Hindustan Prefab Limited

Thycaud P.O, Trivandrum

Name of Work: Supply ,installation, testing and commisioning of Lift and Escalator at Suburban mall for Supplyco, Piravom, Earnakulam

NIT NO: HPL/DGM (C)/TC/KS/ 2017-18/34 Dated 17.08.2017

BOQ

Sl No	Description of Works	Unit	Qty	Rate	Amount
I	**ESCALATOR**				
1	Supply ,installation, testing and commisioning of Three phase 415 V 50 HZ Frequency, 240 V Lighting voltage, 7.5 KW Motor power Indoor Commercial Escalator with worm gear gear box and speed of 0.50 meter per second ,horizontal span length of 10.589 mtrs and vertical rise of 4.00m with an inclination of 35 degree .				
	The Step width must be 1000mm with painted truss. The balustrade profile with hairline stainless steel with 10mm tempered safety glass panel to a height of 1000mm. the landing plate with etched stainless steel finish and the steps with hairline stainless steel / die cast aluminium. All other facilities and components as per the statutory requirement should be provided like locking device, alarm buzzer, stop button, handrail anti static brush, skirting brush, led combo lighting Supply of booklet with complete details of maintenance schedule and control diagram , Giving training to department staff for attending trouble shooting , Supply of tool kit and Obtaining scheme approval as well as energisation certificate from the Electrical Inspectorate including preparation of necessary drawing for the same. etc., as per the direction of engineer in charge	Each	2.00	3,135,000.00	6,270,000.00

II	**SITC OF LIFTS**				
2	Supply ,installation, testing and commisioning of Three phase 415 V 50 cycles AC 13 passenger Bed Lift elevator (V3f-Gearless Model) with load capacity of 884 Kgs and speed of 1.25 meter per second ,travel length of 21 mtrs on suitable guide rails as per IS with Seven stops and Seven openings for a hoistway of 1900 mm wide x 2200mm deep (finished dimension) and pit depth of 1600mm.The overhead height is 4200mm.				
	The operation shall be simplex full collective with or without attendant machine roomless gearless machine. The car size should be 1200mm wide x1750mm deep x 2200mm high (inside dimension).Car enclosure shall be with fully stain less steel panels with stainless steel mirror finish handrails on three sides,fan light,false ceiling with stain steel finshed and PVC floorings as required.The car entrance and hoist way entrance must be protected by two speed steel doors in Stainless Steel finish ,clear opening about 900mm x 2000mm high.				
	The elevator door operation must be automatic and multiray electronic door detector system .The car should equiped with following signal facility: 1.combined luminous hall button with segment digital hall position indicator at all floors 2.car operating panel with luminous floor buttons 3. Segment digital car position indicator in car 4. Battery operated alarm bell and Battery operated emergency flu: lamp with rechargeable battery (inside the car) 5. Firemans switch 6. Over load warning device .				
	.7.Push buttons for door close & door open (inside the car) 8.3way Intercom 9.Auto / attendant control (inside the car)10.Lift Announcement System. All signal fixtures in stainless steel faceplates.The car shall provided with manual winding wheel for use in case of emergency. The rate should also be inclusive of all accessories for the installation of the lift and all labour charges.				
	ARD				

	Automatic rescue device with an electronic controller and with necessary maintenance free batteries The rescue operation shall act within 10 seconds of power failure				
	Safety Features				
	The elevator shall equiped with the said safety measures.				
	1. Over speed governor				
	2. Safety gear, Buffers				
	3. Motor over speed protection				
	4. Phase reversal protection				
	5. Final limit switches				
	6. Other safeties as per ISS				
	7. Single phase preventor				
	At site tests as per Is 4666/88 to be carried out before handing over.				
	The scope includes Supply of lift materials, erection , Minor civil works including scaffolding , Free-Servicing for 12 months after handing over ,Temporary electric supply for installation of lift, Supply of booklet with complete details of maintenance schedule and control diagram , Giving training to department staff for attending trouble shooting , Supply of tool kit and Obtaining scheme approval as well as energisation certificate from the Electrical Inspectorate including preparation of necessary drawing for the same. Statutory fees incured will be reimbursed.				
	The contractor shall carry out free maintenance during warranty period (12 months) which shall include				
	1.cleaning lift equipment				
	2.Lubricating all required places				
	3.Replacing of Lubricating Oil when required				
	4.Checking and adjusting contacts				
	5.Repacing fusible items, alarm etc				
	6.Recharing/replacing batteries in case of such requirements				
	7.Repalcing/Rewinding motor if required				
	8.Repalcing & Checking Lift Announcement System				
	9.Replacing/renewing all defective part of the lift including V3F unit if found necessary				
	Supply, Installation, testing and Commisioning				
	SITC of Lift				
	Cost of one Lift (13 Passenger)	Each	1.00	2,428,225.00	2,428,225.00
	Total Amount for Additional works				**8,698,225.00**