,82,789.00	2,97,901.00
8.1.3.4.2		1.5	1,21,92,410.00	3,13,446.00
8.1.3.4.3		2	1,30,45,879.00	3,35,337.00
8.1.3.4.4		2.5	1,32,28,765.00	3,40,253.00
8.1.3.4.5		3	1,34,11,654.00	3,44,539.00
8.1.3.4.6		3.5	1,35,33,579.00	3,48,025.00
8.1.3.4.7		4	1,36,55,502.00	3,50,882.00
8.1.3.4.8	1250kg	1	1,27,70,269.00	3,05,066.00
8.1.3.4.9		1.5	1,34,42,389.00	3,20,723.00
8.1.3.4.10		2	1,43,83,353.00	3,41,602.00
8.1.3.4.11		2.5	1,45,84,990.00	3,45,806.00
8.1.3.4.12		3	1,47,86,628.00	3,50,640.00
8.1.3.4.13		3.5	1,49,21,051.00	3,54,704.00
8.1.3.4.14		4	1,50,55,472.00	3,57,507.00
8.1.3.4.15	1600kg	1	1,43,66,555.00	3,05,066.00
8.1.3.4.16		1.5	1,51,22,689.00	3,20,723.00
8.1.3.4.17		2	1,61,81,276.00	3,41,602.00
8.1.3.4.18		2.5	1,64,08,117.00	3,45,806.00
8.1.3.4.19		3	1,66,34,956.00	3,50,640.00
8.1.3.4.20		3.5	1,67,86,184.00	3,54,704.00
8.1.3.4.21		4	1,69,37,410.00	3,57,507.00
8.1.3.4.22	1800kg	1	1,51,64,695.00	3,05,066.00
8.1.3.4.23		1.5	1,59,62,836.00	3,20,723.00
8.1.3.4.24		2	1,70,80,234.00	3,41,602.00
8.1.3.4.25		2.5	1,73,19,677.00	3,45,806.00
8.1.3.4.26		3	1,75,59,120.00	3,50,640.00
8.1.3.4.27		3.5	1,77,18,749.00	3,54,704.00
8.1.3.4.28		4	1,78,78,376.00	3,57,507.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.3.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.3.4.29	2000kg	1	1,59,62,834.00	3,05,066.00
8.1.3.4.30		1.5	1,68,02,984.00	3,20,723.00
8.1.3.4.31		2	1,79,79,193.00	3,41,602.00
8.1.3.4.32		2.5	1,82,31,240.00	3,45,806.00
8.1.3.4.33		3	1,84,83,284.00	3,50,640.00
8.1.3.4.34		3.5	1,86,51,315.00	3,54,704.00
8.1.3.4.35		4	1,88,19,343.00	3,57,507.00

8.1.4 Type B2

The lift manufacturing company shall have lift manufacturing experience in their own factory for a period of not less than 15 years and capability of manufacturing lift for speed 3 m / sec (minimum); where the lift shall be manufactured and tested , complying all other detailed specification/ standard stated in the item.

The proposed lift manufacturing company shall have TUV/DNV certificate for its complete lift of proposed lift model and lift shall be comprised of all certified (by TUV/SUD/Liftinstituut/Intertek/UL/Eurocert S A /IMQ/ DEKRA/CSA group/Kayra Certification) major parts as PMS type gearless Traction machine, Motor brake unit, Control Panel, Overspeed governor, Progressive Safety gear, Car and landing door, all door drive, ARD, hydraulic buffer Steel wire rope, Guide rails, and complying all other terms and conditions as per detailed technical specification .

8.1.4.1 Passenger Lift

8.1.4.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.4.1.1	630 kg	1	36,11,073.00	1,27,439.00
8.1.4.1.2		1.5	38,01,130.00	1,34,147.00
8.1.4.1.3		2	40,67,210.00	1,43,539.00
8.1.4.1.4		2.5	41,24,226.00	1,45,551.00
8.1.4.1.5		3	41,81,243.00	1,47,562.00
8.1.4.1.6	800kg	1	43,84,877.00	1,27,439.00
8.1.4.1.7		1.5	46,15,659.00	1,34,147.00
8.1.4.1.8		2	49,38,757.00	1,43,539.00
8.1.4.1.9		2.5	50,07,992.00	1,45,551.00
8.1.4.1.10		3	50,77,226.00	1,47,562.00
8.1.4.1.11	1000kg	1	49,14,004.00	1,27,439.00
8.1.4.1.12		1.5	51,72,633.00	1,34,147.00
8.1.4.1.13		2	55,34,720.00	1,43,539.00
8.1.4.1.14		2.5	56,12,310.00	1,45,551.00
8.1.4.1.15		3	56,89,900.00	1,47,562.00

মোহাম্মদ আজাদ ছাহাদাত
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.4.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.4.1.16	1250kg	1	54,24,622.00	1,34,935.00
8.1.4.1.17		1.5	57,10,129.00	1,42,037.00
8.1.4.1.18		2	61,09,837.00	1,51,979.00
8.1.4.1.19		2.5	61,95,490.00	1,54,109.00
8.1.4.1.20		3	62,81,142.00	1,56,240.00
8.1.4.1.21	1600kg	1	61,02,661.00	1,34,935.00
8.1.4.1.22		1.5	64,23,853.00	1,42,037.00
8.1.4.1.23		2	68,73,524.00	1,51,979.00
8.1.4.1.24		2.5	69,69,880.00	1,54,109.00
8.1.4.1.25		3	70,66,238.00	1,56,240.00
8.1.4.1.26	2000kg	1	67,80,733.00	1,34,935.00
8.1.4.1.27		1.5	71,37,613.00	1,42,037.00
8.1.4.1.28		2	76,37,247.00	1,51,979.00
8.1.4.1.29		2.5	77,44,310.00	1,54,109.00
8.1.4.1.30		3	78,51,376.00	1,56,240.00

8.1.4.2 Bed / Stretcher Lift

8.1.4.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3stop Price	Next per stop
8.1.4.2.1	1000kg	1	49,14,004.00	1,27,439.00
8.1.4.2.2		1.5	51,72,633.00	1,34,147.00
8.1.4.2.3		2	55,34,720.00	1,43,539.00
8.1.4.2.4		2.5	56,12,310.00	1,45,551.00
8.1.4.2.5		3	56,89,900.00	1,47,562.00
8.1.4.2.6	1250kg	1	54,24,622.00	1,34,935.00
8.1.4.2.7		1.5	57,10,129.00	1,42,037.00
8.1.4.2.8		2	61,09,837.00	1,51,979.00
8.1.4.2.9		2.5	61,95,490.00	1,54,109.00
8.1.4.2.10		3	62,81,142.00	1,56,240.00
8.1.4.2.11	1600kg	1	61,02,661.00	1,34,935.00
8.1.4.2.12		1.5	64,23,853.00	1,42,037.00
8.1.4.2.13		2	68,73,524.00	1,51,979.00
8.1.4.2.14		2.5	69,69,880.00	1,54,109.00
8.1.4.2.15		3	70,66,238.00	1,56,240.00
8.1.4.2.16	2000kg	1	67,80,733.00	1,34,935.00
8.1.4.2.17		1.5	71,37,613.00	1,42,037.00
8.1.4.2.18		2	76,37,247.00	1,51,979.00
8.1.4.2.19		2.5	77,44,310.00	1,54,109.00
8.1.4.2.20		3	78,51,376.00	1,56,240.00

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.4.3 **Panorama / Capsule Lift**

The panorama/capsule lift shall have the following features -

(i)Lift car shall have tempered and fire proof glass in three sides (including cabin & landing door).

(ii)The car shape may be customized as per site requirement & direction of the Engineer in charge.

8.1.4.3 Panorama/Capsule Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger/Capsule Lift	
			Upto 3-stop Price	Next per stop
8.1.4.3.1	630 kg	1	37,91,627.00	1,33,812.00
8.1.4.3.2		1.5	39,91,188.00	1,40,854.00
8.1.4.3.3		2	42,70,569.00	1,50,714.00
8.1.4.3.4	800kg	1	46,04,121.00	1,33,812.00
8.1.4.3.5		1.5	48,46,444.00	1,40,854.00
8.1.4.3.6		2	51,85,695.00	1,50,714.00
8.1.4.3.7	1000kg	1	51,59,702.00	1,33,812.00
8.1.4.3.8		1.5	54,31,268.00	1,40,854.00
8.1.4.3.9		2	58,11,455.00	1,50,714.00
8.1.4.3.10	1250kg	1	56,95,852.00	1,41,681.00
8.1.4.3.11		1.5	59,95,633.00	1,49,138.00
8.1.4.3.12		2	64,15,329.00	1,59,580.00
8.1.4.3.13	1600kg	1	68,56,340.00	1,41,681.00
8.1.4.3.14		1.5	72,17,200.00	1,49,138.00
8.1.4.3.15		2	72,44,179.00	1,59,580.00
8.1.4.3.16	2000kg	1	71,19,769.00	1,41,681.00
8.1.4.3.17		1.5	74,94,493.00	1,49,138.00
8.1.4.3.18		2	80,19,109.00	1,59,580.00

8.1.4.4 **Fire Fighters Lift**

The Firefighters Lift shall be designed in conformity with EN 81-20 and EN 81-72:2015 and provided with additional protection, controls and signals.

Basic requirement must be considered:

The lift shall be designed to operate correctly during firefighting operations for a period equal to that required for the structure e.g. 2 hours according to the following conditions:

i) Electrical/electronic devices on landings, other than at the fire service access level, shall be designed to function correctly in an ambient temperature range of 0 °C to 65 °C or be made non-operational. A malfunction of devices (landing indicators and push buttons) shall not prevent operation of the lift under fire fighting conditions;

ii)The car roof shall be designed to prevent accumulating water and facilitate controlled draining from the roof. Electrical equipment within the car roof and outer walls shall be classified to at least IPX3 according to EN 60529.

iii) An emergency trap door shall be fitted to the car roof with minimum clear opening dimensions of 0.5 m x 0.7 m. Clear opening dimensions shall be measured with the ladder in the rescue position.

iv) The emergency trap door shall conform to EN 81-20:2014

v) A firefighter lift switch shall be located in the safe area intended to be used at the fire service access level. The switch shall be located within 2 m horizontally from the firefighters' lift, at a height between 1.4 m and 2.0 m above floor level. The switch shall be marked with a firefighters' lift pictogram and it shall be clearly indicated to which lift it is associated.

vi) Operation of the firefighters lift switch shall be by means of the unlocking key, which fits the unlocking triangle as defined in EN 81-20:2014,

মোহাম্মদ আজাদ ছাল্লাদী
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Lift Operation procedure :

i) A lift parked at a landing, shall close the doors and travel nonstop to the fire service access level. An audible signal shall sound in the car until the doors are closed. At the latest when the actual door dwell time exceeds 15 s, all heat and smoke sensitive door protection devices shall be made inactive and the doors shall attempt to close under reduced power;

ii)A lift travelling away from the fire service access level shall make a normal stop and reverse its direction at the nearest possible landing without opening the doors and return to the fire service access level;

iii) A lift travelling towards the fire service access level shall continue its travel non-stop to the fire service access level. If the lift has already started stopping at a level, it is acceptable to make a normal stop and without opening doors to continue to fire service access level;

iv) On arriving at the fire service access level, the firefighters lift shall be retained there with the car and landing doors kept in the open position.

Car and landing controls

i)The car and landing controls and associated control system shall not register false signals from the effects of heat, smoke, water or moisture. The fire service access level shall have a car position indicator.

ii)The car controls, position indicator inside the car, position indicator at the fire service access level and the firefighters lift switch shall be protected to at least IPX3 according to EN 60529.

iii)The landing control panels and landing indicators on other levels than fire service access level shall be protected to at least IPX3 according to EN 60529 unless they are electrically disconnected on initiation of the firefighters lift switch.

iv) In case of fire hazard , the control panel shal have the capability to receive signal from fire alam control panel (FACP)/ detectors and accordingly, the car shall not stop at the particular floor where fire incident occurred.

8.1.4.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.4.4.1	1000kg	1	54,05,404.00	1,40,184.00
8.1.4.4.2		1.5	56,89,900.00	1,47,562.00
8.1.4.4.3		2	60,88,191.00	1,57,892.00
8.1.4.4.4		2.5	61,73,539.00	1,60,104.00
8.1.4.4.5		3	62,58,887.00	1,62,317.00
8.1.4.4.6	1250kg	1	59,67,084.00	1,48,428.00
8.1.4.4.7		1.5	62,81,142.00	1,56,240.00
8.1.4.4.8		2	67,20,821.00	1,67,176.00
8.1.4.4.9		2.5	68,15,037.00	1,69,520.00
8.1.4.4.10		3	69,09,254.00	1,71,864.00
8.1.4.4.11	1600kg	1	67,12,927.00	1,48,428.00
8.1.4.4.12		1.5	70,66,238.00	1,56,240.00
8.1.4.4.13		2	75,60,876.00	1,67,176.00
8.1.4.4.14		2.5	76,66,869.00	1,69,520.00
8.1.4.4.15		3	77,72,862.00	1,71,864.00

8.1.4.4 Fire Fighters Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Fire Fighters Lift	
			Upto 3-stop Price	Next per stop
8.1.4.4.16	2000kg	1	74,58,806.00	1,48,428.00
8.1.4.4.17		1.5	78,51,376.00	1,56,240.00
8.1.4.4.18		2	84,00,969.00	1,67,176.00
8.1.4.4.19		2.5	85,18,742.00	1,69,520.00
8.1.4.4.20		3	86,36,513.00	1,71,864.00

২৬.৫.২০২৬
মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.4.5 **Car Lift**

The Car Lift lift shall have the following features -

i) Designed and manufactured in accordance with requirements of Lifts Directive 95/16/CE, throughout the accom plishment of Harmonized Norm EN 81-2 and the Directive of Electromagnetic Compatibility 89/336/CEE.

ii) Test Certificate CE Type ATI/LD-VB/M012/99 (institution registered 0053), as MODEL LIFT

8.1.4.5 Car Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Car Lift	
			Upto 3-stop Price	Next per stop
8.1.4.5.1	3000 kg	0.5	1,48,81,013.00	6,66,314.00
8.1.4.5.2	4000 kg	0.5	1,71,02,059.00	6,66,314.00
8.1.4.5.3	5000 kg	0.5	1,92,12,054.00	7,77,366.00

8.1.5 **Type C**

Lift manufactured and tested in Bangladesh in accordance with latest BNBC and EN-81, EN-81/20, EN-81/50 certified by TUV/DNV or equivalent internationally recognized organization and the lift manufacturing company shall have minimum 4 years of manufacturing experience & lift manufacturing capability for speed 3 m / sec (minimum) .

The proposed lift manufacturing company shall have it's own testing tower at factory premises suitable for testing elevator of speed 3 m / sec (minimum) and R&D(Research and development) wing/centre . Besides components like motor, brake, speed governor, buffer, limit switches,controller, inverter, progressive safety gear, steel ropes, motherboard & all PCBs (Printed Circuit Boards) must be manufactured and tested in USA/UK/EU/Japan provided that any of the those components registered under own brand , certified by international accredited body & approved by competent authority of PWD , will be exempted from the requirement of country of manufacture . It should have a certificate for its complete lift which is comprised of all certified (by TUV/SUD/Liftinstituut/Intertek / UL / Eurocert S A /IMQ/ DEKRA/CSA group/Kayra Certification) major parts such as PMS type gearless Traction machine, Motor brake unit, Control Panel, Overspeed governor, Progressive Safety gear, Car and landing door, all door drive, ARD, Hydraulic buffer, Steel wire rope, Guide rails and complying all other terms and conditions as per detailed technical specification.

8.1.5.1 **Passenger Lift**

8.1.5.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.5.1.1	630 kg	1	33,94,409.00	1,19,793.00
8.1.5.1.2		1.5	35,73,063.00	1,26,098.00
8.1.5.1.3		2	38,23,177.00	1,34,926.00
8.1.5.1.4	800kg	1	41,21,784.00	1,19,793.00
8.1.5.1.5		1.5	43,38,720.00	1,26,098.00
8.1.5.1.6		2	46,42,432.00	1,34,926.00
8.1.5.1.7	1000kg	1	46,19,163.00	1,19,793.00
8.1.5.1.8		1.5	48,62,275.00	1,26,098.00
8.1.5.1.9		2	52,02,636.00	1,34,926.00
8.1.5.1.10	1250kg	1	50,99,145.00	1,26,839.00
8.1.5.1.11		1.5	53,67,521.00	1,33,515.00
8.1.5.1.12		2	57,43,247.00	1,42,860.00
8.1.5.1.13	1600kg	1	57,36,501.00	1,26,839.00
8.1.5.1.14		1.5	60,38,422.00	1,33,515.00
8.1.5.1.15		2	64,61,113.00	1,42,860.00

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

8.1.5.1 Passenger Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger Lift	
			Upto 3-stop Price	Next per stop
8.1.5.1.16	1800kg	1	60,55,195.00	1,26,839.00
8.1.5.1.17		1.5	63,73,889.00	1,33,515.00
8.1.5.1.18		2	68,20,062.00	1,42,860.00
8.1.5.1.19	2000kg	1	63,73,889.00	1,26,839.00
8.1.5.1.20		1.5	67,09,357.00	1,33,515.00
8.1.5.1.21		2	71,79,012.00	1,42,860.00

8.1.5.2 **Bed / Stretcher Lift**

8.1.5.2 Bed / Stretcher Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Bed / Stretcher Lift	
			Upto 3-stop Price	Next per stop
8.1.5.2.1	1000kg	1	46,19,163.00	1,19,793.00
8.1.5.2.2		1.5	48,62,275.00	1,26,098.00
8.1.5.2.3		2	52,02,636.00	1,34,926.00
8.1.5.2.4	1250kg	1	50,99,145.00	1,26,839.00
8.1.5.2.5		1.5	53,67,521.00	1,33,515.00
8.1.5.2.6		2	57,43,247.00	1,42,860.00
8.1.5.2.7	1600kg	1	57,36,501.00	1,26,839.00
8.1.5.2.8		1.5	60,38,422.00	1,33,515.00
8.1.5.2.9		2	64,61,113.00	1,42,860.00
8.1.5.2.10	1800kg	1	60,55,195.00	1,26,839.00
8.1.5.2.11		1.5	63,73,889.00	1,33,515.00
8.1.5.2.12		2	68,20,062.00	1,42,860.00
8.1.5.2.13	2000kg	1	63,73,889.00	1,26,839.00
8.1.5.2.14		1.5	67,09,357.00	1,33,515.00
8.1.5.2.15		2	71,79,012.00	1,42,860.00

8.1.5.3 **Observation /Capsule Lift**

The observation /capsule lift shall have the following features -

(i)Lift car shall have tempered and fire proof glass in three sides (including cabin & landing door).

(ii)The car shape may be customized as per direction of the Engineer.

8.1.5.3 Observation /Capsule Lift				
Capacity (Kg)(Minimum)		Speed (m/sec)	Unit Price (Tk) for All Zones	
			Passenger/Capsule Lift	
			Upto 3-stop Price	Next per stop
8.1.5.3.1	630 kg	1	35,64,129.00	1,25,783.00
8.1.5.3.2		1.5	37,51,716.00	1,32,403.00
8.1.5.3.3		2	40,14,334.00	1,41,671.00
8.1.5.3.4	800kg	1	43,27,874.00	1,25,783.00
8.1.5.3.5		1.5	45,55,657.00	1,32,403.00
8.1.5.3.6		2	48,74,554.00	1,41,671.00
8.1.5.3.7	1000kg	1	48,50,120.00	1,25,783.00
8.1.5.3.8		1.5	51,05,392.00	1,32,403.00
8.1.5.3.9		2	54,62,768.00	1,41,671.00
8.1.5.3.10	1250kg	1	53,54,101.00	1,33,180.00
8.1.5.3.11		1.5	56,35,895.00	1,40,190.00
8.1.5.3.12		2	60,30,409.00	1,50,005.00
8.1.5.3.13	1600kg	1	64,44,960.00	1,33,180.00
8.1.5.3.14		1.5	67,84,168.00	1,40,190.00
8.1.5.3.15		2	68,09,528.00	1,50,005.00
8.1.5.3.16	2000kg	1	66,92,583.00	1,33,180.00
8.1.5.3.17		1.5	70,44,824.00	1,40,190.00
8.1.5.3.18		2	75,37,962.00	1,50,005.00

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Estimation guideline for glass door Lift

For the Lift consists of 10 mm thick tempered glass doors, price per stop will be increased according to the table below :

Door Width (mm)	Lift Type	Price Increment per stop (Tk)
800-1000	A1 & B1	Tk. 37,000
	A2 , B2 & C	Tk. 22,000
1100-1300	A1 & B1	Tk. 95,000
	A2 , B2 & C	Tk. 45,000

Detailed Specification of Lift (Passenger/ Bed/ Capsule/ Fire Fighters) :

I. Type :Gearless, oil free, permanent magnet synchronus motor driven type passenger/ Bed

II. Capacity : ---------- kg. (---------- Passenger) (To be inserted)

III. No of stops : ---------- Stops. (To be inserted)

IV. Travelling speed :.....m / sec (To be selected)

V. Car Travel height : ---------- Meters (approximate) (To be inserted)

VI. Floor Designation : (G, 1, 2, 3.....) (to be mentioned)

VII. Power rating : Compatible with the capacity of the lift as mentioned above with 240 starts per hour minimum. (180 starts per hour 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 : .....mm(Width) x .....mm(Depth), [the Dimensions to be inserted as per requirement mentioned in the standard chart given below or as per built -in shaft size].

IX. (b) Overhead Height : .....mm [to be selected from Chart]

X. Pit Depth : .....mm [to be selected from Chart]

XI. Machine Room Location : Directly above hoist way ; MR (Machine room) / MRL (Machine Room Less) type

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 / Duplex / Triplex / Quad duplex / DDS (Destination Dispatch System)

XVI. **Control System :** Collective selective, fully programmable microprocessor-based elevator control system with AC-VVVF IGBT inverter drive, designed for safe, smooth and energy-efficient operation, BMS compatible, compliant with EN 81-20:2020 (Clauses 5.9, 5.11, 5.12) and EN 81-50. Closed-loop control with encoder feedback shall ensure speed variation within ±10% from no-load to full-load and accurate stopping and self-levelling independent of load, temperature or suspension elongation.

The system shall incorporate overspeed protection, unintended car movement protection (UCM) and ascending car overspeed protection in accordance with EN 81-20:2014+A1:2020 (Clause 5.6.7), and shall automatically stop the car if speed exceeds 120% of rated speed. Audible and visual alarm devices shall be provided in the car, machine room/control cabinet and other locations as directed. The controller and drive shall be OEM-designed and manufactured as an integrated system, and type test certificates as per EN 81-50 shall be submitted during execution.

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

XVII. **Additional controls & accessories :**
Overload and full-load control with visual and audible indication; attendant operation facility; fireman's control switch at ground floor (where applicable); two-way intercommunication system between car, machine room/control cabinet and designated location; door open/close buttons in car; automatic control of car light and ventilation fan via sensor; forced ventilation fan integrated in car ceiling; lift pit water detection system, all in compliance with EN 81-20 (Clauses 5.12 & 5.13).

XVIII. **Maintenance / Inspection Control :** Car-top inspection and maintenance control station comprising inspection initiation switch, directional (up/down) buttons and emergency stop button, fully compliant with EN 81-20 (Clauses 5.7.1 & 5.7.2).

XIX. **Traction Machine :** Gearless, oil-free permanent magnet synchronous motor (PMSM), insulation class F or higher, OEM-designed and manufactured, with minimum efficiency of 90%, low vibration and low acoustic noise characteristics, compliant with EN 81-20 and EN 81-50..

XX. **Machine Brake System**
The traction machine shall be provided with a normally-closed, spring-applied, electro-mechanically released fail-safe brake acting directly on the motor shaft or traction sheave, independent of the drive system, capable of stopping and holding the car with rated load, in compliance with EN 81-20 (Clause 5.9.2).

The brake shall automatically apply upon power failure or fault, be electrically monitored, and ensure smooth, jerk-free stopping suitable for bed and hospital lift operation.

The brake shall be type-tested and certified as a safety component in accordance with EN 81-50 by an internationally recognized body (TÜV / DNV or equivalent), and valid certificates shall be submitted.

XXI. **Drive system :** AC-VVVF inverter drive with IGBT technology providing closed-loop speed and torque control with encoder feedback for smooth acceleration, deceleration and accurate floor approach, compliant with EN 81-20 (Clauses 5.9, 5.11) and EN 81-50.
The drive shall ensure low jerk, minimal vibration and stable stopping performance suitable for passenger and bed/hospital lifts, under all load and supply conditions.

XXII. **Smooth leveling :** Automatic self-levelling system maintaining car-to-floor alignment within ±5 mm under normal loading and unloading conditions, independent of load variation, temperature and suspension elongation; system shall ensure minimal stopping shock and stable horizontal transfer of beds and stretchers, compliant with EN 81-20 (Clause 5.12.1).

XXIII. **Ride Quality Requirement:** The lift shall be designed to achieve smooth ride quality with controlled jerk, vibration and noise levels suitable for hospital operation, and shall meet the acceptance criteria of ISO 18738 (Ride Comfort Measurement) or equivalent internationally recognized standard.

XXIV. **CAR :** Car size .....mm (width) x.....mm (depth), the dimensions to be inserted from the standard chart given below or as per customised condition of the built-in shaft. Car height shall be 2400 mm.

XXV.

(a) **Car Structure & Mechanical Integrity :**
Frame & Safety: Passenger-type car body constructed from structural sheet steel (SS 304/441 grade).
Isolation: Assembly must include elastic isolators between metal components to minimize vibration and noise during travel. Load Bearing: The car roof must support a minimum of two persons or a 150Kg load without compromise. Platform: Securely fastened sheet steel platform featuring fire-resistant, sound-absorbing synthetic materials (Classification M3 / EN 13501-1 Class Cfl, S2).

(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.

Cabin Interior & Aesthetics

24/8/25 25/8/25 26/08/26 26/4/26 26.4.2026

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

(c) Walls: Constructed from 1.5 mm thick sheet steel with 0.7 mm stainless steel finishes (Hairline, Mirror, or Digital Print). Fire Safety: Materials must meet French Classification M2 (EN 13501-1 Class Cs2}, d1$).
Ceiling: Anodized metal frame with decorative stainless steel and LED luminous panels.
Normal Mode: Minimum 100 Lux at 1 m above the floor.
Emergency Mode: Minimum 5 Lux for 1 hour near emergency controls.
Handrails: Three stainless steel handrails (minimum 100 mm width or 30 mm diameter).
Additional Features: Full-rear-wall mirror and concealed ventilation fans providing 20 air changes per hour.

(d) **Entrance & Door Systems** :
Door Type: Fully automatic heavy-duty horizontal sliding doors (Center or Side opening).
Standard Dimensions: Clear height of **2100** mm.
Structural Integrity: Doors and panels must withstand a 300 N force with 1mm permanent deformation and a 1000 N force without disengaging from guides.
Sills: Extruded aluminum with anti-slip grooving and integrated guiding slots.
Safety Sensors: Non-contact electronic full-height infrared light curtains and retractable safety shoes.

(e) **Control Interfaces (LOP & COP)** : Panel
Design: Metallic structures with LED-backlit call buttons and digital position indicators.
Arrival Notification: Integrated arrival gongs and direction arrows at all landings and inside the car.
Functionality: Car Operating Panel (COP) includes a manual call cancellation system.
Ergonomics: Hall call buttons centered at a nominal height of 1 m above floor level .

(f) **Technical Safety & Shaft Requirements:**
Emergency Access: Car roof must feature an emergency trap door (minimum 0.4 m X 0.5 m clear opening) accessible from both sides.
Maintenance Safety: Top-of-shaft safety refuge spaces must be at least 2.0 m x 0.4 m x 0.5 m .
Braking System: Must include self-checking arrangements to ensure operational reliability.
Illumination: Machine Room: Minimum 200 Lux.
Shaft/Pit: Minimum 50 Lux at 1 m above the pit floor and car roof.
Operational Protection: Features auto-phase reversal correction and door reversal upon obstruction.

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 4mm 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 4mm 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 or Polyurethane coated steel belt / Ultra rope
* The rope suspension is to be constructed to shut the lift down if 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 (i.e. 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 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.

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

XXIX: **<u>Traveling cable, wiring</u>** :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: **<u>Automatic Rescue Device (ARD)</u>** : Built-in Automatic Rescue Device set (ARD) set as per capacity of lift set with following specification travel height : 3.5 m to 7.0 m. Drive system : min 3 times/h and starting time after min 20 sec & max 180 sec that can be set manually. 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. **<u>Painting</u>** : All exposed ferrous metal parts of machine, car, doors and other materials in the hoistway including guide rail fixation brackets (except guide rails) will have one coat of factory rust protecting paint.

XXII. **<u>Operation and Maintenance</u>** : 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. **<u>Standard / conformity</u>** : The entire lift shall be designed & manufactured as per latest version of EN-81 standards, EN-81-20, EN 81-50. Permanent Magnet Synchronous (PMS) type gearless motor and 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 Permanent Magnet Synchronous (PMS) type gearless motor, controller and 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 ISO certificate(s) of the manufacturer including lift ride quality measurement ISO 18738/5 shall also have to be submitted by the bidder.

End of Lift specification

মোহাম্মদ আজাদ ছাল্লাল

***** **Detailed Specification of Cargo/Goods/Service Lift :**

Capacity: _____Kg

Travel Speed: _____m/sec

Rise: meters

Stops & openings:_____ Stops and _____ openings (Both sides/ Single side)

Signals: Up - Down direction indicators, position indicators in car and at all floors, battery operated emergency alarm bell

Operating voltage: 3phase, 415 volts, AC, 50 Hz

Controlling: Microprocessor Controlled, down collective control

Car size: Dimension _____mm X ____mm, stainless steel cabin with fan LED Panel light, Aluminum checkered flooring, voice announcing System

Shaft Size: _____mm X mm.

Clear entrance: 1000mm

Car Door: M.S. Collapsible manual door.

Landing Doors: M.S. Collapsible manual door

Overhead height: 4800mm .

Pit depth:1600mm

Cabin, Car frame, Safety and Governor:
Structural Steel Car Frame to support the Car platform and enclosure shall be provided with suitable gear fixed underneath the frame. The safety, which is actuated by a speed governor, automatically and compulsorily, bring the car to an immediate stop by clutching the car mechanically between the guide rails in case the car speed exceeds a predetermined limit. A safety switch shall be provided to cut off the control circuit and apply the brakes as soon as safety is activated. The safety will be operated by a centrifugal over speed governor which is located either in machine room or in the hoist way depending on site conditions. Linkage to safeties connected through a continuous steel rope with car frame.

Safety switches: :
shall be provided on top of the cage as well as governor base as required to cut off power to the motor before application of the safeties.

Machine:
Single worm traction type located directly above the lift duct. Worm gear with worm wheel of centrifugally cast bronze and worm of specially forged steel both running in bearing to ensure vibration free travel with specially designed high duty lift motor with low starting current and high starting torque.

Limit switches:
Limit switches shall be provided ensuring to act independently of operating device for cutting all the energizing current in case of car travelling beyond the top most or bottom limit landing to bring the car to stop. A final limit switch shall be incorporated such that the switch automatically cause the power to be

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

removed from the lift driving motor and brake and independent of functioning of normal terminal stopping device, operating device or any emergency terminal stopping device after the car pass a terminal landing.

Guide rails:
Guide rails for car and counter weights shall consist of machined/grounded mild steel T- section with required fixing arrangement. Counter weights shall consist of structural steel frame loaded with appropriated counter weight.

Control Panel:

Control panel shall be designed for trouble free & noiseless operation with maximum efficiency and longer life. It should come with single phase preventer, overload protection and phase reversal protection etc. with suitable VFD drive.

Door locks:

Every landing door shall be fitted with an electric interlock, which prevents the movement of car from landing by cutting off the supply to the control circuit, unless the gate or door is properly closed. The lock shall be fitted near top of the door track in such position that retiring cam collapses releasing the lever arm to remake electric contact and car can then only move from landing to any other floor.

Ropes:
High quality steel ropes suitable for elevator application shall be provided with adjustable self-aligning hitches.

Manual doors for car and landing doors:
Each landing entrance shall be provided with top hung steel collapsible doors fitted with ball bearing roller and shall arranged with a special bottom track made of aluminum or steel.

Standard / conformity : The entire lift shall be designed & manufactured as per latest version of EN-81 standards, EN-81-20, EN 81-50. Permanent Magnet Synchronous (PMS) type gearless motor and 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 Permanent Magnet Synchronous (PMS) type gearless motor, controller and 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 ISO certificate(s) of the manufacturer including lift ride quality measurement ISO 18738/5 shall also have to be submitted by the bidder.

Detailed Specification of Car Lift :

Capacity: _____ Kg

Travel Speed:____ m/sec

Rise: ___ meters

Stops & openings:_____ Stops and _____ openings (Both sides)

Signals: Up - Down direction indicators, position indicators in car and at all floors, battery operated emergency

Operating voltage: 3phase, 440 volts, AC, 50 Hz

Controlling: Microprocessor Controlled, down collective control.

Car size: _____ mm X _____mm, stainless steel cabin with fan LED Panel light, Aluminum checkered flooring,

Shaft Size: _____mm X _____mm

24/8/23

24/8/23

26/4/ মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
২৬.৪.২৩

Clear entrance: 1000mm

Car Door: M.S. Collapsible manual door.

Landing Doors: M.S. Collapsible manual door

Overhead height: 4800mm .

Pit depth: 1600mm

Cabin, Car frame, Safety and Governor:

Structural Steel Car Frame to support the Car platform and enclosure shall be provided with suitable gear fixed underneath the frame. The safety, which is actuated by a speed governor, automatically and compulsorily, bring the car to an immediate stop by clutching the car mechanically between the guide rails in case the car speed exceeds a predetermined limit. A safety switch shall be provided to cut off the control circuit and apply the brakes as soon as safety is activated. The safety will be operated by a centrifugal over speed governor which is located either in machine room or in the hoist way depending on site conditions. Linkage to safeties connected through a continuous steel rope with car frame.

Safety switches:
shall be provided on top of the cage as well as governor base as required to cut off power to the motor before application of the safeties.

Machine:
Single worm traction type located directly above the lift duct. Worm gear with worm wheel of centrifugally cast bronze and worm of specially forged steel both running in bearing to ensure vibration free travel with specially designed high duty lift motor with low starting current and high starting torque.

Limit switches:
Limit switches shall be provided ensuring to act independently of operating device for cutting all the energizing current in case of car travelling beyond the top most or bottom limit landing to bring the car to stop. A final limit switch shall be incorporated such that the switch automatically cause the power to be removed from the lift driving motor and brake and independent of functioning of normal terminal stopping device, operating device or any emergency terminal stopping device after the car pass a terminal landing.

Guide rails:
Guide rails for car and counter weights shall consist of machined/grounded mild steel T- section with required fixing arrangement. Counter weights shall consist of structural steel frame loaded with appropriated counter

Control Panel:
Control panel shall be designed for trouble free & noiseless operation with maximum efficiency and longer life. It should come with single phase preventer, overload protection and phase reversal protection etc. with suitable VFD drive.

Door locks:
Every landing door shall be fitted with an electric interlock, which prevents the movement of car from landing by cutting off the supply to the control circuit, unless the gate or door is properly closed. The lock shall be fitted near top of the door track in such position that retiring cam collapses releasing the lever arm to remake electric contact and car can then only move from landing to any other floor.

Ropes:
High quality steel ropes suitable for elevator application shall be provided with adjustable self-aligning hitches.

Manual doors for car and landing doors:
Each landing entrance shall be provided with top hung steel collapsible doors fitted with ball bearing roller and shall arranged with a special bottom track made of aluminum or steel.

24/08/25

মোহাম্মদ আজিজুল হাকিম
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

26/4/26

Standard / conformity : The entire lift shall be designed & manufactured as per latest version of EN-81 standards, EN-81-20, EN 81-50. Permanent Magnet Synchronous (PMS) type gearless motor and 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 Permanent Magnet Synchronous (PMS) type gearless motor, controller and 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 ISO certificate(s) of the manufacturer including lift ride quality measurement ISO 18738/5 shall also have to be submitted by the bidder.

End of Car/Service/Goods Lift Specification

8.2 Detailed Specification of Escalator

Supply of escalator including motor, control panel, drive unit, drive chain, steps, driving & trailing rollers/ wheels , step chain, hand rail, baluestrade, floor plate, comb plate, cladding made of stainless steel (Steel grade : SUS 304/441) & accessories .

Escalator should be manufactured as per following technical specification and in conformity with EN 115 & ASME A 17.1 code and as per design selection by Engineer in Charge.

a) Environment:	Indoor
b) Control System:	AC VVVF Inverter, Automatic Operation with posts (stationary in stand by), energy saving operation such that escalator slows down when no passenger on it, escalator will be in motion when passenger approaches it.
c) Safety Features:	Stop Buzzer-Key switch, Anti slip floor plate, step with Anti slip groove, Demarcation line, Tiered demar cation line, comb light, Three Horizontal Steps, Warning System on Moving Handrail Inlet (Inlet Sensor), Directional Indication on handrail inlet cap (Handrail Inlet Cap LED Indicator)
d) Additional Safety Devices:	i) Inverter controlled Automatic & Variable speed operations. ii) Emergency stop button(E-Stop) - A button to stop the escalator in emergency situations. iii) Door Opening Switch (DOS) -A safety switch that stops the escalator when the manhole cover is opened. iv) Overload Detection Device (ODD) - A safety device that stops the escalator if overload has been detected by abnormal current or temperature of the drive motor. v) Drive chain safety device (DCS)- A safety device that stops the escalator if the drive chain breaks or stretches beyond an allowable limit. vi) Speed Governor (GOV) - A safety device that stops the escalator if the speed significantly decreases or increases to 120% of rated speed. vii) Electromagnetic Brake - A safety device that stops the escalator in the case of power failure or if any safety device or the emergency stop button has been activated. viii) Step Level Device (SRS) - A safety device that stops the escalator if the horizontal level of a step has dropped. ix) Comb step safety switch (CSS) - A safety device that stops the escalator if a foreign object becomes trapped in the gap between the stop & comb. x) Handrail Guard Safety Device (HSS) - Inlet Guard - A guard made of soft rublos, which fits over the outside of the moving hand rail where it enters the balustrade to keep fingers, hands or foreign objects away from the moving Hand rail opening. xi) Step Motion Safety Device (CRS) - A safety device to stop the escalator when a Step has been dislocated on its riser side due to an object caught between the Steps, or between the Skirt Guard and the Step, or if an abnormality has been observed in the Step motion.

মোহাম্মদ আজাদ হোসেন
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

	xii) Auxiliary brake-A safety device that stops the escalator if the speed exceeds the rated speed or before the Steps , traveling direction changes due to an abnormality such as breakage of the Drive Chain. Operation of emergency brakes every time service brake operates (including operation of power cuts) after a short delay and releases it before starting of escalator xiii) Skirt Guard Safety Device (SSS) - A safety device to stop the escalator if a shoe or other item becomes trapped in the gap between the Step and Skirt Guard. Skirt shall be with anti friction coating & Skirt brush. xiv) Inlet guard switch - a safety device that stops. xv) Handrail drive – Friction wheel type which creates a large contact surface and therefore minimum surface pressure in the handrail. xvi) Roller Track : Prevents wear and tear to the sides of the rollers. xvii) Floor cover contacts should switch off the unit when floor cover is opened xviii) Radar Sensor: when not in use escalator comes to halt to reduce power consumption. Escalators start automatically after recognising person. xix) Band Brake- to minimize braking torque for upward and downward travel for smooth and safe braking
e) Finish and decorative components	**Balustrade** Under-Handrail Lighting Transparent tempered glass panel Stainless steel hairline panel **Skirt Guard** Fluoropolymer Coating Skirt Guard Lighting **Deck Board** Stainless steel hairline **Steps** Aluminum alloy Step Tread Aluminum alloy Cleat Riser Steps shall be of preferably of single piece aerospace die cast & light weight, weight of each step shall be maximum 10-12 Kg, which will sustain break load of minimum 17 KN Yellow Demarcation Line Depth:300 mm; Height:300 mm, **Floor Plate** Decorative Panel (Embossed stainless steel) Comb; comb plate should have 2 direction movement – Lateral & Vertical movement Extension of Floor Plate Connection of adjacent Floor Plates, all floor plates should be interlocked with each other **Moving Handrail** Handrail shall be made of Rubber (Black or other suitable color), it should have handrail brush. LED lights shall be with handrail including Skirt **Handrail Inlet Cap** It should be made of Plastic **Roller** Rollers must be made of hydrolysis resistant poly eurethane tire (running surface) and special rolling-contact bearings **Truss** Truss shall be made of stainless steel (grade : SUS 304/441).
	Direction Arrows
	LED direction arrows to indicate direction for passenger
f) Power Supply	3 phase AC, 50/60 Hz for main and 1phase, 50/60Hz for lighting

g) Motor Power rating	7.5 KW (max.) (for up to 18' floor height) & 9.5 KW (max.)(for 20' floor height)
h) Inclination Angle	30°/35° (rise up to 6000mm) 30° (rise up to 7000mm)
i) Speed	0.5m/sec
j) Passenger handling Capacity	6700 persons/hr for step width 800mm 9000 persons/hr for step width 1000mm

8.2.1 **Type A**

The escalator manufacturing company shall have multi-continental manufacturing plant. Besides, it shall have lift/ escalator manufacturing experience for a period of not less than 30 years in it's particular manufacturing plant where proposed brand of escalator will be manufactured .The proposed brand of escalator shall be manufactured and tested in **USA/ UK / JAPAN / EU Countries**, complying all other detailed specifications and standards stated in the item. .

	Step Width (mm)	Angle	Floor Height (mm) (approx)	Unit Price (Tk) for All Zones
8.2.1.1	800	30°	3050(10')	**1,56,54,194.00**
8.2.1.2			3660(12')	**1,58,35,797.00**
8.2.1.3			4270(14')	**1,63,80,607.00**
8.2.1.4			4880(16')	**1,72,88,623.00**
8.2.1.5			5490(18')	**1,81,96,638.00**
8.2.1.6			6100(20')	**1,91,04,654.00**
8.2.1.7	800	35°	3050(10')	**1,51,27,545.00**
8.2.1.8			3660(12')	**1,53,09,148.00**
8.2.1.9			4270(14')	**1,58,53,957.00**
8.2.1.10			4880(16')	**1,67,61,973.00**
8.2.1.11			5490(18')	**1,76,69,989.00**
8.2.1.12	1000	30°	3050(10')	**1,60,26,480.00**
8.2.1.13			3660(12')	**1,62,08,084.00**
8.2.1.14			4270(14')	**1,67,52,893.00**
8.2.1.15			4880(16')	**1,76,60,909.00**
8.2.1.16			5490(18')	**1,85,68,925.00**
8.2.1.17			6100(20')	**1,94,76,941.00**
8.2.1.18	1000	35°	3050(10')	**1,53,27,308.00**
8.2.1.19			3660(12')	**1,55,08,911.00**
8.2.1.20			4270(14')	**1,60,53,721.00**
8.2.1.21			4880(16')	**1,69,61,737.00**
8.2.1.22			5490(18')	**1,78,69,753.00**

8.2.2 **Type B**

The escalator manufacturing company shall have lift / escalator manufacturing experience in their own factory for a period of not less than 15 years and where the escalator shall be manufactured and tested , complying all other detailed specification/ standard stated in the item.

	Step Width (mm)	Angle	Floor Height (mm) (approx)	Unit Price (Tk) for All Zones
8.2.2.1	800	30°	3050(10')	**68,64,600.00**
8.2.2.2			3660(12')	**82,37,520.00**
8.2.2.3			4270(14')	**98,71,949.00**
8.2.2.4			4880(16')	**1,06,89,163.00**
8.2.2.5			5490(18')	**1,15,06,377.00**
8.2.2.6			6100(20')	**1,23,23,592.00**
8.2.2.7	800	35°	3050(10')	**86,78,816.00**
8.2.2.8			3660(12')	**88,42,259.00**
8.2.2.9			4270(14')	**93,32,587.00**
8.2.2.10			4880(16')	**1,01,49,802.00**
8.2.2.11			5490(18')	**1,09,67,016.00**

8.2.2.12	1000	30°	3050(10')	**93,57,104.00**
8.2.2.13			3660(12')	**95,20,547.00**
8.2.2.14			4270(14')	**1,00,10,875.00**
8.2.2.15			4880(16')	**1,08,28,089.00**
8.2.2.16			5490(18')	**1,16,45,304.00**
8.2.2.17			6100(20')	**1,24,62,518.00**
8.2.2.18	1000	35°	3050(10')	**88,83,119.00**
8.2.2.19			3660(12')	**90,46,562.00**
8.2.2.20			4270(14')	**95,36,891.00**
8.2.2.21			4880(16')	**1,03,54,105.00**
8.2.2.22			5490(18')	**1,11,71,319.00**

TERMS AND CONDITIONS OF LIFT (Part and parcel of tender document)

1 The bidder shall submit the technical proposal of Lift items with sealed & signed by manufacturing company on their Letterhead pad and main catalogue (marked) including mentioning brand, model & country of origin of the proposed lift.

2 The bidder shall submit a certificate issued by manufacturing Company stating the time span of Lift manufacturing experience of the manufacturer. The certificate must be authenticated by chamber of commerce/Ministry of Commerce/Ministry of foreign Affairs of Lift manufacturing Company. The bidder shall submit the detail address of the factory, telephone no., website address, e-mail address and company profile of the lift manufacturing company.

3 The proposed lift manufacturing company shall have it's own testing tower and R&D(Research and development) wing/centre, related document to be submitted with tender.

4 The bidder shall submit a certificate by manufacturing company stating that minimum 1000 Nos. of the proposed brand of lift have been used in minimum 10 (ten) countries of the world including the manufacturing country for equal to or more than ten years. The certificate must be authenticated by Chamber of Commerce/ Ministry of Commerce/ Ministry of Foreign Affairs of the lift manufacturing company.

In the case of lift manufactured in Bangladesh (Type-C) , the abobe mentioned terms & condition is not applicable . Instead , the bidder shall submit a certificate by manufacturing company stating that minimum 100 Nos. of the proposed brand of lift have been used with a detail list specifying locations .

5 EN 81 related certificates (EN 81-20 & EN 81-50, EN-81-77 for all types of lifts, EN 81-72:2015 for firefighter's lift, EN-81-31:2010 for Cargo lift) or its latest edition and Standard test certificates, Certified Test Certificates and Type Test reports (not older than 5 years), ISO certificates for management, occupational health and safety standard certificates, Environmental safety certificates obtained by lift manufacturer shall be submitted by Tenderer.

6 Each bidder must be the Sole agent /Representative / Distributor of the lift brand proposed in the tender and the bidder must submit its all valid supporting documents issued by original manufacturing company. Manufacturer's certificate stating that the bidder has sufficient trained and experienced manpower to install, test and commission the lift as per EN 81-21 code and relevant standard and conformities.

7 The bidder shall have B, C class contractor license provided by the electric licensing board. After completion of the work, the bidder and the manufacturing company shall provide the certification about installation, testing and commissioning of the lift and as built drawing of hoistway and machine room.

8 The bidder shall have one year's experience of maintenance of minimum 20 nos of lift and a detailed list of that experience shall be certified in a prescribed form and attested by the concerned Executive Engineer of PWD .

9 The bidder shall give the assurance from the manufacturing company to supply of spare parts for minimum 20 years and this assurance must be authenticated by the Chamber of Commerce/ Ministry of Commerce/ Ministry of foreign affairs of the concerned manufacturing company.

10 The bidder shall submit a certificate by manufacturing company stating that they manufacture PMS (Permanent Magnet Synchronous) type gearless motor , Polyurethane coated steel belt & Regenerative drive (in required cases) , controller , inverter , motherboard , Door Inverter & all PCBs (Printed Circuit Boards) in their own factory . The certificate must be authenticated by Chamber of Commerce / Ministry of Commerce / Ministry of Foreign Affairs of the Lift Manufacturing Company.

11 The block diagram of the complete lift system including all control system with ACVVVF, power components, Regen drive (in required case) on manufacturer's letterhead pad must be submitted with the contract.

12 The bidder shall submit a work program to complete the Lift supply and installation work and submit a statement that before opening LC, they shall get selection of Lift items from Procuring entity prior to manufacturing.

মোহাম্মদ আজাদ হাওলাদার
সিনিয়র সহকারী সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

13 The successful bidder must submit the detail packing list with sealed and signed by the lift manufacturing company to the concerned Executive Engineer minimum 15 days before shipment and Lift equipment shall be listed packet wise in detail. That packing list must comply the items described in the agreement and as per selection.The manufacturing company must certify that all parts/items are supplied in the packing list. The name of the project and LC no. shall be marked clearly in the packets. Equipment of one contract cannot be packetized together with other equipment/ other contracts.

14 Before shipment, Factory Acceptance Test (performance test of safety devices of lift and Quality assurance tests of the products as per standards) shall have to be carried out by the manufacturer in presence of nominated engineers of PWD at the lift manufacturing factory premises. One engineer will be nominated for one lift. For two lifts in a single tender minimum one engineer will accomplish this inspection and testing.

For more than two lifts in a single tender, the number of nominated engineers will be increased by one per two lifts. All cost related to engineers' travel, food, accommodation, etc. will be borne by awarded organization/Manufacturer. The expenditure for this will be incorporated by the bidder at the time of participation. For special reasons if inspection is not performed by the engineers of the PWD, taking prior approval of the procuring entity quality assurance tests will be carried out by Internationally accepted inspection agencies(home and abroad).

In the case of lift manufactured in Bangladesh (Type-C) and major components like motor, brake, steel ropes, speed governor, controller, inverter, door drive, progressive safety gear, motherboard & all PCBs (Printed Circuit Boards) directly imported from USA/UK/EU/Japan, the above mentioned Factory Acceptance Test (performance test of safety devices of lift and Quality assurance tests of the products as per standards) will be conducted in the factories of major components manufacturers.

15 Post landing inspection for imported lift(s) shall be done by representatives of Procuring Entity according to the packing list and the expenditure for it will be carried out by Contractor /Supplier. After post landing inspection from the port, the imported equipment shall be reached directly to the project site according to the condition of the contract.

16 The bidder shall certify that all given certificates/ documents/ drawings are complete and correct. If any error is found, the contract will be cancelled and the bidder will be disqualified from future participation of any tender.

17 Maintenance engineers of the tenderer must receive service level 1-2-3 certification, employees of them must receive quarterly training

18 Yearly Confirmation of Periodic Safety Inspection (CPSI) must be done on full portfolio of the tenderer organisation and yearly technical clarification audit must be done with mother company/Principal

19 The Tenderer shall submit a certificate/document issued by the competent authority of the Public Works Department (PWD), upon the recommendation of the PWD Schedule of Rates Committee for electromechanical work, stating that the technical specifications and certifications of the proposed brand comply with the requirements mentioned in the PWD Schedule of Rates, Part B: Electro-Mechanical Works.

20 Despite satisfying the above mentioned terms & condition as well as technical specification , a tender shall not be considered as a responsive one if the proposed brand of elevator has a history of poor performance, limited durability, frequent spare part failures, recurring incidents or the local agent has a history of negligence in lift operation and maintenance, including failure to resolve complaints timely and delays in replacing necessary spare parts. This must be officially verified and certified by the competent authority of PWD.

**N.B. Above mentioned 16 T&C alongwith Checklist for time duration for various steps of Lift import & installation, Checklist asking name and address of manufacturer of major parts of proposed Lift must be mapped in e-GP tender process by concerned Procuring Entity

TERMS AND CONDITIONS OF ESCALATOR
(Part and parcel of tender document)

1 The bidder shall submit the technical proposal of Escalator with sealed & signed by manufacturing company on it's Letterhead pad and main catalogue (marked) including mentioning brand, model & country of origin of the proposed escalator.

2 The bidder shall submit a certificate issued by manufacturing Company stating the time span of Escalator manufacturing experience of the manufacturer. The certificate must be authenticated by chamber of commerce/Ministry of Commerce/ Ministry of foreign Affairs of escalator manufacturing Company. The bidder shall submit the detail address of the factory, telephone no., website address, e-mail address and company profile of the escalator manufacturing company.

মোহাম্মদ আজাদ হোসেন
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

3 The proposed escalator manufacturing company shall have their own testing facility and R&D(Research and development) wing/centre, related document to be submitted with tender.

4 The bidder shall submit a certificate by manufacturing company stating that minimum 100 Nos. of the proposed brand of Escalator have been used in minimum 10 (ten) countries of the world including the manufacturing country for equal to or more than ten years. The certificate must be authenticated by Chamber of Commerce/ Ministry of Commerce/ Ministry of Foreign Affairs of the escalator manufacturing company.

5 Latest EN 81 related certificates EN 81-115 or latest code for Escalator and Standard test certificates, Certified Test Certificates and Type Test reports (not older than 5 years), ISO certificates for management, occupational health and safety standard certificates, Environmental safety certificates obtained by escalator manufacturer shall be submitted by Tenderer.

6 Each bidder must be the sole agent/representative / Distributor of the Escalator brand proposed in the tender and the bidder must submit its all valid supporting documents issued by original manufacturing company. Manufacturer's certificate stating that the bidder has sufficient trained and experienced manpower to install, test and commission the EN 81-115 as per related code and relevant standard and conformities.

7 The bidder shall have B, C class contractor license provided by the electric licensing board. After completion of the work, the bidder and the manufacturing company shall provide the certification about installation, testing and commissioning of the Escalator and as built drawing of complete Escalator.

8 The bidder shall provide the assurance from the manufacturing company to supply of spare parts for Escalator for minimum 20 years and this assurance must be authenticated by the Chamber of Commerce/ Ministry of Commerce/ Ministry of foreign affairs of the concerned manufacturing company.

9 The bidder shall submit a certificate by Escalator manufacturing company stating that they manufacture Drive system,Auto-Lubrication System,Braking system,Safety devices, Landing Platforms, Truss, Tracks, Steps, Handrail, Escalator Exterior (Balustrade) in their own factory . The certificate must be authenticated by Chamber of Commerce / Ministry of Commerce / Ministry of Foreign Affairs of the escalator Manufacturing Company.

10 The block diagram of the complete Escalator system including all control system with ACVVVF, power components, on manufacturer's letterhead pad must be submitted with the contract.

11 The bidder shall submit a work program to complete the Escalator supply and installation work and a statement that before opening LC & Procuring entity shall complete selection process of Escalator items prior to manufacturing.

12 The successful bidder must submit the detail packing list with sealed and signed by the Escalator manufacturing company to the concerned Executive Engineer minimum 15 days before shipment and Escalator equipments shall be listed packet wise in detail. That packing list must comply the items described in the agreement and as per selection.The manufacturing company must certify that all parts/items are supplied in the packing list. The name of the project and LC no. shall be marked clearly in the packets. Equipment of one contract cannot be packetized together with other equipment/ other contracts.

13 Before shipment, Factory Acceptance Test (performance test of safety devices of escalator and Quality assurance tests of the products as per standards) shall have to be carried out by the manufacturer in presence of nominated engineers of PWD at the Escalator manufacturing factory premises. One engineer will be nominated for one unit Escalator. For two units Escalators in a single tender minimum one engineer will accomplish this inspection and testing. For more than two units of Escalator in a single tender, the number of nominated engineers will be increased by one per two units of Escalator. All cost related to engineers' travel, food, accommodation, etc. will be borne by awarded organization/Manufacturer. The expenditure for this will be incorporated by the bidder at the time of participation. For special reasons if inspection is not performed by the engineers of the PWD, taking prior approval of the procuring entity quality assurance tests will be carried out by Internationally accepted inspection agencies (home and abroad).

14 Post landing inspection of Escalator(s) shall be done by representatives of Procuring Entity according to the packing list and the expenditure for it will be carried out by Contractor/Supplier. After post landing inspection from the port, the imported equipment shall be reached directly to the project site according to the condition of the contract.

15 The bidder shall submit a valid statement authenticated by concerned Executive Engineer of PWD for successful completion of minimum 20 Units (Staircases) of proposed brand of Escalator have been done in Bangladesh and out of 15 shall be in the list with location, capacity, rise and year of installation.

16 The bidder shall certify that all given certificates/ documents/ drawings are complete and correct. If any error is found, the contract will be cancelled and the bidder will be disqualified from future participation of any contract.

17 Maintenance engineers of the tenderer must receive service level 1-2-3 certification, employees of them must receive quarterly training

মোহাম্মদ আজাদ হোসাইন
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়

18 Yearly Confirmation of Periodic Safety Inspection (CPSI) must be done on full portfolio of the tenderer organisation and yearly technical clarification audit must be done with mother company/Principal.

19 The Tenderer shall submit a certificate/document issued by the competent authority of the Public Works Department (PWD), upon the recommendation of the PWD Schedule of Rates Committee for electromechanical work, stating that the technical specifications and certifications of the proposed brand comply with the requirements mentioned in the PWD Schedule of Rates, Part B: Electro-Mechanical Works.

20 Despite satisfying the above mentioned terms & condition as well as technical specification , a tender shall not be considered as a responsive one if the proposed brand of elevator has a history of poor performance, limited durability, frequent spare part failures, recurring incidents or the local agent has a history of negligence in lift operation and maintenance, including failure to resolve complaints timely and delays in replacing necessary spare parts. This must be officially verified and certified by the competent authority of PWD.

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item No.	Description of Items	Unit	Unit Rate in Tk.			
			Zone A	Zone B	Zone C	Zone D
8.3	**LIFT INSTALLATION**					
	Installation, testing and commissioning of the above lift including supplying of necessary fixing materials, Architrave & transom : Stainless Sheet steel mirror/hairline finish architrave covering the door entrances sides and transom covering the top about 400mm for main entry & Narrow architrave Mirror /Hairline finish 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 A17.1/ 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 viz. 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, Helmets,Gloves, Goggles and all the safety measure as per international safety codes for the workers, supervisors and others during the installation period. (For Passenger/Bed/Panaroma/Fire Fighter's Lift)					

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item No.	Description of Items	Unit	Unit Rate in Tk.			
			Zone A	Zone B	Zone C	Zone D
8.3.1	**For 630 kg. - 1000 kg. capacity**					
8.3.1.1	Upto 3-stop	Job	97,343.00	95,591.00	88,972.00	88,972.00
8.3.1.2	Next per stop (up to 10 stops)	Job	19,531.00	19,180.00	17,852.00	17,852.00
8.3.1.3	Next per stop (11 stops & above)	Job	21,484.00	21,098.00	19,637.00	19,637.00
8.3.2	**For 1250 kg. - 1500/1600kg. capacity**					
8.3.2.1	Upto 3-stop	Job	1,13,902.00	1,11,852.00	1,04,106.00	1,04,106.00
8.3.2.2	Next per stop (up to 10 stops)	Job	19,531.00	19,179.00	17,851.00	17,851.00
8.3.2.3	Next per stop (11 stops & above)	Job	21,484.00	21,097.00	19,636.00	19,636.00
8.3.3	**For 1800 kg. - 2000 kg. capacity**					
8.3.3.1	Upto 3-stop	Job	1,29,206.00	1,26,880.00	1,18,094.00	1,18,094.00
8.3.3.2	Next per stop (up to 10 stops)	Job	19,531.00	19,179.00	17,851.00	17,851.00
8.3.3.3	Next per stop (11 stops & above)	Job	21,484.00	21,097.00	19,636.00	19,636.00
8.3.4	**For 2100kg-2500 kg capacity**					
8.3.4.1	Upto 3-stop	Job	1,42,126.00	1,39,568.00	1,29,904.00	1,29,904.00
8.3.4.2	Next per stop (up to 10 stops)	Job	19,531.00	19,179.00	17,851.00	17,851.00
8.3.4.3	Next per stop (11 stops & above)	Job	21,484.00	21,097.00	19,636.00	19,636.00
8.3.5	**For 3000 kg. - 5000 kg. capacity Car lift**					
8.3.5.1	Upto 3-stop	Job	5,04,439.00	4,95,359.00	4,61,058.00	4,61,058.00
8.3.5.2	Next per stop (up to 10 stops)	Job	1,26,110.00	1,23,840.00	1,15,264.00	1,15,264.00
8.3.5.3	Next per stop (11 stops & above)	Job	1,38,721.00	1,36,224.00	1,26,791.00	1,26,791.00
8.3.6	**For 1600 kg. - 5000 kg. capacity Cargo/**					
8.3.6.1	Upto 3-stop	Job	2,77,442.00	2,72,448.00	2,53,582.00	2,53,582.00
8.3.6.2	Next per stop (up to 10 stops)	Job	50,444.00	49,536.00	46,106.00	46,106.00
8.3.6.3	Next per stop (11 stops & above)	Job	55,488.00	54,490.00	50,716.00	50,716.00

8.4 ESCALATOR INSTALLATION

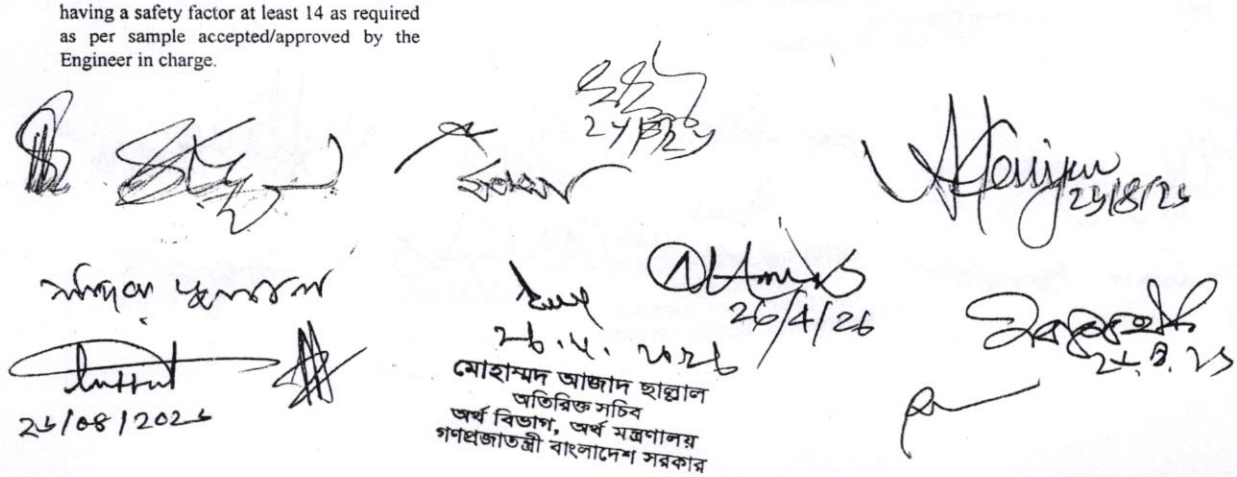
Installation, testing and commissioning of the above escalator unit including supplying of necessary fixing materials, additional works on base foundation (if necessary) for machineries and painting of all parts and initial lubrication shall be carried out as per EN-115/DIN/ VDE/ ANSI /ASME A17.1/ JIS .The supplier / Installer shall carry out 16 hours per day trial run operation for 30 (thirty) days before handing over the Escalator to the competent authority.

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item No.	Description of Items	Unit	Unit Rate in Tk.			
			Zone A	Zone B	Zone C	Zone D
	All electrical and civil works mending good the damages in connection with installation of the Escalator 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 viz. electric motor frames, control panel, other metallic cases, steps, handrail, 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 all the safety measure as per international safety codes for the workers, supervisors and others during the installation period.	Per Unit	56,749.00	55,728.00	51,869.00	51,869.00
8.5	**ARD** **(For replacing the existing used unserviceable ARD only)** Providing & fixing Automatic rescue device set(ARD) of lift set of following specification travel height : 3.5 m to 7.0 m **Drive system** : min 3 times/h and starting time after min 20 sec & max 180 sec that can be set manually **Direction** : up or down which side is heavier Battery: Maintenance free Sealed Gelled / AGM battery or equivalent as per direction of the Engineer-in-Charge.					
8.5.1	Capacity : 630 kg to 800 kg lift	P/Job	2,29,215.00	2,29,215.00	2,29,215.00	2,29,215.00
8.5.2	Capacity : 1000 kg and above	P/Job	3,02,693.00	3,02,693.00	3,02,693.00	3,02,693.00
8.6	**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 stepless continuous voltage 400V ± 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.					

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item No.	Description of Items	Unit	Unit Rate in Tk.			
			Zone A	Zone B	Zone C	Zone D
	Assembled by AEG/ MICRO/ NAVANA/ RAHIMAFROOZ / GREEN POWER/ GIGA POWER/ JUST POWER or equivalent accepted/approved by the Engineer.					
8.6.1	10 KVA AVR	Each	87,205.00	87,205.00	87,205.00	87,205.00
8.6.2	15 KVA AVR	Each	95,687.00	95,687.00	95,687.00	95,687.00
8.6.3	20 KVA AVR	Each	1,11,519.00	1,11,519.00	1,11,519.00	1,11,519.00
8.6.4	30KVA AVR	Each	1,29,929.00	1,29,929.00	1,29,929.00	1,29,929.00
8.6.5	40KVA AVR	Each	1,82,829.00	1,82,829.00	1,82,829.00	1,82,829.00
8.6.6	50KVA AVR	Each	2,36,861.00	2,36,861.00	2,36,861.00	2,36,861.00
8.6.7	60KVA AVR	Each	2,44,652.00	2,44,652.00	2,44,652.00	2,44,652.00
8.6.8	75KVA AVR	Each	3,17,155.00	3,17,155.00	3,17,155.00	3,17,155.00
8.6.9	100KVA AVR	Each	4,70,996.00	4,70,996.00	4,70,996.00	4,70,996.00
8.6.10	150KVA AVR	Each	5,66,174.00	5,66,174.00	5,66,174.00	5,66,174.00
8.6.11	200KVA AVR	Each	6,87,169.00	6,87,169.00	6,87,169.00	6,87,169.00
8.7	**LIFT ACCESSORIES**					
	Counter weight					
	Supply and fixing of counter weight of cast iron as required (local made)	Per kg.	69.00	69.00	69.00	69.00
8.8	**JOIST**					
8.8.1	Providing, fitting & fixing of Joist or support beam between two lift shafts with ncy. materials in/c. fabrication, fittings, fixing, reveting, welding, hoisting by rivets, bolts etc. & painting the same complete. (I-section size 250 mm x 125mm & Shall be 10 mm thick M.S plate) as per sample accepted/approved by the Engineer in charge.	Per meter	4,870.00	4,870.00	4,870.00	4,870.00
8.8.2	Providing, fitting & fixing of Joist or support beam between two lift shafts with ncy. materials in/c. fabrication, fittings, fixing, reveting, 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 charge.	Per meter	7,013.00	7,013.00	7,013.00	7,013.00
8.9	**ARCHITRAVES**					
	Providing, fitting & fixing of wide jam architraves in front of lift door made by smooth stainless steel mirror polished/mirror finished sheet Shall be 1.5 mm thick in/c. fabrication, riveting, the same complete as per sample accepted/approved by the Engineer in charge	P/sqm.	39,273.00	39,273.00	39,273.00	39,273.00
8.10	**MAIN ROPE**					
	Providing & fixing Main Rope shall be of bright steel wires with Ham/ fiber cores having a safety factor at least 14 as required as per sample accepted/approved by the Engineer in charge.					



Item No.	Description of Items	Unit	Unit Rate in Tk.			
			Zone A	Zone B	Zone C	Zone D
8.10.1	Size :6/8 mm dia	P/mtr	218.00	218.00	218.00	218.00
8.10.2	Size : 10 mm dia	P/mtr	298.00	298.00	298.00	298.00
8.10.3	Size : 12 mm dia	P/mtr	385.00	385.00	385.00	385.00
8.11	**LIFT REPAIRING** **Trailing Cable** Labour charge for disconnecting the old/ damaged trailing cables from panel board/ control box/ switching unit/ control unit/door control/ signaling unit/ power supply unit etc. in all floors, machine room and car top including wrapping re-connecting pre-supplied trailing cables with all the controls/ devices in all the floors, machine room and car top with checking, testing, adjusting and leveling all the controls and devices etc for smooth operation of the lift.					
8.11.1	Upto 3 stop lift	Each	15,791.00	15,791.00	15,791.00	15,791.00
8.11.2	Add Tk.2800.00 per lift per stop (after 3 stops)					
8.12	**MONTHLY SERVICING & MAINTENANCE OF LIFT** Monthly servicing and maintenance of lift such as cleaning, checking, trouble shooting, adjusting, balancing, greasing, oiling fixing of spares etc. as described in details by Engineer in Charge required for trouble free operation of lift.					
8.12.1	Upto 3-stop: Per Lift	Per Month	4,554.00	4,554.00	4,554.00	4,554.00
8.12.2	Next per stop (up to 11 stop) : Per Lift	Per Month	414.00	414.00	414.00	414.00
8.12.3	12-stop and above: Per Lift	Per Month	9,922.00	9,922.00	9,922.00	9,922.00
8.13	**MONTHLY OPERATION OF LIFT** Operation of lift as per lift operation manual and direction of the E/Ch by engaging required number of lift operators. (Rate to be determined based on zone and area)					
	For Dhaka Metropolitan Areas	Per Person Per Month	23,505.00			
	For Chattogram, Khulna, Rajshahi,Sylhet, Barishal,Rangpur,Narayanganj and Gazipur City Corporation and Savar Municipality Areas	Per Person Per Month	22,184.00	22,184.00	22,184.00	22,184.00
	Other Areas	Per Person Per Month	21,530.00	21,530.00	21,530.00	21,530.00
	As per circular issued by Finance Division, Ministry of Finance, No-07.153.029.07.00.01.2019-259 Date: 10/06/2019)					

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Annexure-8

Table 8.1

Hoistway & Power Configurations for Passenger Lift According to Various Speed and Capacity										
Persons	Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm)	Hoistway Size (Width x Depth) (mm)	Hoistway Size Overhead Height (mm)	Hoistway Size Pit Head (mm)	Motor Capacity (KW)	Machine Room Dimension (mm)	Maximum Current & [Running current] (Amp)
8	630	1.0	1200x1400	800x2100	1800x1900	4500	1500	4.0	1900x3700	14.8/9.2
		1.5/1.6				4600	1600	6.4		23.7/13.8
		2.0				4850	1800	8.3		30.9/17.1
		2.5				5100	1900	12.3		48.2/28.4
		3.0				5250	2100	14.1		57.3/32.8
		3.5				5400	2200	18.3		71/39
		4.0				5500	2300	24.0		96/52
10	800	1.0	1350x1450	900x2100	2000x2000	4500	1500	5.0	2100x3800	15.7/10.4
		1.5/1.6				4600	1600	8.1		25.8/16.2
		2.0				4850	1800	10.5		34.3/20.5
		2.5				5100	1900	15.0		55.7/34.4
		3.0				5250	2100	17.1		65.8/39.5
		3.5				5400	2200	22.7		86.4/46.3
		4.0				5500	2300	29.5		115.2/63
13	1000	1.0	1500x1600	1000x2100	2200x2300	4500	1500	6.3	2300x4000	20/13
		1.5/1.6				4600	1600	10.2		32.9/20.3
		2.0				4850	1800	13.1		43.7/25.6
		2.5				5100	1900	18.6		68.9/42.4
		3.0				5250	2100	21.2		81.1/48.7
		3.5				5400	2200	27.6		106.4/59.2
		4.0				5500	2300	36.0		135/77.5
16	1250	1.0	1650x1750	1100x2100	2400x2300	4500	1500	8.0	2600x4200	28.7/19.4
		1.5/1.6				4600	1600	13.0		46.8/30.2
		2.0				4850	1800	16.7		61.1/37.7
		2.5				5100	1900	23.8		63.6/40.2
		3.0				5250	2100	27.2		74.4/46.2
		3.5				5400	2200	35.0		123.8/67
		4.0				5500	2300	45.0		158.2/85
21	1600	1.0	1750x2000	1100x2100	2400x2600	4500	1500	10.1	2600x4300	35.5/24.4
		1.5/1.6				4600	1600	16.2		57.9/37.8
		2.0				4850	1800	20.8		75.1/46.9
		2.5				5100	1900	28.9		77.2/49
		3.0				5250	2100	32.9		90.4/56.2
		3.5				5400	2200	42.5		125/72
		4.0				5500	2300	53.0		140/92
24	1800	1.0	1800x2100	1200x2100	2600x2750	4500	1500	11.3	2800x4400	37.6/27.5
		1.5/1.6				4600	1600	18.2		60.7/42.6
		2.0				4850	1800	23.3		77.7/52.8
		2.5				5100	1900	32.0		80/54.6
		3.0				5250	2100	36.4		92.8/62.4
		3.5				5400	2200	47.0		130/76
		4.0				5500	2300	58.0		150/100
26	2000	1.0	1900x2200	1300x2100	2800x2850	4500	1500	12.6	3000x4500	38.9/28.8
		1.5/1.6				4600	1600	20.2		62.7/44.7
		2.0				4850	1800	25.8		81.4/55.9
		2.5				5100	1900	35.2		82.4/56.7
		3.0				5250	2100	44.7		126/70
		3.5				5400	2200	57.0		148/96
		4.0				5500	2300	69.8		200/140
33	2500	1.0	2000x2500	1400x2100	3000x3150	4500	1500	15.7	3400x4600	46.9/35.7
		1.5/1.6				4600	1600	25.3		75.5/55.3
		2.0				4850	1800	32.3		71.8/50.8
		2.5				5100	1900	44.0		98.6/69.8
		3.0				5250	2100	57.0		148/96
		3.5				5400	2200	70.7		205/145
		4.0				5500	2300	86.0		250/165

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Table 8.2

Hoistway & Power Configurations for Bed & Firefighter's Lift According to Various Speed and Capacity

Persons	Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm)	Hoistway Size (Width x Depth) (mm)	Hoistway Size Overhead Height (mm)	Hoistway Size Pit Head (mm)	Motor Capacity (KW)	Machine Room Dimension (mm)	Maximum Current (Amp)
13	1000	1.0	1000x2400	1000x2100	2200x2900	4500	1500	6.3	2900x3850	20
		1.5/1.6				4600	1600	10.2		32.9
		2.0				4850	1800	13.1		43.7
		2.5				5100	1900	18.6		68.9
		3.0				5250	2100	21.2		81.1
		3.5				5400	2200	27.6		87.48
		4.0				5500	2300	36.0		94.77
16	1250	1.0	1250x2300	1100x2100	2400x3000	4500	1500	8.0	3000x4200	28.7
		1.5/1.6				4600	1600	13.0		46.8
		2.0				4850	1800	16.7		61.1
		2.5				5100	1900	23.8		63.6
		3.0				5250	2100	27.2		74.4
		3.5				5400	2200	35.0		90.99
		4.0				5500	2300	45.0		98.2
21	1600	1.0	1500x2350	1200x2100	2600x3000	4500	1500	10.1	3000x4300	35.5
		1.5/1.6				4600	1600	16.2		57.9
		2.0				4850	1800	20.8		75.1
		2.5				5100	1900	28.9		77.2
		3.0				5250	2100	32.9		87.9
		3.5				5400	2200	42.5		97.1
		4.0				5500	2300	53.0		110.43
24	1800	1.0	1600x2400	1300x2100	2800x3000	4500	1500	11.3	3100x4400	37.6
		1.5/1.6				4600	1600	18.2		60.7
		2.0				4850	1800	23.3		77.7
		2.5				5100	1900	32.0		80
		3.0				5250	2100	36.4		92.8
		3.5				5400	2200	47.0		99.9
		4.0				5500	2300	58.0		126.9
26	2000	1.0	1750x2400	1400x2100	3000x3000	4500	1500	12.6	3200x4500	38.9
		1.5/1.6				4600	1600	20.2		62.7
		2.0				4850	1800	25.8		81.4
		2.5				5100	1900	35.2		82.4
		3.0				5250	2100	44.7		98.0
		3.5				5400	2200	57.0		125.0
		4.0				5500	2300	69.8		149.4
33	2500	1.0	2000x2500	1400x2100	3000x3100	4500	1500	15.7	3200x4500	46.9
		1.5/1.6				4600	1600	25.3		75.5
		2.0				4850	1800	32.3		71.8
		2.5				5100	1900	44.0		98.0
		3.0				5250	2100	57.0		126.0
		3.5				5400	2200	70.7		150.3
		4.0				5500	2300	86.0		160.2

মোহাম্মদ আজাদ হাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Table 8.3

Hoistway & Power Configurations for Observation/Panorama Lift According to Various Speed and Capacity (For Rectangular Shaped Car)

Persons	Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm)	Hoistway Size (Width x Depth) (mm)	Hoistway Size Overhead Height (mm)	Hoistway Size Pit Head (mm)	Motor Capacity (KW)	Machine Room Dimension (mm)	Maximum Current & [Running current] (Amp)
8	630	1.0	1150x1400	800x2100	1800x1900	4500	1500	4.0	2000x3500	14.8/9.2
		1.5/1.6				4600	1600	6.4		23.7/13.8
		2.0				4850	1800	8.3		30.9/17.1
		2.5				5100	1900	12.3		48.2/28.4
		3.0				5250	2100	14.1		57.3/32.8
		3.5				5400	2200	18.3		71/39
		4.0				5500	2300	24.0		96/52
10	800	1.0	1250x1600	900x2100	2000x2150	4500	1500	5.0	2200x3700	15.7/10.4
		1.5/1.6				4600	1600	8.1		25.8/16.2
		2.0				4850	1800	10.5		34.3/20.5
		2.5				5100	1900	15.0		55.7/34.4
		3.0				5250	2100	17.1		65.8/39.5
		3.5				5400	2200	22.7		86.4/46.3
		4.0				5500	2300	29.5		115.2/63
13	1000	1.0	1500x1600	1000x2100	2200x2150	4500	1500	6.3	2400x3850	20/13
		1.5/1.6				4600	1600	10.2		32.9/20.3
		2.0				4850	1800	13.1		43.7/25.6
		2.5				5100	1900	18.6		68.9/42.4
		3.0				5250	2100	21.2		81.1/48.7
		3.5				5400	2200	27.6		106.4/59.2
		4.0				5500	2300	36.0		135/77.5
16	1250	1.0	1600x1800	1100x2100	2400x2400	4500	1500	8.0	2700x4200	28.7/19.4
		1.5/1.6				4600	1600	13.0		46.8/30.2
		2.0				4850	1800	16.7		61.1/37.7
		2.5				5100	1900	23.8		63.6/40.2
		3.0				5250	2100	27.2		74.4/46.2
		3.5				5400	2200	35.0		123.8/67
		4.0				5500	2300	45.0		158.2/85
21	1600	1.0	1750x2000	1100x2100	2400x2600	4500	1500	10.1	2900x4300	35.5/24.4
		1.5/1.6				4600	1600	16.2		57.9/37.8
		2.0				4850	1800	20.8		75.1/46.9
		2.5				5100	1900	28.9		77.2/49
		3.0				5250	2100	32.9		90.4/56.2
		3.5				5400	2200	42.5		125/72
		4.0				5500	2300	53.0		140/92
24	1800	1.0	1800x2100	1200x2100	2600x2700	4500	1500	11.3	3100x4400	37.6/27.5
		1.5/1.6				4600	1600	18.2		60.7/42.6
		2.0				4850	1800	23.3		77.7/52.8
		2.5				5100	1900	32.0		80/54.6
		3.0				5250	2100	36.4		92.8/62.4
		3.5				5400	2200	47.0		130/76
		4.0				5500	2300	58.0		150/100
26	2000	1.0	1550x2700	1300x2100	2800x3300	4500	1500	12.6	3300x4500	38.9/28.8
		1.5/1.6				4600	1600	20.2		62.7/44.7
		2.0				4850	1800	25.8		81.4/55.9
		2.5				5100	1900	35.2		82.4/56.7
		3.0				5250	2100	44.7		126/70
		3.5				5400	2200	57.0		148/96
		4.0				5500	2300	69.8		200/140
33	2500	1.0	1850x2700	1400x2100	3000x3300	4500	1500	15.7	3300x4500	46.9/35.7
		1.5/1.6				4600	1600	25.3		75.5/55.3
		2.0				4850	1800	32.3		71.8/50.8
		2.5				5100	1900	44.0		98.6/69.8
		3.0				5250	2100	57.0		148/96
		3.5				5400	2200	70.7		205/145
		4.0				5500	2300	86.0		250/165

মোহাম্মদ আজাদ ছাত্তার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Table 8.4

Hoistway & Power Configurations for Observation/Panorama Lift (Hexa) According to Various Speed and Capacity (For Hexa / Semicircle Shaped Car)

Persons	Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm)	Hoistway Size (Width x Depth) (mm)	Hoistway Size Overhead Height (mm)	Hoistway Size Pit Head (mm)	Motor Capacity (KW)	Machine Room Dimension (mm)	Maximum Current & [Running current] (Amp)
8	630	1.0	1100x1550	800x2100	1800x2100	4500	1500	4.0	2100x3500	14.8/9.2
		1.5/1.6				4600	1600	6.4		23.7/13.8
		2.0				4850	1800	8.3		30.9/17.1
		2.5				5100	1900	12.3		48.2/28.4
		3.0				5250	2100	14.1		57.3/32.8
		3.5				5400	2200	18.3		71/39
		4.0				5500	2300	24.0		96/52
10	800	1.0	1300x1650	900x2100	2000x2200	4500	1500	5.0	2200x3700	15.7/10.4
		1.5/1.6				4600	1600	8.1		25.8/16.2
		2.0				4850	1800	10.5		34.3/20.5
		2.5				5100	1900	15.0		55.7/34.4
		3.0				5250	2100	17.1		65.8/39.5
		3.5				5400	2200	22.7		86.4/46.3
		4.0				5500	2300	29.5		115.2/63
13	1000	1.0	1450x1750	1000x2100	2200x2300	4500	1500	6.3	2400x3850	20/13
		1.5/1.6				4600	1600	10.2		32.9/20.3
		2.0				4850	1800	13.1		43.7/25.6
		2.5				5100	1900	18.6		68.9/42.4
		3.0				5250	2100	21.2		81.1/48.7
		3.5				5400	2200	27.6		106.4/59.2
		4.0				5500	2300	36.0		135/77.5
16	1250	1.0	1500x2050	1100x2100	2400x2600	4500	1500	8.0	2600x4200	28.7/19.4
		1.5/1.6				4600	1600	13.0		46.8/30.2
		2.0				4850	1800	16.7		61.1/37.7
		2.5				5100	1900	23.8		63.6/40.2
		3.0				5250	2100	27.2		74.4/46.2
		3.5				5400	2200	35.0		123.8/67
		4.0				5500	2300	45.0		158.2/85
21	1600	1.0	1700x2250	1100x2100	2400x2850	4500	1500	10.1	2850x4300	35.5/24.4
		1.5/1.6				4600	1600	16.2		57.9/37.8
		2.0				4850	1800	20.8		75.1/46.9
		2.5				5100	1900	28.9		77.2/49
		3.0				5250	2100	32.9		90.4/56.2
		3.5				5400	2200	42.5		125/72
		4.0				5500	2300	53.0		140/92
24	1800	1.0	1900x2250	1200x2100	2600x2900	4500	1500	11.3	2900x4400	37.6/27.5
		1.5/1.6				4600	1600	18.2		60.7/42.6
		2.0				4850	1800	23.3		77.7/52.8
		2.5				5100	1900	32.0		80/54.6
		3.0				5250	2100	36.4		92.8/62.4
		3.5				5400	2200	47.0		130/76
		4.0				5500	2300	58.0		150/100
26	2000	1.0	2000x2350	1300x2100	2800x3000	4500	1500	12.6	3000x4500	38.9/28.8
		1.5/1.6				4600	1600	20.2		62.7/44.7
		2.0				4850	1800	25.8		81.4/55.9
		2.5				5100	1900	35.2		82.4/56.7
		3.0				5250	2100	44.7		126/70
		3.5				5400	2200	57.0		148/96
		4.0				5500	2300	69.8		200/140
33	2500	1.0	2000x2750	1400x2100	3000x3400	4500	1500	15.7	3400x4500	46.9/35.7
		1.5/1.6				4600	1600	25.3		75.5/55.3
		2.0				4850	1800	32.3		71.8/50.8
		2.5				5100	1900	44.0		98.6/69.8
		3.0				5250	2100	57.0		148/96
		3.5				5400	2200	70.7		205/145
		4.0				5500	2300	86.0		250/165

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Table 8.5

Hoistway & Power Configurations for Cargo Lift According to Various Capacity

Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm) Center opening 4 panels	Hoistway Size (Width x Depth) (mm)	Overhead Height (mm)	Pit Head (mm)	Hoistway for Both Side Opening	Machine Room Dimension (mm)	Motor Capacity (KW)
1600	1.0	1700x2100	1700x2200	2600x2600	4800	1600	2600x2650	3600x4000	10.1
2000	1.0	1700x2500	2000x2200	3000x2950	4800	1600	3000x3000	4000x4000	12.6
2500	1.0	2000x2500	2000x2200	3200x3150	4800	1600	3200x3200	4200x4100	15.7
3000	1.0	2000x3000	2000x2200	3400x3450	4800	1600	3400x3500	4400x4300	20.2
3500	1.0	2200x3000	2200x2200	3800x3550	4800	1600	3800x3600	3800x3600	23.3
4000	1.0	2500x3000	2500x2200	4000x3550	4800	1600	4000x3600	4000x3600	25.2
5000	1.0	2500x3600	2500x2200	4050x4150	4800	1600	4050x4200	4000x4200	31.4

Table 8.6

Hoistway & Power Configurations for Car Lift According to Various Capacity

Rated Capacity (Kg)	Rated Speed (m/s)	Net size of Car (Width x Depth) (mm)	Net size of Door (Width x Height) (mm) Center opening 4 panels	Hoistway Size (Width x Depth) (mm)	Overhead Height (mm)	Pit Head (mm)	Hoistway for both side opening	Machine Room Plan Length x Breadth (mm) [(CW+100) x CD+2500]	Motor Capacity (KW)
3000	0.5	2000x3000	2000x2200	2900x3300	4800	1600	2900x3400	3000x5800	10
3500	0.5	2200x3000	2200x2200	3200x3300	4800	1600	3200x3400	3300x5800	12
4000	0.5	2500x3000	2500x2200	3400x3300	4800	1600	3400x3400	3500x5800	13.1
5000	0.5	2500x3600	2500x2200	3400x3900	4800	1600	3400x4000	3500x6500	16.35

(মোঃ আলমগীর খান)
অতিরিক্ত প্রধান প্রকৌশলী (ই/এম পিএন্ডডি)
গণপূর্ত অধিদপ্তর, ঢাকা।

Md. Morshed Iqbal
Executive Engineer (E/M)
PWD E/M Planning Division-2
Dhaka.

মোহাম্মদ আজাদ হাওলাদার
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Table 8.7

Maximum Available Car Area As Per EN 81			
Rated Load Mass Kg	Maximum Available Car Area m^2	Rated Load Mass Kg	Maximum Available Car Area m^2
100	0.37	900	2.20
180	0.58	975	2.35
225	0.70	1000	2.40
300	0.90	1050	2.50
375	1.10	1125	2.65
400	1.17	1200	2.80
450	1.30	1250	2.90
525	1.45	1275	2.95
600	1.60	1350	3.10
630	1.66	1425	3.25
675	1.75	1500	3.40
750	1.90	1600	3.56
800	2.00	2000	4.20
825	2.05	2500	5.00

*Beyond 2500kg add 0.16m^2 for each extra 100 Kg.For intermediate loads the area is determined by linear interpolation.

*Lift speed may be determined according to the traffic analysis

Lift Installation Guideline

1) For all types of lifts except Firefighters lifts , the front wall of the shaft shall be a solid brick wall (Hollow brick is not permitted).

2) For Firefighter lifts, the shaft shall be 2 hours fire rated and preferable made of concrete.

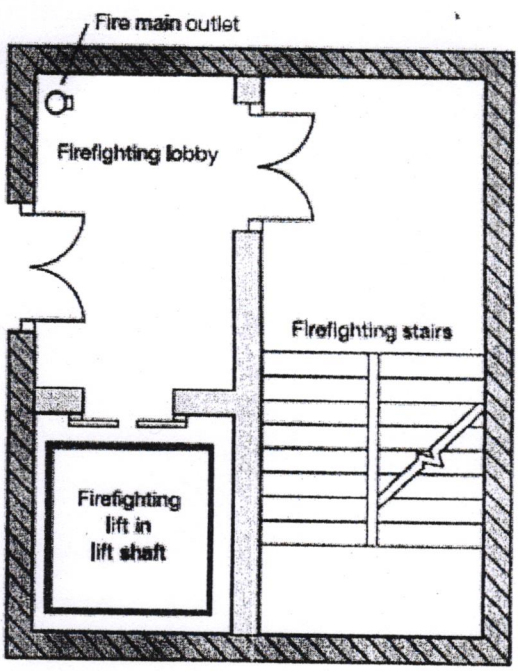
Table 8.8

Lift Brands

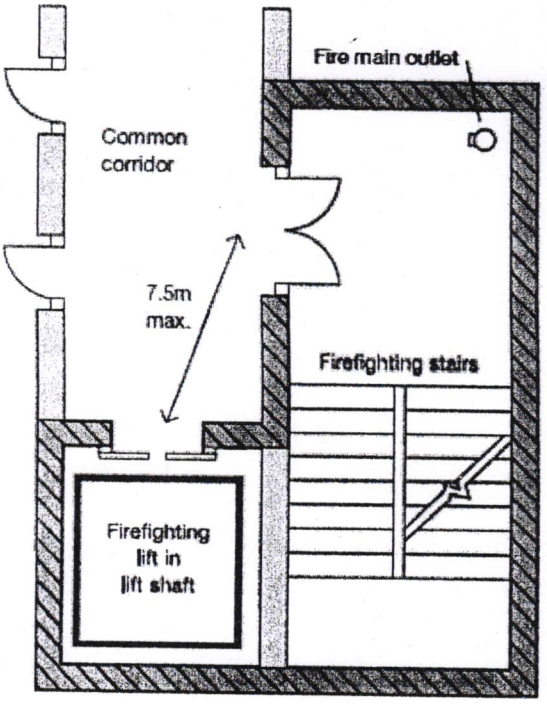
Type of Lift	Brands
A1	KONE (Finland), MITSUBISHI (Japan), OTIS (USA / Japan / France), Schindler (Switzerland), TKE (Germany), FUJITEC (Japan), HITACHI (Japan) or equivalent product.
A2	KONE (China), MITSUBISHI (Thailand/China), OTIS (China/ South Korea), Schindler (China), TKE (China/ South Korea), HITACHI (China), or equivalent product.
B1	Wittur (Germany), Orona (Spain), MacPuarsa (Spain), Movi (Italy) or equivalent product.
B2	SRH(China) / XIZI Unite (China)/ Fuji HD (China) / Mashiba (Malaysia)/ Toshiba (Thailand)/ Nidec (China)/ Sigma (China)/ Schneider (China)/ Auxe (China)/ Japan Sanyo (China)/ Bester (China)/ Schindler (India)/ KONE (India) / Mitsubishi(India)/ OTIS (India) / Hitachi (India) / Fujitec (India)/ TKE (India) or equivalent product.
C	Walton / Property or equivalent product.

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

a. Any building



b. Shafts serving flats



Minimum fire resistance 60 minutes from both sides with 30 minute fire doors

Minimum fire resistance 120 minutes from accommodation side and 60 minutes from inside the shaft with 60 minute fire doors

Notes:

1. Outlets from a fire main should be located in the firefighting lobby or, in the case of a shaft serving flats, in the firefighting stairway (see Diagram b).
2. Smoke control should be provided in accordance with BS 5588-5:2004 or, where the shaft only serves flats, the provisions for smoke control given in paragraph 2.25 may be followed instead.
3. A firefighting lift is required if the building has a floor more than 18m above, or more than 10m below, fire service vehicle access level.
4. This Diagram is only to illustrate the basic components and is not meant to represent the only acceptable layout. The shaft should be constructed generally in accordance with clauses 7 and 8 of BS 5588-5:2004.

মোহাম্মদ শওকত উল্লাহ
উপসচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

26.4.26 26/04/26
Dewan Abdus Sabur
Executive Engineer
LGED, HQ

Dr. KAzam Md. Moniruzzaman
Director (QMED)

26/4/26
Md. Morshed Ejaz
Ex. Eng (E/M)
PWD

কাজী লুতফুল হাসান
উপসচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

26.04.26
Md Atiqullah Bhuiyan
Executive Engineer(CC), RHD
Monitoring Division, Dhaka.

মোহাম্মদ আজাদ ছাল্লাল
অতিরিক্ত সচিব
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

26/4/26
Dr. Sharif Mohammad Moniruzzaman
Prof., Dept. of EEE, BUET