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DETAILED ESTIMATE

Name of Client :- **UJJAIN DEVELOPMENT AUTHORITY, UJJAIN**
Name of Project :- **DEVELOPMENT OF SIMHASTH MELA OFFICE, UJJAIN**
Name of Work:- **LIFT & ESCALATOR FOR COMMERCIAL & RESIDENTIAL BUILDING**

SNo.	Item No.	Item Name	Description	Nos.			LENGTH	BREADTH	DEPTH/ HEIGHT	Qty.	Unit	Rate	Amount in Rs.
				N1	N2	N3							
1	44.1	Lift/Elevators	Supply, installation, testing, commissioning, and final testing of automatic lift complete in the shaft well and pit already constructed as per CPWD specification including automatic rescue device (ARD), All standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) on turnkey basis, Conforming to NBC/statutory norms and fulfilling following requirements. (i) Type: Passenger lift. (ii) Load: As specified elsewhere from 4 passengers (272Kg) to 26 passengers (1768Kg)										
			(for each person standard weight 68Kg.). (iii) Speed: 1.00 metre/sec. or less as required. (iv) Control: ACV3F, 32bit microprocessor integrated serial communication control system with RMS (remote monitoring system)/BMS (building monitoring system) supporting software. (v) Motor/machine: Permanent magnetic synchronous gearless motor.(vi) Operation: Simplex collective selective with/without lift attendant. (vii) Total rise: About 3 mtrs. (approx) two stops only. (viii) Landings: All floors on same side.										
			(ix) Floors served: G+1. (x) Signals: Digital car position indicator, car travel direction indicator inside car & at all landings, voice annunciator with suitable music shall be provided in the lift car. (xi) Shaft size: As per manufacturer's design and as per CPWD specification (Part III LIFTS), Shaft to be constructed separately. (xii) Guide rail: As per manufacturer's specification. (xiii) Lift & car size: As per manufacturer's design and as per CPWD specification (Part III										
			(xiv) Car entrance: As per manufacturer's design and as per CPWD specification (Part III LIFTS). (xv) Landing entrance: As per manufacturer's design and as per CPWD specification (Part III LIFTS). (xvi) Car door: S.S. (stainless steel) hairline finishcentre/telescopic opening door with vision panel. (xvii) Landing door: S.S. (stainless steel) hairline finish centre/telescopic opening door with vision panel. (xviii) Door operation: Automatic electric power operated door, full height infrared curtain with multiple										

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			(xix) Car interior: S.S. (stainless steel) panel with hair line finish on all sides. (xx) Car floor: Anti skid PVC flooring on heavy duty M S (mild steel) platform. (xxi) Car ceiling & lighting: S. S. (stainless steel) finish with aesthetic appearance with LED ceiling lights (xxii) Carventilation: Pressure fan/blower fan (car fan with automatic sleep timer shall be provided). (xxiii) Emergency lighting in car: Battery operated emergency lighting in the lift car. (xxiv) Intercom system: Battery operated intercom system in lift car, machine room and										
			(xxv) Emergencyalarm: Battery operated alarm bell system in lift car & control room / ground floor. (xxvi) Position of machine room: Directly above the hoist-way. (xxvii) Electric power supply: AC 415 V, 3 phases 50 Hz & AC 230 V 1phase 50Hz terminated in machine room. (xxviii) Fire man switch : Fire man switch at machine room/terminal landing (xxix) All car panel buttons and all floor switches must be with Braille language as per lift act. (xxx) Audio visual indication in the lift car showingoverloading shall be provided such that doors keep open till excess load										
			is removed. (xxxi) Spring buffer/hydraulic buffer shall be provided (xxxi) Spring buffer/hydraulic buffer shall be provided (xxxii) Mechanical over speed governor, door key holes inthe floor doors shall be provided.(xxxiii) Lift machine hoisting arrangement in the lift machine room and monkey ladder for liftpit should beprovided by the lift agency, along with the other steel structure works, foundations for the machines etc. (xxxiv) In the hoist way fascia plate shall be										
			(xxxv) Permanent wiring in lift machine room and lift well with proper no. of light points, with fixtures, exhaust fan, plug points and 3 phase 440V power supply shall be made in lift shaft by the department, machine room or at desired level. (xxxvi) Car top safety barricade shall be provided. (xxxvii) ARD (automatic rescue device): Solid state inbuilt automatic rescue device (ARD) automatically rescues passengers trapped in the lift car in between floors in the event of power failure. Automatic operation and immediate										
			event of mains failure, capable of moving the lift to the nearest landing, opens the automatic door of the lift car and floor. Sealed maintenance free battery backup with automatic charging unit and auto changeover device on mains failure										
	44.1.5	13 Passenger	13 Passenger (884 Kg.)			2					**EACH**	**1710000**	**₹ 34,20,000**
	44.1.7	20 Passenger	20 Passenger (1360Kg.)			4					**EACH**	**2070000**	**₹ 82,80,000**

SNo.	Item No.	Item Name	Description	Nos.			LENGTH	BREADTH	DEPTH/ HEIGHT	Qty.	Unit	Rate	Amount in Rs.
2	44.2		Add extra for higher speed										
	44.2.2	1.5 metre/Sec	For higher speed 1.5 metre/Sec (For 13-26 Passengers)			6					**Each**	**99000**	**₹ 5,94,000**
3	44.3	Add extra for every additional floor	Add extra to item no. 44.1 for every additional floor beyond initial G+ 1 floor (additional stops beyond two stops) provides all necessary additional parts/equipments as per manufacturer's requirement.										
	44.3.1	UPTO 9 FLOOR	Cost for each additional floor : upto 9 stops (For 13-26 Passengers)			4					**Each**	**85500**	**₹ 3,42,000**
	44.4	Add extra for machine room less (MRL)	Add extra to item no. 44.1for machine room less (MRL) lift in place of machine room directly above the hoist way.										
	44.4.1	4-13 Passenger	Extra cost for machine room less (4-13 Passenger)			2					**Each**	**135000**	**₹ 2,70,000**
4	44.9	Toughened glass, on back side only	Add extra to item no. 44.1 for transparent observation toughened glass fixed to the structural steel frame as per manufactures design on back side only in place of S.S. (stainless steel) panels including cost of hold fastening of guide rails to a separately erected civil structure (steel or RCC columns) but excluding cost of civil structure.										
	44.9.2	For 13-26 passenger	For 13-26 passenger			2					**Each**	**117000**	**₹ 2,34,000**
											TOTAL OF SOR ITEM		**₹ 1,31,40,000**
		NON SOR ITEM											
	NON SOR (approved in UDA)	**ESCALATOR**	Supply, installation, testing, commissioning, and final testing of automatic escalator complete. All standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification Conforming to NBC/statutory norms and fulfilling following requirements. **1) floor to floor height is up to 6 mtr & step width is 1000mm**										
			2) Emergency Stop Button (E-STOP) A button to immediately stop the escalator in emergency situations **3) Comb-step Safety Switch (CSS)** A safety device that stops the escalator if a foreign object becomes trapped in the gap between the step and comb. **4) 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. **5) Step Motion Safety Device (CRS)** A safety device to stop the escalator when a step has been dislocated on its riser side because of 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.										

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			6) Step Level Device (SRS) A safety device that stops the escalator if the horizontal level of a step has dropped. **7) Step Chain Safety Device (SCS)** A safety device that stops the escalator if the step chain breaks or stretches beyond an allowable limit. **8) Missing Step Device (SMS)** A safety device that stops the escalator if it detects a missing step(s) before it is visible to passengers. **9) Handrail Speed Safety Device (HSS)** A safety device that stops the escalator if the moving handrails fail to synchronize with the steps because of slippage, loosening or breakage of the moving handrails.										
			10) Drive Chain Safety Device (DCS) A safety device that stops the escalator if the drive chain breaks or stretches beyond an allowable limit. **11) Door Open Switch (DOS)** A safety switch that stops the escalator when the manhole cover is opened..= **12) Speed Governor (GOV)** A safety device that stops the escalator before the operating speed exceeds 120% of the rated speed or if the operation speed becomes unusually slow. **13) 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. **14) 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. **15) Overload Detection Device** A safety device that stops the escalator if overload has been detected. **16) Three Elements (3E)** A safety device that stops the escalator if any of the three abnormal conditions is detected: open phase (wire breakage), phase reversal or overload. **17) Comb light**										
			18) Floor Name **19) Inlet Sensor and Outer Deck sensor** **20) Tiered Demarcation Line** **21) Step Demarcation Lighting**										
			GROUND TO SECOND FLOOR LEVEL	2		2				**4.00**	**EACH**	**₹ 48,42,739.98**	**₹ 1,93,70,960**
										SUB TOTAL OF SOR AND NON SOR ITEM			**₹ 3,25,10,960**
												SAY	**₹ 3,25,11,000**
	TOTAL COST (IN WORDS) - THREE CRORE TWENTY FIVE LACS ELEVEN THOUSAND ONLY												
			ESTIMATE BASED ON :-										
			ELECTRICAL SCHEDUEL OF RATES In Force From January 01, 2024 Issued by :- ENGINEER-IN-CHIEF MP Public Works Department (P.I.U) BHOPAL										

AR. NITIN SHRIMALI	SUB ENGINEER (UDA)	ASSISTENT ENGINEER (UDA)	EXECUTIVE ENGINEER (UDA)	SUPERINTENDENT ENGINEER (UDA)	(ARCHITECT)

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