



उत्तर प्रदेश मेट्रो रेल कॉरपोरेशन लि०

UTTAR PRADESH METRO RAIL CORPORATION LTD.

(Formerly Known as Lucknow Metro Rail Corporation Ltd.)

(भारत सरकार एवं उत्तर प्रदेश सरकार का एक संयुक्त उपक्रम)

(A JOINT VENTURE OF GOVT. OF INDIA & GOVT. OF U.P.)

No. UPMRC/Elect/Elevator/KNPAGE-03

Date: 26.10.2020

To,

All Bidders

Sub: Addendum-1 and reply to Pre-bid Queries to Tender Package KNPAGE-03

Ref: Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I.

Dear Sir,

With reference to the above subject, Addendum-01 and Reply to pre-bid queries of tender KNPAGE-03 is attached herewith.

Thanking You,

Regards,



(Chief Electrical Engineer/Projects-II)

(AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Company)

Administrative Building, Near Dr. Bhimrao Ambedkar Samajik Parivartan Sthal, Vipin Khand, Gomti Nagar, Lucknow-226010

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Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-1 under the Contract KNPAGE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply						
1	Volume 1: KNPAGE-03/NIT	16 to 17	Annexure - 2 & 3A Financial Data.	<p align="center">ANNEXURE-2 Financial DATA</p> <table border="1"> <tr> <td>10</td> <td>Annual turnover (consolidated)</td> <td>from</td> </tr> <tr> <td>11</td> <td>Gross Annual turnover</td> <td></td> </tr> </table>	10	Annual turnover (consolidated)	from	11	Gross Annual turnover		We can provide Annual Turnover of Company as per Balance Sheets. Please confirm same will be considered as Annual Construction Turnover.	Your understanding is correct. Please follow Tender Condition.
10	Annual turnover (consolidated)	from										
11	Gross Annual turnover											
2	Volume 4 : Employer's Requirements - Particular Specification	26	6.2.7	The function of 1000kg/13 passengers (or 2000 kg/26 Passenger) Elevator involves primarily for the movement of passengers including differently able and elderly persons and UPMRC staff. The reliability of the Elevator is therefore of paramount importance.	Required dimension for 26 Passenger lift are as follows i). Shaft size (W x D) in mm : 2800 x 3000 ii). Cabin size (W x D) in mm : 1700 x 2500	Shaft size is already mentioned in BoQ description of 26 passengers. Car size will be dealt during design stage. Please follow Tender Condition						
3	Volume 4 : Employer's Requirements - Particular Specification	27	6.2.8	Elevator car shall have minimum internal dimensions of 1600 mm (Width) X 1400 mm (Depth) for carrying the rated load of 1000 kg/13 passengers. The false ceiling height of the Elevator car shall not be less than 2300 mm. The Elevator and door shall be so configured that it is feasible to handle a person on a wheel chair.								
4	Volume 4 : Employer's Requirements - Particular Specification	27	6.2.11	The approximate headroom of 4450mm and pit depth of 1550mm shall be provided in the shaft for 13 passenger elevator. The Contractor shall submit in their technical packages the requirement in respect of reaction load on the walls and in the pit and other relevant shaft requirements. The Contractor is required to interface with Designated Civil Contractor in respect of the Elevator shaft requirement. The Contractor shall co-ordinate with the Designated Civil Contractors to finalize all the details. The pit depth and overhead dimensions shall be such as to confirm the requirement of bottom and top clearances as per relevant IS.	1) Required dimension for 13 Passenger lift are as follows, i). Pit depth in mm: 1600 (minimum) 2) Required dimension for 26 Passenger lift are as follows, i). Headroom height in mm :4900 (minimum) ii). Pit depth in mm: 1800 (minimum)	Please follow Tender Condition.						
5	Volume 4 : Employer's Requirements - Particular	28	6.2.15 (9)	The above specifications are summarized below:- for 13 passenger lift 9. Pit depth: 1550mm								
6	Volume 4 : Employer's Requirements - Particular Specification	32	6.8.1.(b)	Guide shoes Slipper type guide shoes shall be of milled cast iron or steel frame type or sheet metal with non-metallic renewable liners, of low coefficient of friction and good wear resistance, which require minimal lubrication. A drip tray fabricated from galvanized steel sheet shall be provided.	Both galvanized steel sheet / PVC FR rated can be specified in contract.. Drip tray with PVC works efficiently and drip tray with metal may not collect the oil in guide rail properly. The clause to be modified as below, considering above comments, A drip tray fabricated from galvanized steel sheet / FR PVC shall be provided.	Please follow Tender Condition						
7	Volume 4 : Employer's Requirements - Particular Specification	33	6.8.2	Car Frame A suitable car frame fabricated from galvanized cold rolled steel, bolted, or welded together to form a rigid structure shall be provided. The deflection of the members carrying the platform shall not exceed 1/1000th of their span under static conditions with the rated load uniformly distributed over the platform. It shall be able to withstand the operation of the safety gear or any condition loading without permanent deformation and shall not transfer the load to the enclosure. The safety factor of the frame shall not be less than five (5).	Hot rolled will be better option due to its availability as well as to meet the safety factor. The clause to be modified as below, A suitable car frame fabricated from galvanized cold or Hot rolled steel, bolted or welded together to form a rigid structure shall be provided.	Please Refer Addendum-1						



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
8	Volume 4 : Employer's Requirements - Particular Specification	33	6.8.4.(b)	<p>Car Platform (a) The car platform shall be constructed from spray galvanized cold rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer"</p>	<p>Hot rolled will be better option due to its availability as well as to meet the safety factor. The clause to be modified as below, A suitable car frame fabricated from galvanized cold or Hot rolled steel, bolted, or welded together to form a rigid structure shall be provided.</p>	Please Refer Addendum-1
9	Volume 4 : Employer's Requirements - Particular Specification	38	6.9.3	<p>Door Operators The door lock shall prevent the car doors from being opened by the door operator or by force when the car is moving or is not stopped within the unlocking zone of a landing. Electric interlocks shall be provided to ensure that elevator will not operate, if the car door is not closed and locked. If the car door is forced open, the Elevator shall stop and the alarm activated (even when the Elevator is out of order) until the door is fully closed. The audio visual alarm signal shall be sent to the relevant landing as well as to SCR and CC rooms.</p>	<p>Since a PC based RMS system is used, this audio visual console may not be required. The clause to be modified as below, The door lock shall prevent the car doors from being opened by the door operator or by force when the car is moving or is not stopped within the unlocking zone of a landing. Electric interlocks shall be provided to ensure that elevator will not operate, if the car door is not closed and locked. If the car door is forced open, the Elevator shall stop and the alarm activated (even when the Elevator is out of order) until the door is fully closed. The audio visual alarm signal shall be sent to SCR and CC rooms thru RMS.</p>	Please follow Tender Condition
10	Volume 4 : Employer's Requirements - Particular Specification	49	6.11.3.(d)	<p>Electrical Requirements Maintenance Access Panel (MAP) should preferably be located at Concourse level of station. Maintenance Access Panel (MAP) & Shaft Electrification Panel (SEP) shall be IP55, Piller proof. MAP shall have data down loading facilities for fault diagnostic through RS - 485 port and USB Port. Fault data logging in MAP should have date & Time stamping facilities of 500 events. There should be provision of resettable type counter for the recording no of operation of the Elevators.</p>	<p>Fault downloading normally done from single port. Two ports not required. Fault downloading port can be either RS 485 or USB. Hence the clause to be modified as below, Maintenance Access Panel (MAP) should preferably be located at Concourse level of station. Maintenance Access Panel (MAP) & Shaft Electrification Panel (SEP) shall be IP55, Piller proof. MAP shall have data down loading facilities for fault diagnostic through RS - 485 port or USB Port. Fault data logging in MAP should have date & Time stamping facilities of 500 events. There should be provision of resettable type counter for the recording no of operation of the Elevators.</p>	Please follow Tender Condition
11	Volume 4 : Employer's Requirements - Particular Specification	52	6.21.2	<p>Emergency Operation of Elevators in the Event of Power Failure In the event of power failure or power interruption or single phasing or unbalanced phases (or any problem in the power supply which affect the normal operation of the lifts), the supply to all Elevators shall be automatically switched over to the emergency power supply i.e. To Automatic Rescue Device (ARD) and the Elevators shall be brought to the designated floor and shall park there with the doors remaining open. The speed of lift in ARD mode shall be preferably between 0.2 m/s to 0.3 m/s, subject to review during detailed design stage and prototype testing. In case Power supply to the lift is restored through DG set/ Alternate source before the lift reaches designated floor even then ARD will complete its function and lift doors open at designated floor to evacuate the passenger. Thereafter, Elevator designated by the authorized person may resume operation depending on the capacity of emergency power.</p>	<p>ARD operation is an automatic operation during power failure, lift will automatically resume to normal operation if power is available. Hence the clause to be modified as below, In the event of power failure or power interruption or single phasing or unbalanced phases (or any problem in the power supply which affect the normal operation of the lifts), the supply to all Elevators shall be automatically switched over to the emergency power supply i.e. To Automatic Rescue Device (ARD) and the Elevators shall be brought to the designated floor and shall park there with the doors remaining open. The speed of lift in ARD mode shall be preferably between 0.2 m/s to 0.3 m/s, subject to review during detailed design stage and prototype testing. In case Power supply to the lift is restored through DG set/ Alternate source before the lift reaches designated floor even then ARD will complete its function and lift doors open at designated floor to evacuate the passenger. Thereafter, Elevator should resume normal operation automatically, once power supply is restored.</p>	It will be dealt during design stage. Please follow Tender Conditions



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
12	Volume 4 : Employer's Requirements - Particular Specification	53	6.21.2	Emergency Operation of Elevators in the Event of Power Failure As a back up to ARD, Manual Rescue arrangement shall be provided. Manual Rescue operation shall be possible even when total load of Lift Car with passengers become equal to load of counterweights (i.e. balance load condition). Further, a separate arrangement/ device should be provided to rescue the passenger in any condition (i.e. Load balancing of Lift, Electrical failure in Lift etc.)	During manual rescue lift moves based on the unbalance load available between car & counterweight. In balanced condition there is no unbalance load and there is no inertia. So manual rescue not possible in balanced condition. In balanced condition electrical rescue to be used.	Please follow Tender Condition
13	Volume 4 : Employer's Requirements - Particular Specification	53	6.21.3	Emergency Operation of Elevators in the Event of Fire In the event of fire when any fire detection device is activated, all Elevators shall automatically be brought to the designated floor (Ground Floor in case of Ground to Concourse lift and to Concourse in case of Concourse to Platform Lift or as per requirement of Employer) and shall park there with the doors open for 15-20 seconds and then close. All Elevators shall automatically be rendered inoperative after it has been brought to the designated floor. The essential buttons such as "Door Open", intercom and alarm bell etc. on the car operating panels shall remain functional and illuminated. Normal operation of the elevators shall be manually reset by the operation of a reset key switch.	As per IS 14665 (Part2/Sec1) in clause # 8.3.14.2.4 after sequence of operation (Phase 1), the lift shall park with doors open at evacuation floor. Hence the clause to be modified as follows, In the event of fire when any fire detection devices is activated, all Elevators shall automatically be brought to the designated floor (Ground Floor in case of Ground to concourse lift and Concourse in the lift of Concourse to Platform Lift or as per requirement of Employer) and shall park there with the doors open.	Please follow Tender Condition
14	Volume 4 : Employer's Requirements - Particular Specification	54	6.22.1	Elevator Monitoring and Fault diagnostic system An Elevator monitoring and fault diagnostic system shall be provided for each Elevator by the Elevator Contractor. This system shall provide an auxiliary output port on the controller for plugging the laptop & USB for down loading historical data, the exact requirement of which shall be reviewed at design stage.	An Elevator monitoring and fault diagnostic system shall be provided for each Elevator by the Elevator Contractor. This system shall provide an auxiliary output port on the controller for plugging the Laptop or USB for downloading historical data, the exact requirement of which shall be reviewed at design stage.	Please follow Tender Condition
15	Volume 4 : Employer's Requirements - Particular Specification	55	6.25.1	Corrosion Protection All steel components shall be hot dipped galvanized in accordance with BS 729, with minimum thickness of 85 µm.	In hot dip process, lesser thickness steel sheet got deformed during hot dip process. Normally hot dip galvanization process is applicable only for heavy and thick steel structures. Hence the clause to be modified as below, The following steel components shall be hot dipped galvanized in accordance with BS 729, with minimum thickness of 85 µm. 1) Car Frame; 2) CW Frame; 3) Machine Frame; 4) Guide Rail Brackets; 5) Buffer Supports; Other components shall be Cold Galvanized (Epoxy Zinc Coating)	Please follow Tender Condition
16	Volume 4 : Employer's Requirements - Particular Specification	55	6.25.3	Corrosion Protection All parts constructed in sheet steel shall be either galvanized by the hot dipped process or fabricated from hot dipped galvanized sheet steel.	Based on the suggestion given for clause 6.25.1 and smaller & lighter steels can be spray galvanized. Hence the clause to be modified as below, All parts constructed in sheet steel shall be either galvanized by the hot dipped process or fabricated from hot dipped galvanized sheet steel or spray galvanized.	Please follow Tender Condition



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
17	Volume 4 : Employer's Requirements - Particular Specification	55	6.25.4	Corrosion Protection All hardware, fastenings, screws and shims shall be hot-dipped galvanized. However, all visible screws and fastenings shall be of stainless steel. Epoxy painting will be permitted only on site damage repairs	All hardware, fastenings, screws and shims shall be hot-dipped galvanized / Zinc plated. However, all visible screws and fastenings shall be of stainless steel.	Please follow Tender Condition
18	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.2	Special Cable Requirements All Control cables shall be rated for minimum grade of 650V and all power cables for minimum grade of 1000 V.	Travelling cable specification shall be included and there is a standard available for travelling cable. Hence the clause to be modified as below. All Control cables shall be of Minimum 650 V and all power cables shall be of 1000 V grade. Travelling cable as per standard EN 50214.	Please follow Tender Condition
19	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.3	Special Cable Requirements The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 2.	Equivalent standard also to be considered. Hence the clause can be modified as follows, The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 2 / IS 8130.	Please Refer Addendum-1
20	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.4	Special Cable Requirements The insulation shall consist of an extruded layer of cross-linked polyethylene complying with IEC 502.	Equivalent standard also to be considered. Hence the clause can be modified as below, The insulation shall consist of an extruded layer of cross-linked complying with IEC 502 / IS 7098 Part 1.	Please Refer Addendum-1
21	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.6.(a)	Special Cable Requirements London Transport Executive Three Meter Cube Smoke Emission Test, using optical measuring instruments. The maximum value of absorbance AO (ON), AO (OFF) shall be 0.8 & 1.2 respectively.	IEC 61034/ASTM 2843-2010 internationally recognized standard to be considered for Smoke emission. Hence the clause can be modified suitably as follows, Cables conforming to IEC 61034 / ASTM 2843-2010 can be considered	Please Refer Addendum-1
22	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.6.(b)	Special Cable Requirements The US National Bureau of Standard Smoke Chamber Test, used to evaluate plaque samples of materials of constant thickness (NFPA-258 Smoke Generation of Solid Materials 1982). The maximum specific optical density shall 170 under the non-polluted condition.	IEC 61034/ASTM 2843-2010 internationally recognized standard to be considered for Smoke emission. Hence the clause can be modified suitably as follows, The maximum smoke density value shall be in percent of light absorbance as per IEC 61034-2-2013 and method as per ASTM 2843 - 2010.	Please Refer Addendum-1
23	Volume 4 : Employer's Requirements - Particular Specification	61	6.30.6.(c)	Special Cable Requirements The flame propagating criteria of US IEEE Standard 383, with a minimum test short circuit time of five minutes, in the IEEE Standard 383 test.	Equivalent standard also to be considered. Hence the clause can be modified as follows, The flame propagating criteria of US IEEE Standard 383/IEC 60332 Part-1, with a minimum test short circuit time of five minutes, in the IEC 60332 Part-1/IEEE Standard 383 test	Please Refer Addendum-1



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply																																																																																										
24	Volume 4 : Employer's Particular Specification	66	6.34	<p>TFT Screen</p> <p>The TFT screen should have following specifications:</p> <table border="1"> <tr><td>1</td><td>Screen</td><td>Specification Translucent</td></tr> <tr><td>2</td><td>Matrix Type</td><td>1280x800</td></tr> <tr><td>3</td><td>Operating System(X)</td><td>Android</td></tr> <tr><td>4</td><td>Power Consumption</td><td>15W</td></tr> <tr><td>5</td><td>Resolution</td><td>1280x800</td></tr> <tr><td>6</td><td>Backlight</td><td>LED</td></tr> <tr><td>7</td><td>Gamma</td><td>2.2</td></tr> <tr><td>8</td><td>Viewing Angle</td><td>178°</td></tr> <tr><td>9</td><td>Response Time</td><td>16ms</td></tr> <tr><td>10</td><td>Light Transmittance</td><td>≥85%</td></tr> <tr><td>11</td><td>Contrast Ratio</td><td>1000:1</td></tr> <tr><td>12</td><td>Color Accuracy</td><td>±0.005/0.005/0.005</td></tr> <tr><td>13</td><td>Color Gamut</td><td>≥95% NTSC</td></tr> <tr><td>14</td><td>External Memory</td><td>None</td></tr> <tr><td>15</td><td>Supporting the format</td><td>MP4, AVI, WMV, RMVB, MKV, MOV, FLV, H.264, H.265, H.266</td></tr> <tr><td>16</td><td>Language</td><td>English</td></tr> <tr><td>17</td><td>Language</td><td>English</td></tr> <tr><td>18</td><td>Language</td><td>English</td></tr> <tr><td>19</td><td>Language</td><td>English</td></tr> <tr><td>20</td><td>Language</td><td>English</td></tr> <tr><td>21</td><td>Language</td><td>English</td></tr> <tr><td>22</td><td>Language</td><td>English</td></tr> <tr><td>23</td><td>Language</td><td>English</td></tr> <tr><td>24</td><td>Language</td><td>English</td></tr> <tr><td>25</td><td>Language</td><td>English</td></tr> <tr><td>26</td><td>Language</td><td>English</td></tr> <tr><td>27</td><td>Language</td><td>English</td></tr> <tr><td>28</td><td>Language</td><td>English</td></tr> <tr><td>29</td><td>Language</td><td>English</td></tr> <tr><td>30</td><td>Language</td><td>English</td></tr> </table> <p>The TFT screen should be compatible with all formats of videos including HD quality. It should have features for multiple display on screen at one time i.e. alongwith Videos, Data and time on one side, Instructions at lower part of display etc.</p>	1	Screen	Specification Translucent	2	Matrix Type	1280x800	3	Operating System(X)	Android	4	Power Consumption	15W	5	Resolution	1280x800	6	Backlight	LED	7	Gamma	2.2	8	Viewing Angle	178°	9	Response Time	16ms	10	Light Transmittance	≥85%	11	Contrast Ratio	1000:1	12	Color Accuracy	±0.005/0.005/0.005	13	Color Gamut	≥95% NTSC	14	External Memory	None	15	Supporting the format	MP4, AVI, WMV, RMVB, MKV, MOV, FLV, H.264, H.265, H.266	16	Language	English	17	Language	English	18	Language	English	19	Language	English	20	Language	English	21	Language	English	22	Language	English	23	Language	English	24	Language	English	25	Language	English	26	Language	English	27	Language	English	28	Language	English	29	Language	English	30	Language	English	Kindly clarify numbers and location of this TFT requirement.	Quantities are already referred in Statement 11 of BOQ and Location will be dealt during design stage. Please follow tender condition.
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25	Volume 4 : Employer's Particular Specification	77	8.2	<p>Endorsement Requirement</p> <p>All drawings, calculations, test certificates, technical information, data and analysis submitted in this Contract shall be endorsed by the Contractor's registered Professional Engineer.</p>	Since we have the competency for design, manufacture, installation and maintenance. So this clause is not applicable. Hence remove this clause or modify the clause as below, considering above comments. All drawings, calculations, test certificates, technical information, data and analysis submitted in this Contract shall be endorsed by the Contractor's Professional Engineer.	Please Refer Addendum-1																																																																																										
26	Volume 4 : Employer's Particular Specification	149	Page 149 Volume-4	<p>Part-I: Elevator Contractor Responsibilities: Construction</p> <p>Provide data cable for control from station control room including requirements of BMS and NP-SCADA contractor.</p>	As per clause 8.4 interface with NP-SCADA System - not used. But in interface matrix a cable to BMS and NP-SCADA is mentioned, the same to be removed.	Please provide data cable for control from station control room including requirement of BMS and NP-SCADA contractor.																																																																																										



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
27	Volume 1,KNPAGE-03/NIT	9	1.1.4.2	<p>Specific work Experience</p> <p>Work Experience: "The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work" as given below during last seven years ending 30.06.2020." At least One (1) "Similar Work" of value of Rs 53 Crores or more if the above "Similar Work" of value Rs 53 Crores or more has been done by the foreign partner of JV/ Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner. OR Two (2) "Similar Work" each of value of Rs 33 Crores or more if both the above the "Similar Work" of value Rs 33 Crores or more has been done by the foreign partner of JV/ Consortium, then either at least one of these two work should have been done outside the country of the foreign partner and if not, then in addition to this the foreign partner must have done at least one Similar Work equal to value of Rs 27 Crores or more outside the country of the foreign partner. OR Three (3) "Similar Work" each of value of Rs 27 Crores or more if all the above three Similar Work of Rs 27 Crores or more or two out of three works have been done by foreign partner of JV, then either at least one of these three work should have been done outside the country of the foreign partner</p>	<p>We have Major Experiences in Metro Rail Projects which can meet eligibility criteria of one/three similar works. Even though the works are executed during last 7 years as mentioned in the clause, but the commencement date of the works is slightly (9 Months) before the starting dates of last 7 years period. We request you to kindly clarify if the completion works during last 7 years of similar works will be considered for evaluation irrespective of commencement date of works. Or otherwise we request you to kindly extend the duration to "during last 8 years" from 7 years as mentioned.</p> <p align="right">Please Refer Addendum-1</p>	
28	Volume-1 NIT	8 to 9	1.1.4.2 Minimum Eligibility Criteria: 1. Specific work Experience	<p>Work Experience: "The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work" as given below during last seven years ending 30.06.2020." At least One (1) "Similar Work" of value of Rs 53 Crores or more If the above "Similar Work" of value Rs 53 Crores or more has been done by the foreign partner of JV/ Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner. OR Two (2) "Similar Work" each of value of Rs 33 Crores or more if both the above the "Similar Work" of value Rs 33 Crores or more has been done by the foreign partner of JV/ Consortium, then either at least one of these two work should have been done outside the country of the foreign partner and if not, then in addition to this the foreign partner must have done at least one Similar Work equal to value of Rs 27 Crores or more outside the country of the foreign partner. OR Three (3) "Similar Work" each of value of Rs 27 Crores or more if all the above three Similar Work of Rs 27 Crores or more or two out of three works have been done by foreign partner of JV, then either at least one of these three work should have been done outside the country of the foreign partner.</p>	<p>WORK Experience: "The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work" as given below during last Ten years up to 28 days prior to the bid submission." At least One (1) "Similar Work" of value of Rs 44 Crores or more If the above "Similar Work" of value Rs 44 Crores or more has been done by the foreign partner of JV/ Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner. OR Two (2) "Similar Work" each of value of Rs 30 Crores or more if both the above the "Similar Work" of value Rs 30 Crores or more has been done by the foreign partner of JV/ Consortium, then either at least one of these two work should have been done outside the country of the foreign partner and if not, then in addition to this the foreign partner must have done at least one Similar Work equal to value of Rs 27 Crores or more outside the country of the foreign partner. OR Three (3) "Similar Work" each of value of Rs 25 Crores or more if all the above three Similar Work of Rs 25 Crores or more or two out of three works have been done by foreign partner of JV, then either at least one of these three work should have</p>	<p>Please Refer Addendum-1</p>



Reply to Pre-Bid Queries KNPAE-03

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UPMRC SI no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
29	Volume-1 NIT	8 to 9	1.1.4.2 Minimum Eligibility Criteria: 2. Experience of heavy duty Elevators	Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 years if the sole Tenderer or any/ all members of JV/Consortium constituting the Tenderer is / are from foreign country, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators in India or one country excluding the country of the origin. Similar Elevators implies elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes. OR Tenderer is / are from foreign country, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators in India or one country excluding the country of the origin. Similar Elevators implies elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport, Govt Buildings/Hospitals in India or large commercial complexes/ Shopping malls in India successfully completed during last Ten years.	Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport, Govt Buildings/Hospitals in India or large commercial complexes/ Shopping malls in India successfully completed during last Ten years. If the sole Tenderer or any/ all Members of JV/Consortium constituting the Tenderer is / are from foreign country, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators in India or one country excluding the Country of the origin. Similar Elevators implies elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport, Govt Buildings/Hospitals in India or large commercial complexes/ Shopping malls in India.	shopping malls are included in Commercial complex. Please follow Tender-Condition
30			Additional proposed: 3. Experience of heavy duty Elevators		Individual Tenderer, either from India or outside India should have its own established maintenance facilities in India atleast for the past three (03) years from which maintenance activities should have been carried out in India and should have experience of satisfactory maintenance of Elevators in Airports/ Metro / suburban rail/ commuter rail/ main rail system and had an average annual maintenance portfolio of 50 Nos Elevators during the last Three (03) years with some quantity every year. For this purpose, the Elevators which are under DLP, shall also be considered.	Please follow Tender Condition
31	Volume-1 NIT	10 to 11	1.1.4.2 Minimum Eligibility Criteria: Note.1	Similar Work" for this Tender shall be "Design, Manufacturing, Supply, Installation, Testing and Commissioning of all types of passenger elevators	Explanation to item1 Specific Work Experience: == "Similar Work" for this Tender shall be "Design, Manufacturing, Supply, Installation, Testing and Commissioning of all types of passenger elevators either individually or jointly with other consortium/joint venture member during last Ten years."	Please follow Tender-Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
32	Volume-1 NIT	10 to 11	1.1.4.2 Minimum Eligibility Criteria: Note.2	The tenderer shall submit details of work executed by them, in the Performa of Annexure-1 for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. The offers submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill of materials, bill of exchange and T.D.S. (Tax deducted at Sources) certificates for all payments received and copy of final/ last bill paid by client shall be submitted or completion certificate issued by the customer.	The tenderer shall submit details of work executed by them, in the Performa of Annexure-1 for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. The offers submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill of materials, bill of exchange and T.D.S. (Tax deducted at Sources) certificates for all payments received and copy of final/ last bill paid by client shall be submitted or completion certificate issued by the customer.	Please follow Tender Condition
33	Volume-1 NIT	10 to 11	1.1.4.2 Minimum Eligibility Criteria: Note.3	Value of successfully completed portion of any on-going work up to 30.06.2020 will also be considered for qualification of work experience criteria	Value of successfully completed portion of any on-going work up to 28 days prior to the bid submission will also be considered for qualification of work experience criteria.	Please Refer Addendum-1
34	Volume-1 NIT	10 to 11	1.1.4.2 Minimum Eligibility Criteria: Note.4	For completed works, value of work done shall be updated to 30.06.2020 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR	For completed works, value of work done shall be updated up to 28 days prior to the bid submission price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR.	Please Refer Addendum-1
35	Volume-1 NIT	10 to 11	1.1.4.2 Minimum Eligibility Criteria: Note.5	In case of joint venture / Consortium, full value of the work, if done by the same joint venture shall be considered. However, if the qualifying work(s) were done by them in JV/Consortium having different constituents, then the value of work as per their percentage participation in such JV/Consortium shall be considered	In case of joint venture / Consortium, full value of the work, if done by the same joint venture shall be considered. However, if the qualifying work(s) were done by them in JV/Consortium having different constituents, then the value of work as per their percentage participation in such JV/Consortium shall be considered Or In case of joint venture / Consortium, full value of the work, if done by joint ventures/consortium partner (Indian) having same parent company than shall be considered full value of the work for evaluation for Indian bidders participation as single entity.	Please follow Tender Condition
36	Volume-1 ITT	35	Annexures to ITT ANNEXURE - 7 (As per Clause C18.1)	FORM OF BANK GUARANTEE FOR TENDER SECURITY	Minor changes are always proposed by the Bank inference to RBI instruction in Bank Guarantee formats. Kindly allow minor modification after due discussion.	Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
37	Volume-2		Special Conditions of Contract – Schedules-2 (Refer Sub - Clause 4.2 of GCC)	PERFORMANCE SECURITY	Minor changes are always proposed by the Bank in reference to RBI instruction in Bank Guarantee formats. Kindly allow minor modification after due discussion .	Please follow Tender Condition
38	volume-2		Special Conditions of Contract – Schedules:7	FORM OF BANK GUARANTEE FOR ADVANCE PAYMENTS	Minor changes are always proposed by the Bank in reference to RBI instruction in Bank Guarantee formats. Kindly allow minor modification after due discussion .	Please follow Tender Condition
39	Volume-2		Special Conditions of Contract – Schedule-09	GUARANTEE FOR SAFE CUSTODY	IF Bidder submitted INDENTURE FOR STAGE PAYMENT, do he still have to submit Safe custody Bank Guarantee also. Please clarify. Minor changes are always proposed by the Bank in reference to RBI instruction in Bank Guarantee formats. Kindly allow minor modification after due discussion .	Please follow Tender Condition
40	volume-1 NIT 24		Annexure-6	PROFORMA FOR BANKING REFERENCE FOR LIQUIDITY BANK CERTIFICATE	Please clarify if the Bidder has healthy liquidity much above the required tender value & also has the positive 'Net working capital', is it still mandatory to submit Banking reference from Bank. Also, Indian Schedule bank is reluctant to issue the Banking reference in the prescribed format. Please accept Bank standard format.	In case the Net Working Capital is negative then only Banking reference(s) is required. Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
41	Volume-4	11	Employer's Requirements: Particular Specification 3.5.1	The Contractor shall be fully responsible for obtaining relevant safety certificate or license or any other documents required from statutory authorities for commissioning the regular operation of Machine-room less Elevators. The renewal of the license/safety certificate during DLP will also be the responsibility of the contractor. Fee, if any for obtaining such license/ certificate shall be borne by the contractor.	Tenderer will be responsible for procuring lift license permits/licenses from Lift Inspector/PWD Office, including payment of all necessary official fees for such licenses/ permits. You will provide all requisite assistance to enable tenderer to obtain the permit / licenses and shall execute / provide such documents as may be reasonable requested by Otis in this regard. However, Tenderer will not be liable for any delays in the administrative process of procuring such licenses/ permits.	Please follow Tender Condition
42	Volume-4	28	Employer's Requirements: Particular Specification 6.3.2	Driving motor shall be of the AC synchronous/asynchronous axial type designed for special duty cycles required for Elevator operation with no slip rings. It should have a high starting torque, high power factor, efficiency not less than 85% and low energy consumption. As per IEC 60034-1, Motor should be suitable for Duty Cycle S5 - 60%.	Driving Motor Design is depend upon OEM to OEM and its not direct purchase available item in market. So some OEM is using axial or some using Radial type and both motor will meet the requirement , so requested to add radial option and amend clause and amend the clause as below: Driving motor shall be of the AC synchronous/asynchronous axial/Radial type designed for special duty cycles required for Elevator operation with no slip rings. It should have a high starting torque, high power factor, efficiency not less than 85% and low energy consumption. As per IEC 60034 - 1, Motor should be suitable for Duty Cycle S5 - 60%.	Please follow Tender Condition
43	Volume-4	33	Employer's Requirements: Particular Specification 6.8.3 (a)	Car Enclosure (a) The car enclosure shall be fabricated from galvanized steel of not less than 1.5 mm in thickness or any other material where specified and securely fastened to the car platform and so supported that it cannot be loosened or become displaced in ordinary service or on the application of safety gear or on buffer engagement. The design of the final finishes of the walls, ceiling and floor is subject to the acceptance of the "Engineer".	In Clause 6.8.10 (b) Car Finishes required Scratch Resistant Stainless, but in this clause 6.8.3 (a) mentioned galvanized steel, so requested to amend clause as per below, (a) The car enclosure shall be fabricated from Scratch Resistant Stainless steel of not less than 1.5 mm in thickness or any other material where specified and securely fastened to the car platform and so supported that it cannot be loosened or become displaced in ordinary service or on the application of safety gear or on buffer engagement. The design of the final finishes of the walls, ceiling and floor is subject to the acceptance of the "Engineer".	Please Refer Addendum-1
44	Volume-4	34	Employer's Requirements: Particular Specification 6.8.4	Car Platform (a) The car platform shall be constructed from spray galvanized cold rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer".	Cold rolled steel availability is up to 3.15mm thickness. Hence, we are using sheet thickness more than 3.15 mm to meet the Safety (FOS) of 5 .So requested to amend clause as per below, (a) The car platform shall be constructed from spray galvanized Hot/cold rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer".	Please Refer Addendum-1



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
45	Volume-4	34	Employer's Requirements: Particular Specification 6.8.7 (b)	Ventilation (b) A low speed fan of low noise shall be used. The noise from the fan measured at a distance of 1 meter away within the Elevator car shall not exceed 50 DBA (+5%).	Considering public application, required fan speed to be higher side to avoid suffocation inside the elevator. So requested to amend clause as per below, (b) A low speed fan of low noise shall be used. The noise from the fan measured at a distance of 1 meter away within the Elevator car shall not exceed 55 DBA (+5%).	Please follow Tender Condition
46	Volume-4	37	Employer's Requirements: Particular Specification 6.8.10 (b)	The degree of ingress protection provided by both Car-door and Landing-door to the car and the internal machinery shall be IP-54.	There is no IP protection for car and Landing door. IP protection is applicable for electrical contact in door. So requested to amend clause as per below, The degree of ingress protection provided by both Car-door contact and Landing-door contact and the internal Car door machinery shall be IP-54.	Please follow Tender Condition
47	Volume-4	37	Employer's Requirements: Particular Specification 6.9.1	Car and Landing Doors Heavy duty doors should be of Robust Design to cater to 13.14 Lakhs (Thirteen Lakhs and Fourteen Thousands) operations of Elevators per year. Each elevator shall be provided with horizontal sliding doors complete with door frames and architraves, arranged in centre opening with two panels.	Car and Landing Doors Heavy duty doors should be of Robust Design to cater to 13.14 Lakhs (Thirteen Lakhs and Fourteen Thousands) operations of Elevators per year. Each elevator shall be provided with horizontal sliding doors complete with door frames and architraves, arranged in centre opening with two panels. Engineer will select any door from shipped material at site for verification of 13.14 Lakhs Door operation of the elevator and send back to door manufacturer to start the testing of 13.14 Lakh door operation which is to be witness by the Employer/Representative. If door testing failed then OEM has to replace the all supplied door.	Please follow Tender Condition
48	Volume-4	41	Employer's Requirements: Particular Specification 6.12.1	The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws. This plate should be piler proof. Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix display. There shall also be an arrow in motion vividly and dynamically indicating car movement and direction. It shall also be capable of displaying simple message such as, "Concourse, Platform", "Out of service", "Under maintenance", "This landing is not in Use" etc. The surface of the display unit shall be non-glare type.	Display Technology is upgraded, now days LCD type display is coming and we are providing same so requested to give option of LCD display also and requested to amend clause as per below, The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws. This plate should be piler proof. Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix / 7" LCD display. There shall also be an arrow in motion vividly and dynamically indicating car movement and direction. It shall also be capable of displaying simple message such as, "Concourse, Platform", "Out of service", "Under maintenance", "This landing is not in Use" etc. The surface of the display unit shall be non-glare type.	Please Refer Addendum-1



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
49	Volume-4	47	Employer's Requirements: Particular Specification 6.18.4	The Elevator shall be provided with a floor-leveling device, which shall automatically bring the Elevator car to stop within ± 5 mm of the level of the floor for which a stop has been initiated regardless of the load or direction of travel. In case of ARDmode the car should stop within ± 10 mm of the level of floor, this is subject to the Engineer's Acceptance at the design stage. An automatic re-leveling device shall be provided which returns the Elevator to the floor automatically should the Elevator creep down or move up from floor level for any distance from 6 mm to 50 mm. This device shall be operative at all floors served whether the landing and car doors are opened or closed.	Automatic re-leveling feature available any distance from 10mm to 50mm Request to amend the clause as below: The Elevator shall be provided with a floor-leveling device, which shall automatically bring the Elevator car to stop within ± 5 mm of the level of the floor for which a stop has been initiated regardless of the load or direction of travel. In case of ARDmode the car should stop within ± 10 mm of the level of floor, this is subject to the Engineer's Acceptance at the design stage. An automatic re-leveling device shall be provided which returns the Elevator to the floor automatically should the Elevator creep down or move up from floor level for any distance from 10 mm to 50 mm. This device shall be operative at all floors served whether the landing and car doors are opened or closed.	Please follow Tender Condition
50	Volume-4	47	Employer's Requirements: Particular Specification 6.18.6	An over speed governor shall be provided, which is capable of activating the safety gear in the event of the Elevator exceeding the rated speed. The tripping of the over-speed governor for the safety gear shall occur when the car speed exceeds 140% of the rated speed downwards. A mechanically operated safety switch shall be provided to disconnect the power supply to the motor when the governor is activated. The governor shall be adjusted to operate the safety gear in accordance with the recommended limits set out in IS 14665. The governor rope shall be of steel and shall comply IS: 14665.	As per the IS 14665: Part 4: 4.1.b Values are 115% to 140%. Hence request to amend the clause as below: An over speed governor shall be provided, which is capable of activating the safety gear in the event of the Elevator exceeding the rated speed. The tripping of the over-speed governor for the safety gear shall occur when the car speed exceeds 115%-140 % of the rated speed downwards. A mechanically operated safety switch shall be provided to disconnect the power supply to the motor when the governor is activated. The governor shall be adjusted to operate the safety gear in accordance with the recommended limits set out in IS 14665. The governor rope shall be of steel and shall comply IS: 14665.	Please Refer Addendum-1
51	Volume-4	48	Employer's Requirements: Particular Specification 6.19.1	Each Elevator shall be provided with a main control cubicle to accommodate all electrical switchgear. A caution notice with the wording "Danger-415V/240V A.C. Do Not Remove Cover Unless Incoming Supply is Switched Off" shall be affixed to the cover/ door. The size and shape of the main control cubicle shall be same as that of Maintenance Access Panel (MAP).	Size of the MAP and Main control cubicle are based on the internal architecture of the components. Hence these two cabinet sizes will not be same. Hence, Request to amend the clause as below: Each Elevator shall be provided with a main control cubicle to accommodate all electrical switchgear. A caution notice with the wording "Danger-415V/240V A.C. Do Not Remove Cover Unless Incoming Supply is Switched Off" shall be affixed to the cover/ door.	Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
52	Volume-4	52	Employer's Requirements: Particular Specification 6.25.2	<p>Emergency Operation of Elevators in the Event of Power Failure</p> <p>In the event of power failure or power interruption or single phasing or unbalanced phases (or any problem in the power supply which affect the normal operation of the lifts), the supply to all Elevators shall be automatically switched over to the emergency power supply i.e. To Automatic Rescue Device (ARD) and the Elevators shall be brought to the designated floor and shall park there with the doors remaining open. The speed of lift in ARD mode shall be preferably between 0.2 m/s to 0.3 m/s, subject to review during detailed design stage and prototype testing. In case Power supply to the lift is restored through DG set/ Alternate source before the lift reaches designated floor even then ARD will complete its function and lift doors open at designated floor to evacuate the passenger. Thereafter, Elevator designated by the authorized person may resume operation depending on the capacity of emergency power.</p> <p>As a back up to ARD, Manual Rescue arrangement shall be provided. Manual Rescue operation shall be possible even when total load of Lift Car with passengers become equal to load of counterweights (i.e. balance load condition). Further, a separate arrangement/ device should be provided to rescue the passenger in any condition (i.e. Load balancing of Lift, Electrical failure in Lift etc.)</p>	<p>We recommends - During Emergency operation, Elevators shall be brought to the designated floor and shall park there with the doors remain open for 30 Sec and then closes.</p> <p>The speed of lift in ARD mode shall be preferably 0.1 m/s.</p> <p>Hence request to amend the clause as below:</p> <p>Emergency Operation of Elevators in the Event of Power Failure in the event of power failure or power interruption or single phasing or unbalanced phases (or any problem in the power supply which affect the normal operation of the lifts), the supply to all Elevators shall be automatically switched over to the emergency power supply i.e. To Automatic Rescue Device (ARD) and the Elevators shall be brought to the designated floor and shall park there with the doors remaining open for 30sec and then closes. The speed of lift in ARD mode shall be preferably 0.1 m/s to 0.3 m/s, subject to review during detailed design stage and prototype testing. In case Power supply to the lift is restored through DG set/ Alternate source before the lift reaches designated floor even then ARD will complete its function and lift doors open at designated floor to evacuate the passenger. Thereafter, Elevator designated by the authorized person may resume operation depending on the capacity of emergency power.</p> <p>As a back up to ARD, Manual Rescue arrangement shall be provided. Manual Rescue operation shall be possible even when total load of Lift Car with passengers become equal to load of counterweights (i.e. balance load condition). Further, a separate arrangement/ device should be provided to rescue the passenger in any condition (i.e. Load balancing of Lift, Electrical failure in Lift etc.)</p>	Please follow Tender Condition
53	Volume-4	55	Employer's Requirements: Particular Specification 6.25.1	All steel components shall be hot dipped galvanized in accordance with BS 729, with minimum thickness of 85 µm.	BS729 standard is obsolete & replaced with ISO1461 standard. OTIS ensures galvanizing according to ISO1461 standard.	Please Refer Addendum-1
54	Volume-4	61	Employer's Requirements: Particular Specification 6.30.3	The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 2.	As per industry practice, Class 2 is hard cable, not suitable for elevator installation. Hence request you consider IEC228, Class-5 and amend the clause as below. The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 5.	Please Refer Addendum-1



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
55	Volume-4	161	Appendix "E" Spare Policy for Electrical Contracts	(iii) The Contractor shall generally not be entitled to use any of the Employer's spare parts during the installation, erection and commissioning periods or during the Defects Liability Period.	The Contractor shall generally not be entitled to use any of the Employer's spare parts during the installation, erection and commissioning periods form DLP spare.	Please follow Tender Condition
56	Volume-4	165	Annexure-1	The indicative list of recommended & consumable Spares in Kanpur & Agra MRTS Project is given in following table.	As per our understanding, Bidder is allow to change the spare and Qty. as per their design.	Please follow Tender Condition
57	Volume-4	166	Annexure-2	The indicative list of Unit Exchange Spares in Kanpur & Agra MRTS Project is given in following table.	As per our understanding, Bidder is allow to change the spare and Qty. as per their design.	Please follow Tender Condition
58	Volume-4	167	Annexure-3	The indicative list of DLP Spares in Kanpur & Agra MRTS project is mentioned in following table.	As per our understanding, Bidder is allow to change the spare and Qty. as per their design.	Please follow Tender Condition
59	Volume-2		Special Conditions of Contract – Schedules-3 & 4	PARENT COMPANY UNDERTAKING & PARENT COMPANY GUARANTEE	If single Indian entity is bidding for the project, do he still need to submit PCG & PCU for the project. Please clarify.	Please Refer Addendum-1



Reply to Pre-Bid Queries KNPAGE-03

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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
60	Volume-2	42of 71	GCC Volume-2, cl. 8.5	Liquidated Damages - 0.5% of the contract value per one week delay with an upper limit of generally 10% of the contract value.	Request to link the delay damages to unfinished portion of work and amend the clause accordingly.	Please follow Tender Condition
61	Volume-2	15 of 28	SCC - 23. Sub Clause 10.0	Defect liability period A penalty of Rs.10000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs.	Bidder request to drop the penalty from 10000 to 5000 or increase the hours from 24 to 48 considering the length & different corridors	Please follow Tender Condition
62	Volume 2	18 of 28	SCC- 29. Sub-Clause 11.2.5	Interest in case of delay in repayment of advances	Bidder request to consider the advance as interest free advance as mention in the GCC.	Please follow Tender Condition
63	Volume 2	17 of 28	SCC - 23. 25. Sub Clause 11.1.3	Price Variation Prices quoted by the tenderer shall be fixed throughout the Tenderers performance of the contract and not subject to variation of any account except where specifically mentioned in the contract conditions along with the price variations formula to be made applicable.	Bidder understood that Prices are fixed till the complete period mention in MIT only & Price variation is applicable for the extended period , if project get delayed beyond tender completion period. Hope our understanding is correct.	Please follow Tender Condition
64	Volume-2	16 of 28	SCC- 24. Sub-Clause 11.1.1	Contract Price The contract price, subject to any adjustment thereto in accordance with the contract shall be inclusive of all taxes (except Goods and Services Tax – GST), duties, levies, cess, royalties, etc. and all other incidental charges required to fulfil the tender conditions.	Please clarify about custom duty. Is custom duty to be included in the Contract price or it will also be excluded.	Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
65	Volume-2	21 of 28	SCC - 40. Additional Clause	Retention Money Retention money equal to 10 percent of the amount due to the Contractor from each on account payment will be retained, so as to maintain a reserve in the hands of the Employer equal to 5 percent of the Contract Price	Please allow Bidder to submit Bank Guarantee of 5% of the contract value to avoid any retention deduction	Please follow Tender Condition
66	Volume-1 FOT	6	FORM OF TENDER: APPENDIX-1	Amount of Professional Indemnity Insurance (PII), (for the contracts having Design in scope of work) AOA (any one accident) limit equal to 6% of the contract value against BOQ in respect of „design and construct“ with AOY (any one year) limit of 2 incidents in a year. In the Professional Indemnity Insurance Policy the deductible amount shall not be more than 5% of AOA limit. PII Policy shall be obtained within four weeks from „date of commencement“ and shall be valid for five years after date of issue of „Performance Certificate“.	Bidder request to limit the Professional Indemnity Insurance validity till Performance Certificate instead of Five years after date of Issue of Performance Certificate. It add additional cost Burdon on the project estimate & no insurance agency gives such long period insurance.	Please follow Tender Condition
67	Volume-2	60	GCC Volume -2, cl.14.1	b) loss of, or damage to, or destruction of any property (other than the Works) including consequential loss of use; and	Please delete the "including consequential loss" and amend the clause accordingly.	Please follow Tender Condition
68	Volume-2	62	GCC Volume -2, cl. 14.6	Except as provided otherwise in these Conditions, neither party shall be liable to the other party for loss of use of any Works, loss of profit, loss of any Contract or any other indirect or consequential loss or damage which may be suffered by the other party in connection with the Contract. The total liability of the Contractor to the Employer under the Contract shall not exceed the Contract Price. Except that this Sub-Clause shall not limit the liability of the Contractor: a) under Sub-Clauses 4.18, 4.19 and 14.1 b) under any other provisions of the Contract which expressly impose a greater liability, or c) in cases of fraud, willful misconduct or illegal or unlawful acts, or d) in cases of acts or omissions of the Contractor which are contrary to the most elementary rules of diligence which	Suggestion to set a cap on the exclusion items for better clarity.	Please follow Tender Condition



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause
69	Volume-2	65	GCC Volume -2, cl. 16.1	Force Majeure
70	Volume-1 NIT	Pg-2	1.1.1	Uttar Pradesh Metro Rail Corporation (UPMRC) Ltd., invites open tenders on Local Competitive basis from eligible applicants, who fulfil qualification criteria as stipulated in Clause 1.1.4 of NIT...
71	Volume-1 NIT	Pg-9	1.1.4.2 A.1 Specific work Experience	<p>Work Experience: The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven years ending 30.06.2020:- At least One (1) Similar Work*** of value of Rs 53 Crores or more has been done by the foreign partner or Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner.</p> <p>Work Experience: The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven years ending 30.06.2020:- At least One (1) Similar Work*** of value of Rs 53 Crores or more has been done by the foreign partner or Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner.</p> <p>ii) We have been successfully executing various Similar projects in Consortium with our Group Company which was responsible for Supply and Manufacturing. Hence the credentials for Supply and Manufacturing are also available with our Group Company only.</p> <p>We wish to inform you that, now we have set up 'state of the art' manufacturing facilities in India to support Government's 'Make in India' initiative. We are also supplying to other Metro projects in India from our India Factory. Therefore, in line with Govt MoF DoF order for public procurement (No.1) dated 23.07.2020, we wish to participate in this project as a Sole Bidder and fulfil all obligations under the contract with our own in-house capabilities.</p> <p>Hence we request you to allow us use the credentials of our group company for qualification purpose and allow us to participate as a sole bidder in this tender. As we both are Group Companies and function under the same umbrella of our Parent Company, the product, processes, design and quality parameters will be same.</p>

UPMRC's Reply	Bidder's Clarification
	Request to include epidemic and pandemic words in the definition of Force Majeure and amend the clause accordingly.
Please follow Tender Condition	Kindly confirm whether an Indian Partner can form consortium with a Non-Indian firm complying with Govt MoF DoF order for public procurement (No.1) dated 23.07.2020 for the purpose of qualification. We request you to amend the clause as follows to enable us to participate in this tender:-
Please follow Tender Condition	Work Experience: The tenders will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven years ending 30.06.2020:- At least One (1) Similar Work*** of value of Rs 53 Crores or more has been done by the foreign partner or Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner.
	ii) We have been successfully executing various Similar projects in Consortium with our Group Company which was responsible for Supply and Manufacturing. Hence the credentials for Supply and Manufacturing are also available with our Group Company only.
	We wish to inform you that, now we have set up 'state of the art' manufacturing facilities in India to support Government's 'Make in India' initiative. We are also supplying to other Metro projects in India from our India Factory. Therefore, in line with Govt MoF DoF order for public procurement (No.1) dated 23.07.2020, we wish to participate in this project as a Sole Bidder and fulfil all obligations under the contract with our own in-house capabilities.
	Hence we request you to allow us use the credentials of our group company for qualification purpose and allow us to participate as a sole bidder in this tender. As we both are Group Companies and function under the same umbrella of our Parent Company, the product, processes, design and quality parameters will be same.



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
72	Volume-1 NIT	Pg-10	1.1.4.2 A.2 Experience of heavy duty Elevators	Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 years. OR If the sole Tenderer or any/all members of JV/Consortium constituting the Tenderer is / are from foreign country, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators in India or one country excluding the country of the origin. Similar Elevators implies elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes.	i) We have been successfully executing various similar projects in Consortium with our Group Company which was responsible for Supply and Manufacturing. Hence the credentials for Supply and Manufacturing are also available with our Group Company only. We wish to inform you that, now we have set up 'state of the art' manufacturing facilities in India to support Government's 'Make in India' initiative. We are also supplying to other Metro projects in India from our India Factory. Therefore, in line with GoI MoF DoE order for public procurement (No.1) dated 23.07.2020, we wish to participate in this project as a Sole Bidder and fulfill all obligations under the contract with our own in-house capabilities. Hence we request you to allow us the credentials of our group company for qualification purpose and allow us to participate as a sole bidder in this tender. As we both are Group Companies and function under the same umbrella of our Parent Company, the product, processes, design and quality parameters will exactly be the same while supplying from India.	Please Refer Addendum-1
73	CHAPTER 4 DESIGN AND PERFORMANCE REQUIREMENTS	14	4.2.2	Isoceraunic level: Average 30 thunderstorm days per year as per IS 2309:1989.	Surge protection device are generally provided by builder. Hence, request to put this requirement into builder's scope and remove this scope from elevator contractor. Please confirm.	Please follow Tender Condition
74	CHAPTER 4 DESIGN AND PERFORMANCE REQUIREMENTS	14	4.3.1.(d)	The design philosophy should meet the following criteria: (iii) Design life 30 years, (ix) High reliability and ensure Zero passenger trapping	Bidder recommends to have specification similar to that mentioned under clause 6.2.3 of 20 years which is as per normal standard in all infrastructure MRTS tenders. Please confirm.	Please follow Tender Condition
75	CHAPTER 4 DESIGN AND PERFORMANCE REQUIREMENTS	16	4.8.1	The Contractor shall provide built-in diagnostics and remote monitoring functions for each microprocessor-based equipment and module of the systems such that the performance requirements can be demonstrated.	Bidder requests to consider RS-232 Port for data downloading through OEM system and protocol.	Please follow Tender Condition
76	CHAPTER 4 DESIGN AND PERFORMANCE REQUIREMENTS	16	4.10.1	The installation shall meet the fire safety requirements generally as per NFPA-130.	NFPA-130 is not related to Elevators, this is applicable for Metro Trains. Hence Bidder requests to remove this clause from Elevator requirements.	Please follow Tender Condition
77	CHAPTER 4 DESIGN AND PERFORMANCE REQUIREMENTS	16	4.10.1	The design of the earthing system shall conform to IS 3043 : 1987	Bidder complies with EN 81-1 and IS 14665 norms. Please consider the conformity to EN 81-1 & IS 16445 norms for this requirement.	Please follow Tender Condition
78	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	18	4.17	Codes and Regulations- Complete Clause.	Bidder requests that EN 81-1 and IS 14665 norms for complete elevator design and safety requirement are considered for this clause in the tender which is standard practice.	Please follow Tender Condition



Reply to Pre-Bid Queries KNPAGE-03				
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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause
79	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	25	6.2.5.b.(iv)	Availability \geq 99.9 %
80	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	27	6.2.12	The leveling accuracy shall be within \pm 5 mm of the finished floor level.
81	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	27	6.2.14.(f)	The problem of man-trap and safety related requirements are completely addressed and the software enables the doors to open in all type of faulty situation.
82	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	28	6.3.1	The construction of all Elevator machines shall conform with IS-14665 and BS 5655:Part1
83	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	28	6.3.2.(a)	Driving motor shall be of the AC synchronous/asynchronous axial type designed for special duty cycles required for Elevator operation with no slip rings.
84	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	28	6.3.2.(a)	As per IEC 60034 - 1, Motor should be suitable for Duty Cycle S5 - 60%.

UPMRC's Reply

Bidder's Clarification

Bidder requests consideration of availability parameter as 99 % as 99.9% is too stringent and difficult to achieve in practical scenarios of heavy usage.

Bidder requests to consider Levelling Accuracy as \pm 5 mm.

As per IS and EN codes it's not recommended to put elevator into normal operation, if any of the safety contact of safety chain is broken, as this is against passenger safety. Hence bidder requests to remove this particular clause from the tender.

Please note IS-15785 norms is for INSTALLATION AND MAINTENANCE OF LIFT. Bidder complies with IS-14665 and EN81-1 for the construction scope of elevator machines. Hence, kindly consider this in tender requirement.

Bidder complies with a Radial Synchronous machine with steel coated belt. This is more advanced technology which consumes less power. Moreover, axial or radial machine does not influence the lift performance as long as it has highly efficiency and fits the MRL shaft. Hence, bidder requests to remove the axial type machine clause from the tender.

Bidder complies with Duty cycle of 50% which as per IEC standard. Please consider the same in tender.



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
85	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	28	6.3.2.(c)	The maximum temperature rise of the winding shall not exceed 50 °C above ambient temperature when operated under normal condition.	Bidder requests to consider temperature rise up to 65 degree above ambient temperature, instead of 50 degree since our elevators have class F insulation.	Please follow Tender Condition
86	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	29	6.3.3.(g)	The Elevator machine shall be fitted with a manual emergency device capable of having the brake released by hand. Manually operated/ Battery operated and requiring a constant effort to keep the brake open. The manual emergency device shall be handle operated. The handle should be robust and able to bear the human intervention. The termination of brake cable at handle of manual emergency device should be double securing and fall safe.	As per IS 14665, if the effort required to release the brake is >400N, then electrical brake release to be provided. We are complying to IS standard. Hence, bidder recommends only battery operated pulse electric brake release device instead of manual mechanical brake release device. Bidder requests this to be considered in the tender. Please confirm.	Please follow Tender Condition
87	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	30	6.4.1	At least three (3) steel wire ropes or coated steel belts specially manufactured for Elevator use shall be employed for the suspension of Elevator car and counterweight.	Bidder's Elevator system works with coated steel belt and we shall provide minimum two coated steel belt meeting the IS 15785 with min. factor of safety 12. Hence Bidder requests to add coated steel belt min. 2 in the tender.	Please follow Tender Condition
88	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	31	6.5.1	The counterweights shall be made of cast iron/ wrought iron/ steel and shall be appropriately secured and housed. They shall be of uniform density and physical dimensions.	Bidder requests to consider mix filler weight option as an alternate. Please confirm.	Please follow Tender Condition
89	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	32	6.7.3	The guide rail brackets shall be hot-dipped galvanized.	Bidder requests to consider powder coating as an alternative. Please confirm.	Please follow Tender Condition
90	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS – MACHINE-ROOM LESS ELEVATORS	32	6.8.1.(b)	A drip tray fabricated from galvanized steel sheet shall be provided.	Bidder requests to consider plastic drip tray as an alternate option.	Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
91	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	33	6.8.2	A suitable car frame fabricated from galvanized cold rolled steel, bolted, or welded together to form a rigid structure shall be provided.	Bidder requests to consider powder coating as an alternative.	Please follow Tender Condition
92	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	34	6.8.4.(a)	The car platform shall be constructed from spray galvanized cold rolled steel with steel flooring	The base steel material will be either cold rolled or hot rolled steel. Bidder requests to consider powder coating as an alternative to galvanization.	Please Refer Addendum-1
93	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	34	6.8.5	The car roof shall be suitably constructed with galvanized sheet steel and reinforced to permit the maintenance and inspection of the Elevator shaft equipment to be carried out by maintenance personnel standing on the car roof.	Bidder requests to consider powder coating as an alternative to galvanization.	Please follow Tender Condition
94	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	34	6.8.6	The toe guard for elevators shall be made of galvanized sheet steel of not less than 1.5 mm thick	Bidder requests to consider thickness of Galvanized sheet steel as 1.2 mm.	Please follow Tender Condition
95	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	34	6.8.7.(a)	Each Elevator car shall be adequately ventilated using Cross Flow Fans to achieve minimum standard of 20 air changes per hour.	Bidder requests to consider the Standard blower fan which meets air exchange requirement of 15 air changes per hour instead of 20 air changes per hour.	Please follow Tender Condition
96	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	35	6.8.9	The car junction box with IP Class S5 protection, for the traveling cables and car enclosure wiring shall be installed at the car top.	Bidder requests to consider car junction box with IP Class S5 protection.	Please follow Tender Condition
97	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	35	6.8.10.(a),i	Architrave (Fascia/Jamb) - Scratch Resistant Stainless steel/ Stone work. The fascia of minimum 300 mm width on every landing or as per site condition for fixing the Landing Plate, Indicators, and MAP etc. shall be of Scratch Resistant Stainless steel/ Stone work and shall be in scope of elevator Contractor.	Bidder requests to mention the thickness of Architrave. Bidder requests to consider 1.2 mm thick Scratch resistant stainless steel/ Stainless steel scratch resistant finish.	Please follow Tender Condition



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UPMRC S/No.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
98	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	35	6.8.10.(b).2	Side Panels (i) Scratch Resistant Stainless steel for Steel door elevators (ii)-Framed transparent glasses (Frames Scratch Resistant Stainless steel) for glass door elevators Including the COP (Car Operating Panel)	Please consider COP fixation on front wall in case of Glass Elevator. Since fixation of COP is not feasible on Side Panel.	Please follow Tender Condition
99	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	36	6.8.10.(b).3.(iv)	The fire rating of the Car door shall be complying with the requirement as per National Building code.	As per latest NBC 2009, fire rating of car door is not required. Hence, Bidder requests to remove this requirement from the tender.	Please follow Tender Condition
100	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	37	6.8.10.(b).3.(viii)	The degree of ingress protection provided by both Car-door and Landing-door to the car and the internal machinery shall be IP-54.	Bidder understands that customer would like to have car door and landing door contact with IP 54 protection class. Request to confirm our understanding.	Please follow Tender Condition
101	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	38	6.9.3	If the car door is forced open, the Elevator shall stop and the alarm activated (even when the Elevator is out of order) until the door is fully closed.	Bidder is providing car door lock option which ensures that car door can not be opened by hand from car inside. Hence bidder requests to remove this specification requirement from the tender.	Please follow Tender Condition.
102	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	39	6.9.4.1	If the doors are prevented from closing by the pressing of hall and/or car buttons or a person in their path for an adjustable pre-set time, the safety devices, except the mechanical door safety edge, shall be rendered inoperative to cause door reversals. The doors shall proceed to close at a reduced speed and a buzzer located on the car shall sound before and during the closing.	Bidder is providing mechanical safety edge and photo cell solution, only with SS car door option, since this solution is not feasible with glass car door option. Bidder requests confirmation that this is acceptable.	Please follow Tender Condition.
103	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	39	6.9.4.2	Photo Cells Two Photo cells shall be provided for each car door for preventing door closing when a passenger is entering or leaving the car. This should act as a backup protection to 3D-infrared curtain.	Bidder is providing mechanical safety edge and photo cell solution, only with SS car door option, since this solution is not feasible with glass car door option. Bidder requests confirmation that this is acceptable.	Please follow Tender Condition.
104	VOLUME 7 (Bill of Quantity Pricing Document)	36	6.8.10.(b).3	Glass shall be provided with reflective film in place of mirror up to half height to facilitate reversal of wheel chair. (Note:- Adjustment price as per 11(vi) of BOQ shall be applicable)	Bidder requests clarity on the type, specification, thickness of reflective film required on with Glass Rear/Back Panel.	It will be dealt during design stage. Please follow Tender Condition



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UPMRC Sl.No.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
105	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	40	6.11.3.(b)	A red "Car-Overload" indicating lamp with buzzer in both Hindi and English Language	Bidder can provide standard design for COP with "Car Overload" message in Red Flickering fonts with 5x7 dot matrix display along with voice announcement with text in English only. Bidder requests to consider the same in tender.	Please follow Tender Condition.
106	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	40	6.11.3.(c)	Two vertical rows (where appropriate) of car minimum dimension of 50 mm X 50 mm on the call buttons for floor designations, bearing, numerals/ alphabets and Braille code next to each button for visually handicapped.	Bidder is providing braille code on each button for visually handicapped. Please confirm if this is acceptable.	Please follow Tender Condition.
107	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	40	6.11.3.(f)	An intercom button connected with EPABX (self-illuminated feedback type), when pressed, shall allow direct communication with the personnel in the SCR / CC room, and main control cubicle EPABX shall be designed to take simultaneous calls from all Lifts of a particular station. The contractor shall submit their features and proven vendor of intercom to Employer for review and approval.	Bidder is providing alarm button to trigger the alarm system and parallelly to trigger inter communication system between car and the SCR room. Hence, bidder requests not to consider separate intercom button for the same.	Please follow Tender Condition.
108	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	40	6.16.1.(h)	Door Profile- To avoid the sticking of fingers in between Car frame and Car door, profile shall be provided & the gap after provision of profile if any shall not be more than 5 mm.	As per EN 81-1, the door profile option is only required when the gap between car front wall and car door panel exceeds 6 mm. Hence, bidder requests to consider this option, only when gap is more than 6 mm.	Please follow Tender Condition.
109	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	40	6.16.1.(f)	An intercom button connected with EPABX (self-illuminated feedback type), when pressed, shall allow direct communication with the personnel in the SCR / CC room, and main control cubicle EPABX shall be designed to take simultaneous calls from all Lifts of a particular station. The contractor shall submit their features and proven vendor of intercom to Employer for review and approval.	Bidder requests to mention the scope of EPABX. It should be in customer's scope.	Please follow Tender Condition.
110	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	41	6.12.1	Big Size Car Position Indicator:- The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws.	Bidder requests to consider faceplate thickness of car position indicator as 2mm.	Please follow Tender Condition.



Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03

UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
111	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	42	6.16.1.(b)	Door Frames shall be of at least 1.5 mm thick scratch resistant stainless steel in hairline finishes and shall comprise head and jamb sections of the same material.	Bidder requests to confirm which finish is required :- scratch resistant stainless steel OR stainless steel hairline finish for Door frame.	Please follow Tender Condition.
112	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	44	6.16.2	Hall Call Buttons:- The faceplate shall be made of stainless steel grade 304 hairline finishes. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have two minimum Sunken Screws. This plate should be Piller proof. The Jumbo type hall call buttons shall be micro-push type, suitable for heavy duty and vandal proof. The response light of the call buttons shall be orange or red, when illuminated. When an Elevator arrives at the hall, the illumination shall cease.	Bidder requests to consider faceplate thickness of Hall Call Buttons as 2mm.	Please follow Tender Condition.
113	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	45	6.17.5	Next Landing The car shall automatically proceed to the nearest floor with a functioning landing door: if the car doors fail to open at the designated floor.	if the car door fails to open the controller goes in safe lock mode, this is required as per EN81-20/50. This next landing will be in violation of EN81 code. So we recommend not to put this clause as it is against passenger safety. Bidder requests to remove the same from the tender.	It will be dealt during design stage. Please follow Tender Condition
114	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	48	6.18.6	An over speed governor shall be provided to the Counter weight in case of Hanging pit. The Contractor is required to interface to the designated Contractor for the requirement of hanging pits.	Bidder requests confirmation that all 150 elevators as part of main BOQ should be considered without Floating Pit or Hanging Pit and that Hanging pit is only part of Adjustment Price requirement.	Please follow Tender Condition.
115	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	48	6.19.2	The Elevators shall be designed to operate on a 415V±10% a.c. 3 phase, 4 wire, 240V±10% a.c. 50Hz single phase power supply. Power supplies armoured cables up to elevator's main control cubicle, and routing done up to the entry point in the elevator's shaft shall be supplied by the Designated Contractors. The Contractor shall coordinate with the respective Contractors to incorporate their requirements. Main switch/MCB Box with ELCB etc. in unpaid area should be in lockable enclosure and in scope of elevator contractor. MCB box shall be IP-54. All ELCB's, MCBs & Switches should be as per Employer approved vendors.	Bidder understands that, this will be in electrical contractor's scope. Please confirm on our understanding.	Please follow Tender Condition.
116	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	49	6.19.7	Maintenance Access Panel (MAP) should preferably be located at Concourse level of station. Maintenance Access Panel (MAP) & Shaft Electrification Panel (SEP) shall be IP55, Piller proof.	The main controller cubicle will be provided and there is no separate MAP and SEP will be provided. Hence, Bidder requests to consider the same.	Please follow Tender Condition. Location of MAP & SEP will be dealt during design stage.



Reply to Pre-Bid Queries KNPAGE-03

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UPMRC Sl. no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
117	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	49	6.19.7	MAP shall have data down loading facilities for fault diagnostic through RS - 485 port and USB Port. Fault data logging in MAP should have date & Time stamping facilities of 500 events. There should be provision of resettable type counter for the recording no of operation of the Elevators.	Bidder is complying with the provision of RS-232 port in the controller for the fault data downloading of maximum 200 events with OEM protocol and with OEM system through our authorized customer engineer. Hence Bidder requests to consider the same.	Please follow Tender Condition.
118	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	50	6.19.13	In the event of failure of the normal electrical supply, the supply to the alarm cum intercom system, emergency car lighting, and the ventilation fan shall be automatically switched to an emergency battery operated power supply (UPS) of E&M System. The Elevator contractor shall do the necessary interface with E&M contractor for Supply of Armoured Cable up to the Electrical Box of UPS (inside the elevator's shaft) & for routing of armoured cable upto the entry point inside the elevator's shaft.	Bidder understands that, UPS required for alarm cum intercom system, emergency car lighting, and the ventilation fan along with necessary armoured cabling up to elevator shaft will be in electrical contractor scope. Please confirm on our understanding.	Please follow Tender Condition.
119	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	50	6.19.13	All hoistway and car-top safety switches shall be rated to IP Class 55 (minimum).	Bidder requests to consider IP X3 for hoistway and car-top safety switches.	Please follow Tender Condition.
120	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	50	6.19.14	All wiring and apparatus shall be subject to acceptance and suitable for the specified electrical supply. The insulation of all wiring including those within the controller shall be of flame retardant, low smoke halogen free type for underground stations only complying with the special cable requirement of this Specification.	Bidder recommends to consider FRLS type cables only for all the elevator wiring.	Please follow Tender Condition.
121	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	50	6.19.17	The outer sheath of these cables shall be of waterproof and flame-retardant material. The outer sheath of these cables shall be waterproof and flame resistance material which shall not emit toxic fume when affected by fire (i.e. Low Smoke Halogen Free) for underground stations only.	Bidder requests clarity on term "water proof cables" requirement. Please elaborate on the functional expectation.	Please follow Tender Condition.
122	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	50	6.19.18	The compatibility of MCB and ELCB used for elevators shall be verified with the requirement of the elevators. The MCB & ELCB are in the scope of elevator Contractor. Termination of main incoming armoured cable on the MCB/ ELCB shall also be the responsibility of the elevator contractor.	This will be in a scope of electrical contractor. All power and control wiring form elevator controller to respective devices will be in elevator contractor's scope. Request to consider the same. Please confirm.	Please follow Tender Condition.



Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
123	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	51	6.20	Provision for Remote Monitoring System (RMS) - Complete Clause	Bidder is providing BMS system for monitoring purpose only. Bidder will only provide interfacing for BMS. Scope of PC along with complete field cabling will be customer scope of supply. Please confirm.	Please follow Tender Condition.
124	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	52	6.21.2	In the event of power failure or power interruption or single phasing or unbalanced phases (or any problem in the power supply which affect the normal operation of the lifts), the supply to all Elevators shall be automatically switched over to the emergency power supply i.e. To Automatic Rescue Device (ARD) and the Elevators shall be brought to the designated floor and shall park there with the door remaining open.	With ARD the Lifts shall be brought to the designated floor and shall park there with the doors closed. The ARD is meeting the IS14665(Part3/Sec1) clause. Hence Bidder requests to consider the same.	Please follow Tender Condition.
125	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	52	6.21.2	In case Power supply to the lift is restored through DG set/ Alternate source before the lift reaches designated floor even then ARD will complete its function and lift doors open at designated floor to evacuate the passenger. Thereafter, Elevator designated by the authorized person may resume operation depending on the capacity of emergency power.	The elevator will resume normal operation automatically, once power supply is restored. Hence, no manual intervention is required. Bidder requests confirmation if this is acceptable.	It will be dealt during design stage. Please follow Tender Conditions
126	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.21.3	In the event of fire when any fire detection device is activated, all Elevators shall automatically be brought to the designated floor (Ground Floor in case of Ground to Concourse lift and to Concourse in case of Concourse to Platform Lift or as per requirement of Employer) and shall park there with the doors open for 15-20 seconds and then close. All Elevators shall automatically be rendered inoperative after it has been brought to the designated floor. The essential buttons such as "Door Open", intercom and alarm bell etc. on the car operating panels shall remain functional and illuminated. Normal operation of the elevators shall be manually reset by the operation of a reset key switch.	As per IS 14665, once the fire man switch is triggered, at the end of phase one operation, elevator will come to the designated landing and park there with door open. Bidder requests to consider the same. The elevator will resume normal operation automatically, once power supply restores. Hence, no manual intervention is required. Bidder requests confirmation if this is acceptable.	Please follow Tender Condition.
127	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.21.5	A battery back-up device to home the Elevators to the landing in the event of power failure shall be provided. This shall be battery operated and shall be able to move the elevators with any load from no load to full load at reduced speed to the landing and open the doors, which shall be achieved by provision of Automatic Rescue Device (ARD) and Battery Drive Tool (BDT) or Electrical Rescue Tool (ERT). The elevators door shall remain partially closed until resumption of power supply and the Elevators shall automatically reset to normal.	With ARD the Lifts shall be brought to the designated floor and shall park there with the doors closed after 15 secs. The ARD is meeting the IS 14665(Part3/Sec1) clause. Hence Bidder requests to consider that door is closed after 15 secs as per code in tender document.	Please follow Tender Condition.
128	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.21.5	However, the ARD start time can be adjusted from 0 to 30 sec depending upon resumption of emergency supply from alternative source/ DG sets.	We are complying with the ARD start time of 40-50 seconds. Bidder requests confirmation if this is acceptable, consider the same in tender document.	Please follow Tender Condition.



Reply to Pre-Bid Queries KNPAGE-03					
Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03					
UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification
129	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.21.5	The capacity of the battery when fully charged shall be capable of operating the Elevator at rated load from one landing to another for a minimum of 3 trips without further charging. To ensure the same new battery shall be capable to perform the test for 6 trips without intermediate charging at the time of commissioning.	As per IS 14665, it is recommended to perform minimum 3 trips without any charging. Bidder requests to consider the same.
130	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.22.1	An Elevator monitoring and fault diagnostic system shall be provided for each Elevator by the Elevator Contractor. This system shall provide an auxiliary output port on the controller for plugging the laptop & USB for down loading historical data, the exact requirement of which shall be reviewed at design stage.	The fault data can be download with RS-232 port in the controller with OEM Protocol and with OEM system only through our authorized customer engineer. Request to consider the same.
131	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	53	6.24.3	Fixed cat ladders shall be provided between the bottom landing and the pit floor by the Contractor	Bidder requests to consider Normal ladder as per code. Since, cat ladder will need more space. Also, for this much of less height Cat ladder is not suggested.
132	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	55	6.25	Corrosion Protection:- The Contractor shall take into consideration, the corrosive effect of the atmosphere in the Elevator design. 6.25.1 All steel components shall be hot dipped galvanized in accordance with BS 729, with minimum thickness of 85 µm. 6.25.2 All mechanical and cast iron assemblies shall be cleaned and painted. The running surfaces of car guides shall be treated with an accepted rust preventive compound. 6.25.3 All parts constructed in sheet steel shall be either galvanized by the hot dipped process or fabricated from hot dipped galvanized sheet steel. 6.25.4 All hardware, fastenings, screws and shims shall be hot-dipped galvanized. However, all visible screws and fastenings shall be of stainless steel. Epoxy painting will be permitted only on site damage repairs. 6.25.5 Wherever galvanization on ferrous components has been damaged in handling the same shall be given two coats of zinc chromate primer and two coats of aluminum paints conforming to IS 2339. 6.25.6 The contractor shall provide all parts, hardware fastenings, screws, components, assemblies and shims conform to latest Indian Standards.	Bidder's elevator components are powder coated and protected against environmental condition. Hence bidder requests to consider powder coating as an alternative to galvanization.
133	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	56	6.26(ε)	A laminated framed safety mirror of at least half of the size shall be installed on rear panel of both glass and stainless steel car door type elevators at appropriate position. To facilitate easy reversal/exit of person on wheel chair from the elevator without the need of rotating the wheel chair in the elevator.	Bidder requests to consider standard mirror option as an alternative in tender.

UPMRC's Reply

Please follow Tender Condition.

Please follow Tender Condition.

Please follow Tender Condition.

Not accepted, Please follow Tender Condition.



Reply to Pre-Bid Queries KNPAE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
134	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	57	6.27.6	The architrave Signage's shall be LED based and their cable shall be FRLSOH...	Bidder requests to consider the Normal architrave signages which will clearly show the required indications without LED. Please confirm.	Please follow Tender Condition.
135	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	58	6.29.1	Detail design of the elevators of Glass door with stainless steel hairline/Scratch Resistant: frame shall be carried out by the Contractor and reviewed without objection by the "Engineer" before fabrication.	Bidder request confirmation on whether the frame finish type is scratch resistant stainless steel OR stainless steel hairline finish for Glass Door elevators.	Please follow Tender Condition.
136	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	58	6.29.3	Car roof shall be stainless steel SS 304 honeycomb finish cover panels exposed to public view with a collapsible maintenance platform or any other suitable arrangement with "Employer/ Employer's Representative" approval above. It shall be able to sustain two persons and be able to resist a vertical force of 2000N at any position without permanent deformation. Permanent, hinged and foldable safety balustrades or any other suitable arrangement with "Employer/ Employer's Representative" approval forming an integral part of car top maintenance platform shall be provided. The design shall be to the review of the "Employer/ Employer's Representative".	Bidder has developed a special design in which all Car roof components will be arranged such that it will be aesthetically good in appearance while exposed to public and hence it need not be covered with any panels. Bidder requests to consider this as an alternative.	Please follow Tender Condition.
137	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	61	6.30.2	All Control cables shall be rated for minimum grade of 650V and all power cables for minimum grade of 1000V.	Bidder requests to consider all control cables to be rated with grade of 300V and as per EN 50525 for HLF cables all power cables are rated with grade of 450V or 750V which meets the applicable norms and standard for elevator application. Bidder requests to consider the same as this is suitable for elevator application.	Please follow Tender Condition.
138	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	61	6.30.3	The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228: Class 2.	IEC 228, Class 5 is considered as its flexible cable, hence considered in designing and Class 2 is generally meant for Armored and instrumentation cables. Bidder requests to consider IEC 228, Class 5 instead of Class 2.	Please Refer Addendum-1
139	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	61	6.30.4	The insulation shall consist of an extruded layer of cross-linked polyethylene complying with IEC 502.	Bidder requests to consider polyethylene insulation only. We are providing Halogen free cables which are complying with the tender requirement. The insulation class provided is for XLPE cables which is not required. Please consider FRLSHZ, i.e. Fire Retardant, Low Smoke, Halogen Free Cables only in tender.	Please follow Tender Condition.



Reply to Pre-Bid Queries KNPAGE-03

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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply																																																															
140	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	61	6.30.6	<p>Fire retardant, low smoke, halogen free materials shall meet the following requirements:-</p> <p>(a) London Transport Executive Three Meter Cube Smoke Emission Test, using optical measuring instruments. The maximum value of absorbance AO (ON), AO (OFF) shall be 0.8 & 1.2 respectively.</p> <p>(b) The US National Bureau of Standard Smoke Chamber Test, used to evaluate plaque samples of materials of constant thickness (NPPA-258 Smoke Generation of Solid Materials 1982). The maximum specific optical density shall 170 under the non-polluted condition.</p> <p>(c) The flame propagating criteria of US IEEE Standard 383, with a minimum test short circuit time of five minutes, in the IEEE Standard 383 test.</p> <p>(d) IEC 332 Parts 1 and 3, Category 'B', tests on single and bunched cables under fire conditions.</p> <p>(e) Limiting Oxygen Index of at least 30, to ASTM D-2863.</p> <p>(f) A temperature index (TI) of 260°C to ASTM D-2863.</p> <p>(g) All insulation is to be moisture and heat resistant, with temperature ratings appropriate to the application conditions, and in no case lower than 90°C.</p> <p>(h) When a sample of the cable is subjected to a combustion test for the determination of the amount of halogen acid gases (other than hydrofluoric acid) as set out in IEC 754 - Part 1, the halogen acid evolved shall not exceed a maximum of 0.5%.</p>	<p>Bidder's Elevators FRLS cables complies to IEC 60754-1, 60754-2, EN50267-2-1, EN50267-2-2, EN50267-2-3, VDE 0482-267 part 2-1, 2-2 and 2-3.</p> <p>IEC 60332-1-2, EN60332-1-2, VDE 0482-332-1-2.</p> <p>IEC 61034-1, IEC 61034-2, EN 61034-1, EN 61034-2.</p> <p>VDE 0482-1034 part 1 and 2.</p> <p>Bidder requests to consider removing all other IEEE/ASTM/London metro standards as it is very expensive and qualification process takes long time. So please consider only above mentioned standards & confirm.</p>	Please Refer Addendum-1																																																															
141	CHAPTER 6 DESIGN CRITERIA AND PERFORMANCE REQUIREMENTS - MACHINE-ROOM LESS ELEVATORS	66	6.34	<p>TFT Screen:- The TFT screen should have following specification:</p> <table border="1"> <thead> <tr> <th>Sl.No</th> <th>Item</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Display Type</td> <td>TFT (Thin Film Transistor) Tamper & Sabotage Proof</td> </tr> <tr> <td>2</td> <td>Operating Voltage(V)</td> <td>12V DC</td> </tr> <tr> <td>3</td> <td>Operating Current(A)</td> <td>1.67 A</td> </tr> <tr> <td>4</td> <td>Power Consumption(W)</td> <td>20 W</td> </tr> <tr> <td>5</td> <td>Screen Size (inch)</td> <td>12.1"</td> </tr> <tr> <td>6</td> <td>Resolution (mm)</td> <td>1024x768</td> </tr> <tr> <td>7</td> <td>Display Area (mm)</td> <td>246(H) x 185 (V)</td> </tr> <tr> <td>8</td> <td>Vertical visual angle</td> <td>+80° / -80°</td> </tr> <tr> <td>9</td> <td>Horizontal visual angle</td> <td>+80° / -80°</td> </tr> <tr> <td>10</td> <td>Luminance(cd/m²)</td> <td>500</td> </tr> <tr> <td>11</td> <td>Contrast Ratio</td> <td>700:1</td> </tr> <tr> <td>12</td> <td>Overall dimension (mm)</td> <td>290x206x57</td> </tr> <tr> <td>13</td> <td>Mounting Dimension (mm)</td> <td>241x274</td> </tr> <tr> <td>14</td> <td>Internal Memory</td> <td>241x274</td> </tr> <tr> <td>15</td> <td>External Memory</td> <td>MPEG1/2/4</td> </tr> <tr> <td>16</td> <td>Supporting the formats</td> <td>USB. But program can be saved in in-built memory</td> </tr> <tr> <td>17</td> <td>Boot Time</td> <td>25 sec</td> </tr> <tr> <td>18</td> <td>Temperature Range</td> <td>0 to 50° C</td> </tr> <tr> <td>19</td> <td>Humidity Range</td> <td>10-90 %RH</td> </tr> <tr> <td>20</td> <td>Speaker</td> <td>External speaker</td> </tr> </tbody> </table> <p>Note:- TFT screen should be compatible with all formats of videos including HD quality. It should have features for multiple display on screen at one time i.e. alongwith Videos, Data and time on one side. Instructions at lower part of display etc.</p>	Sl.No	Item	Specification	1	Display Type	TFT (Thin Film Transistor) Tamper & Sabotage Proof	2	Operating Voltage(V)	12V DC	3	Operating Current(A)	1.67 A	4	Power Consumption(W)	20 W	5	Screen Size (inch)	12.1"	6	Resolution (mm)	1024x768	7	Display Area (mm)	246(H) x 185 (V)	8	Vertical visual angle	+80° / -80°	9	Horizontal visual angle	+80° / -80°	10	Luminance(cd/m ²)	500	11	Contrast Ratio	700:1	12	Overall dimension (mm)	290x206x57	13	Mounting Dimension (mm)	241x274	14	Internal Memory	241x274	15	External Memory	MPEG1/2/4	16	Supporting the formats	USB. But program can be saved in in-built memory	17	Boot Time	25 sec	18	Temperature Range	0 to 50° C	19	Humidity Range	10-90 %RH	20	Speaker	External speaker	<p>Please elaborate as to where exactly is the TFT display required and what is the detailed scope.</p> <p>Please also elaborate and confirm that is the TFT Display required for Video display or only image display.</p>	TFT screen locations will be dealt during details Design Stage. It is a Video display. Please follow tender condition
Sl.No	Item	Specification																																																																			
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8	Vertical visual angle	+80° / -80°																																																																			
9	Horizontal visual angle	+80° / -80°																																																																			
10	Luminance(cd/m ²)	500																																																																			
11	Contrast Ratio	700:1																																																																			
12	Overall dimension (mm)	290x206x57																																																																			
13	Mounting Dimension (mm)	241x274																																																																			
14	Internal Memory	241x274																																																																			
15	External Memory	MPEG1/2/4																																																																			
16	Supporting the formats	USB. But program can be saved in in-built memory																																																																			
17	Boot Time	25 sec																																																																			
18	Temperature Range	0 to 50° C																																																																			
19	Humidity Range	10-90 %RH																																																																			
20	Speaker	External speaker																																																																			
142		82	9.6	All Elevator landing door gaps shall be less than 4 mm.	As per IS 14665 it is recommended to have less than 6 mm. Hence, bidder requests to consider the same.	Please follow Tender Condition.																																																															



Reply to Pre-Bid Queries KNPAGE-03						
Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03						
UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
143	CHAPTER 11 ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS	99	11.3.2	The Contractor shall ensure that all equipment supplied shall have minimum Radio Frequency Interference introduced onto the main network and comply with the Electromagnetic Compatibility (EMC) requirements of the following standards: EN 50081-1 : EMC Generic Emission Standard EN 50082-2 : EMC Generic Immunity Standard BS EN 12015 : Electromagnetic compatibility- Product family standard for lifts, escalators and passenger conveyors- Emission. BS EN 12016 : Electromagnetic compatibility- Product family standard for lifts, escalators and passenger conveyors- Immunity.	Please Consider EMC values complying to EN 12015 and EN 12016 norms only.	Please follow Tender Condition
144	Section-I (Elevated Stations) Part I	148	item 1	To provide MCCB and ELCB as per requirement of elevators outside the lift shaft.	Bidder understands that, this will be in electrical contractor's scope. Please confirm on our understanding.	Please follow Tender Condition.
145	Section-I (Elevated Stations) Part II	151	item 1	RMS Cable laying.	The scope of RMS cabling from elevator controller to RMS system kept in customer monitoring room, will be in customer scope of supply. Please confirm.	Please follow Tender Condition.
146	VOLUME 7 (Bill of Quantity Pricing Document)	36	Statement of Prices (vi)	Additional Price for providing rear side glass for shaft size 2500mm x 1900mm	Bidder requests that this statement be modified to " Additional Price for providing rear side glass wall for SS door elevator" instead of Glass door elevator.	Please follow Tender Condition.
147					Please confirm if all 150 elevators in the tender are with single opening. Please mention no. of hoistway entrances or opening in case of Through door requirement of an elevator.	Yes
148					Detailed drawings are not provided in the tender. Please provide sections, plans & elevations.	Detailed Station drawing will be provided after award of the contract
149	Vol 1 Annexure to ITT - Annexure 4	24 of 42	Appendix G	Project Organisation (d) Design Engineer - 2 Nos (U) Civil & Structural Engineer	Bidder requests to consider the "Design engineer" position to be off site support / from our Factory and he will be available at site as and when required during the complete project cycle. Regarding the position of "Civil & Structural engineer": Bidder may not require the full fledged profile personnel. Instead we may deploy the position of "Interface Engineer", who will be responsible for the co-ordination between employer civil & Structural team at site. Please confirm if this is acceptable.	Please Refer Addendum-1
150	Vol. 4	87	10.7.2	Elevator Prototype Tests A complete Elevator system including traction drive system, in addition to the controller, Elevator car enclosure, landing and car doors, protection devices and call fixtures shall be assembled on a test rig or inside a test tower to undergo a comprehensive running and functional testing in accordance with the accepted test specification to verify compliance with the Specification.	Bidders proposes to allow the prototype tests at job site location. However, all the components level inspection & Cabin Mock up can be done at Bidders factory before despatching to the site. The successful completion of prototype unit will be representative of all the elevators, and post completion of Prototype passed, further manufacturing clearance can be obtained. Please confirm if acceptable.	Please follow Tender Condition.
151	Vol.3	15	15.6.1	Site Facilities for the Employer's Representative The Contractor will be required to provide suitable accommodation for Employer's representative in Contractor's site office/work site.	Bidder requests deletion of Provision of Site office for Employer representative from Elevator Contractor scope.	Please follow Tender Condition.



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
152	Vol.3	15	15.6.2	The accommodation for Employer's Representative shall include furniture, fan, air conditioner, drinking water facilities and suitable communication facilities.	Bidder requests deletion of Provision of Site office for Employer representative from Elevator Contractor scope.	Please follow Tender Condition.
153	Vol. 3	16	15.6.6	The accommodation to be provided for the Employer's Representative can be used for the Contractor's staff associated with the Project, if necessary.	Bidder may propose to construct the site office for his exclusive use and monitoring the progress of the project.	Please follow Tender Condition.
154	PART I: SHE MANAGEMENT	4	3.4.2	The process of certification shall start immediately after the award of the work and complete within reasonable time. Towards this, the Contractor shall undertake the required steps including appointment of ISO consultant for obtaining the certification on Occupational Health and Safety Management System and Environment Management System.	Bidder's Infrastructure Division is certified with ISO & OHSAS standards from BSI. Hence Bidder requests that bidder be exempt from this requirement of taking separate certificate from an agency. Please confirm if acceptable.	Please follow Tender Condition.
155	PART I: SHE MANAGEMENT	4	4.1	The Contractor, as per Section 39 of the BOCW Act shall formulate a SHE policy and get it approved by DG/CIIBC, and display it at conspicuous places at work sites in Hindi and local languages understood by the majority of construction workers.	Bidder has it's standard HSE policy in Hindi & English. Please confirm if acceptable.	Please follow Tender Condition
156	PART I: SHE MANAGEMENT	7	5.7	If any of the above-mentioned clauses (5.5.1) are not adhered penalty shall be imposed depending upon the gravity of the unsafe act and or condition The Contractor shall appoint the required SHE personnel as prescribed in General Instruction Appendix - 5 (enclosed at the end) based upon the statutory requirement and establish the safety organisation based upon the Contract value. The minimum educational qualification and the work experience are given in General Instruction Appendix-6. General Instruction: MAHA-METRO/SHE/GI/001 1) Chief Safety manager- 01. 2) Sr-Safety Manager-01. 3) Jr-SHE Manager-01. 4) Safety Steward- 01 per shift. 5) Sr-SHE(Electrical Engineer)- 01. 6) Jr-SHE (Electrical Engineer)-01. 7) Jr-SHE (Fire Manager)-01 8) Occupational Health Officer with nursing staff - 9) Environmental Manager-01 10) Sr-SHE (Traffic) Engineer-01. 11) Barricade Manager- Squad-01 12) Housekeeping Squad-01. 13) Labour Welfare Officer-01.	Bidder requests waiver of these Penalty Clauses as Bidder has vast experience in handling Infrastructure tenders across the country with utmost priority given to Safety.	Please follow Tender Condition.
157	PART I: SHE MANAGEMENT	7	6.1.1		Bidder recommends that such a vast Safety Organisation is not required to fulfil the project requirement. Hence, Bidder requests that this requirement be waived off. A Full time Safety Office will be stationed at site which is sufficient. Please confirm if this will be acceptable.	Please follow Tender Condition.
158	PART I: SHE MANAGEMENT	7	6.1.2	In order to effectively interact on labour welfare matters with the Employer and the statutory authorities enforcing the labour welfare legislations every Contractor shall employ a full time Labour Welfare Officer duly qualified and experienced as per Clause 6.1.1.	Bidder has SMC (Subcontractor- Management cell) Dept. to comply labour related statutory requirement which suffices the requirement. Please confirm if this is acceptable.	Please follow Tender Condition.
159	PART I: SHE MANAGEMENT	11	8.2	All personnel shall be issued a photo identity card of size 85mm x 55mm duly signed by the authorized representative of the Contractor before they are engaged for any work as per the format given in the General Instruction KMRC/GI/005/JDC/281105.	Bidder's personnel has it's own ID Card. Hence, bidder requests that this requirement be waived off.	Please follow Tender Condition.
160	PART I: SHE MANAGEMENT	11	8.3	Contractor shall also issue a personnel SHE handbook in a language known to the workers, which provides information on SHE and emergency procedures that all personnel working on contract are required to know and the need to follow. Contractor shall ensure that this is distributed and its content introduced to all personnel working at the site.	Bidder has safety handbook in English which contents can be translated into Hindi language whenever required. Please confirm if this is acceptable.	Please follow Tender Condition.
161	PART I: SHE MANAGEMENT	17	11.4.1	External SHE audits are to be conducted by external agencies that are competent with ISO qualified auditors with the prior approval of the Employer.	Bidder's auditor conducts training on quarterly basis. Hence bidder requests waiver on this tender requirement.	Please follow Tender Condition.
162	PART I: SHE MANAGEMENT	24	16.1	Contractors may utilise the services of experts/agencies empanelled under relevant Rule of BOCWR and relevant Rule of RBOCWR for the purpose of training, internal audit and any other SHE services with prior approval of the Employer.	Bidder requests waiver on this requirement.	Please follow Tender Condition.



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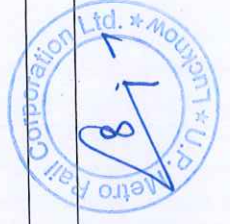
UPMRC S/No.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
163	PART I: SHE MANAGEMENT	24	16.2	As an aide to contractors, a list of experts/agencies and the offered service are given in General Instruction attached as Appendix 14 for ready reference. In addition to it if the contractor would like to use any expert/agencies services for any SHE activities the same can also be allowed provided that they are competent and meet to the general requirements of Employer. In every case prior approval of the Employer is mandatory.	Bidder requests waiver on this requirement.	Please follow Tender Condition.
164	PART II: SAFETY	63	42.2	The Contractor shall ensure at a construction site an occupational health centre, mobile or static is provided and maintained in good order. Services and facilities as per the scale lay down in Schedule X of BOCWR. A construction medical officer appointed in an occupational health centre, possess the qualification as laid down in Schedule XI of BOCWR.	Bidder will tie up with nearby hospital. Hence Bidder requests waiver on this requirement.	Please follow Tender Condition.
165	PART II: SAFETY	63	42.3	The Contractor shall ensure at a construction site of a building or other construction work that an ambulance van and room are provided at such construction site or an arrangement is made with a nearby hospital for providing such ambulance van for transportation of serious cases of accident or sickness of workers to hospital promptly and such ambulance van and room are maintained in good repair and is equipped with standard facilities specified in Schedule IV and Schedule V of BOCWR.	Bidder will tie up with Ambulance agency. Hence Bidder requests waiver on this requirement.	Please follow Tender Condition.
166	PART II: SAFETY	63	42.5.2	The Employer will engage a professional agency for implementing the guidelines laid down in the policy and communicate to the Contractor.	Bidder requests waiver on this requirement.	Please follow Tender Condition.
167	PART II: SAFETY	63	42.5.5	As laid down in the policy the Contractor shall identify peer educators (1 for every 100 workers) and refer them for professional training to the Employers' appointed agency for the purpose	Bidder requests waiver on this requirement.	Please follow Tender Condition.
168	PART II: SAFETY	66	44.1.2	The oxygen level shall not be less than 19.5% in the working environment.	Bidder requests waiver since we do not work in confined space hence there is no need to Purchase Oxygen meter to monitor oxygen level at site.	Please follow Tender Condition.
169	PART - V: PENALTY AND AWARDS	75	56.1	UPMRC intends to build an image of safety conscious organisation. Any reportable accident (fatality / injury) results in loss of life and/or property damage. These accidents not only result in loss of life but also damage the reputation of KMRC. Most of the accidents are avoidable and caused preliminarily due to Contractors' negligence. Hence KMRC shall recover the cost of damages from the Contractors for every reportable incident (fatality / injury).	Bidder requests waiver on this clause as the penalty mentioned is too high.	Please follow Tender Condition.
170	PART - V: PENALTY AND AWARDS	75	56.2	In addition every UPMRC work site is exposed to public scrutiny as the work is executed just on the right-of-way. Any unsafe act / unsafe condition observed by public further damage KMRC's reputation. In view of this, KMRC has decided to establish safety-enforcing organisation. The cost of establishing such organisation is to be recovered from Contractors for all observed safety violations at sites.	Bidder requests waiver on this clause as the penalty mentioned is too high.	Query is not clear, bidder has used KMRC instead of UPMRC. Please follow tender condition.
171	PART - V: PENALTY AND AWARDS	75	56.3	The following table indicates the Safety, Health and Environment violation (unsafe act / unsafe condition) and charges to be recovered from contractors.	Bidder requests waiver on this clause as the penalty mentioned is too high.	Please follow Tender Condition.
172	Vol 3	55 of 191	Chapter 5	The Contractor shall submit to the Engineer, for his consent, his proposed Site Quality Plan based on the Outline Quality Plan and the Employer's Requirements. The quality manual shall address the quality system as required by ISO 9001/9002:2000.	The QMS system shall be based on the latest ISO 9001:2015 standard.	Please Refer Addendum-1
173	Vol 3	GS 5-2 of 7	5.3	Management Quality Plan	Bidder will be providing Bidder's Quality Manual.	Please follow Tender Condition.
174	Vol-3 GS	GS 10-4 of 5	10.4.3	The Contractor shall provide such written or printed matter, functional equipment, samples, models, cutaway equipment, slides, films and other instructional materials as may be necessary for training. Such equipment and material shall remain the property of the Employer and shall be sufficient both for the persons trained by the Contractor and for those to be subsequently trained by the ETI.	Bidder will provide training manuals only. Please confirm if acceptable. For other aids to be given, separate budget needs to be allotted. Bidder requests exemption for other means as suggested in tender.	Please follow Tender Condition.



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
175	Vol-4 PS	134	19.2	The training shall be provided by the Contractor to the Employer's personnel in design Operation and Maintenance, manufacturing, testing, system architecture and installation practices related to elevators. This will cover training in India and abroad including training at manufacturing facilities	<p>Bidder covers installation, Commissioning & maintenance related training only which includes training delivery, training manuals- theory & hands on. Arrangement of training site, tool box, PPEs, Irg room, etc. is to be done by the employer.</p> <p>For effective Irg delivery- Batch size should be optimum (4 to 6 persons). Trainers travel, lodging & boarding extra and should be taken care by the employer. Please confirm if acceptable.</p>	Please follow Tender Condition.
176	Volume-1 NIT	19 to 42	Annexures of ITT Clause No.-18.	The elevator for 13 person will be accommodated in the available shaft of dimension 2500 (W) X 1900 (D) (For Non-Hanging / Normal) 2500 (W) X 2100 (D) (For Hanging / Normal) 2100 (W) X 2500 (D) (For Through Type Lift) with any variation in tune of +250mm and - 100 mm	Kindly note that car size of 1600mm width and 1400mm depth is asked for 13 passenger. But for through type car shaft size of 2100 (W) X 2500 (D), we can offer car size of 1150 (W) X 2000 (D). Also note that maximum door opening width of 900mm only can be offered for through type car due to shaft size. So kindly clarify is it ok to modify for through type lift.	Car Size of through type lift will be finalized during design Stage. Please follow Tender condition
177	Volume-1 NIT	20 of 42	Annexures of ITT , Clause No.-18.	In case Maintenance Access Panel (MAP) is exposed to open area, its enclosure shall be IP 55, Piller proof	Kindly clarify is it ok to have IP54 instead of IP55 since MAP area is always protected from rain.	Please follow Tender Condition.
178	Volume-2	15 of 28	SCC, 23. Sub Clause 10.0.	Defect liability period Defect liability period shall be 24 months from the date of issue of taking over certificate. During the Defects Liability Period the Contractor shall provide, free of cost, competent and skilled personnel and maintain adequate stock of spares so as to promptly fulfil his obligations during the Defects Liability Period as laid down in GCC and Employer's Requirements. A penalty of Rs.10000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs.	Customer related misuse / vandalism / power issues / external reasons & Planned preventive and repair visits to be excluded from calculation	Please follow Tender Condition.
179	Volume-2	15 of 28	SCC, Maintenance Log Book.	The Contractor shall maintain a Maintenance Log Book at each Station, the format for which shall be approved by Engineer – in – charge. In the Maintenance Log book the details about date of Routine Maintenance, Routine Maintenance activities performed, Details of Call – out visit / Break – down maintenance, etc. shall be maintained. Copy of relevant pages of the Log book to be submitted to the Engineer – in – charge with the Monthly status report.	LIVE Data on maintenance activities being done at different sites of UPMRC shall be made available Online, through web portal & mobile, with dashboards designed to suit UPMRC requirement. UPMRC to confirm if this shall comply with tender requirement	Please follow Tender Condition.
180	volume-4	6 of 185	PS, 2.3.1 g).	The entire Scope of Works shall generally meet design requirements of fire safety in accordance with NFPA Standard for Fixed Guide-Way Transit System, with latest versions/ amendments, except where amended by this PS.	Is NFPA mandatory? Kindly note that KONE offer does not include NEPA codes and other international codes except relevant Indian standards and EN codes. But in KONE offer, IP rating and cable as FRLS & FRLSHF considered wherever requested in tender	Please follow Tender Condition.
181	volume-4	14 of 185	PS, 4.3 d) (ii)	Design life 30 years	Kindly note that in KONE offer design life of 20 years considered as per 8.1.1. Is it ok if we comply as per clause 8.1.1	Please follow Tender Condition.
182	volume-4	17 of 185	.11.1	Relevant, Indian Standards, IEC Standards, EN Standards, British Standards, and other National/International standards as applicable.	Kindly note that KONE offer include Relevant Indian standards and NBC 2016 only.	Please follow Tender Condition.
183	volume-4	18 of 185	4.17.2.	Elevators shall comply with the requirements as per latest edition of EN 81 and BS5655 of the British Standards.		Nil query
184	volume-4	28 of 185	6.3.2 (a).	As per IEC 60034 – 1, Motor should be suitable for Duty Cycle S5 – 60%	The elevator motor duty is intermittent periodic duty S3 - 60% as per IEC 60034 due to VF drives which limits starting current & ensures smooth stop. There is neither heavy starting current & nor electrical breaking which is characteristic of S5 duty. Kindly check and update S5 to S3	Please follow Tender Condition.
185	volume-4	32 of 185	6.8.1 (a).	Adjustable guide shoes shall be provided and properly fitted at the top and bottom on each side of the car frame and the counterweight frame	Kindly clarify sliding guide shoe or Roller guide is required. Because design requirement for both shoes are provided in tender document.	Please follow Tender Condition.
186	volume-4	34, 42	6.8.6	A toe guard shall be provided for the car doors conforming to Paragraph 8.4 of EN81 Part 1. The toe guard for elevators shall be made of galvanized sheet steel of not less than 1.5 mm thick and painted and shall be adequately braced at the back. The depth of the toe guard shall be sufficient to prevent any object from being trapped between the underside of the car platform and the landing during revolving operation (with a minimum of 700 mm).	Kindly clarify shall we provide 400mm toe guard as per IS:4665 code for landing door instead of 700mm.	Please follow Tender Condition.
187	volume-4	35	6.16.1 c) 6.8.9.	Toe guards similar to those provided to the car door sill shall be provided beneath landing door sill. The car junction box with IP Class 55 protection, for the traveling cables and car enclosure wiring shall be installed at the car top	Shall we offer IP54 protection?	Please follow Tender Condition.



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
188	volume-4	36	6.8.10 (b) iv.	The Fire rating of Car door shall be complying with the requirement as per the National Building Code	As per NBC 2005 car door needs to be 1hr fire rated and same is removed in NBC 2016. Since we are complying to NBC 2016, car door is non fire rated.	Please follow Tender Condition.
189	volume-4	38	6.9.4.1	Electrically operated proximity detector device(s) shall be installed on the leading edge of the car doors. The device(s) shall create a three dimensional zone of protection for the entire height of the door opening.	As per IS 14685, NBC 2016 standards, safety device range needs to be up to 1600mm from FFL. Shall we comply to the same as per code to the height is 1600mm?	Please follow Tender Condition.
190	volume-4	46	6.18.2.	The water sensors in the elevator pits shall be provided wherever pits are on the ground level or below the ground level.	Please clarify quantity of elevators required with water sensor as there is no clear detail of which elevator have pit in ground level or below ground level	Please follow Tender Condition.
191	volume-4	47	6.18.6.	An over speed governor shall be provided, which is capable of activating the safety gear in the event of the Elevator exceeding the rated speed. The tripping of the over-speed governor for the safety gear shall occur when the car speed exceeds 140 % of the rated speed (of 1.0 m / sec) downwards	Kindly note that as per IS 14685 tripping speed should not be more than 140% of rated speed. Kindly check and update the statement to "when the car speed exceeds before 140 % of the rated speed (of 1.0 m / sec) downwards"	Please Refer Addendum-1
192	volume-4	133	CHAPTER 19.	Training and Transfer of Technology	Clarify exactly what is required for transfer of technology	Please follow tender condition
193	volume-4	180 t181	APPENDIX G, Page Between 180-181	CAR & SHAFT PLAN GAD	Kindly confirm the colour size and material which is shown in the CAR & SHAFT PLAN (On both side walls) for fixing guiderail brackets.	It will be dealt during detail design stage. Please follow tender condition
194	volume-4	24	6.2.5 The reliability, availability and maintainability requirement of elevator which are as follows:	(a) Reliability Requirement The Reliability requirements of this PS shall be subsidiary to the Availability and Maintainability requirement of this PS. The reliability of equipment should be of level that it does not result in passenger trappings in the Elevator due to equipment failure. Any claim/ Damage /Compensation claimed by the affected passenger/ elevator user on account of equipment failure shall be recovered from the firm. In addition, UPMRC shall impose a penalty @ Rs 15,000/(Rs Fifteen Thousand Only) per case. The penalty shall be applicable during DLP and AMC. The Reliability measure for the Elevators shall be the Mean Time Between Maintenance Action (MTBMA). This covers both preventive as well as corrective maintenance. The Elevators shall achieve a MTBMA not less than 7 days. (b) If elevator is kept out of service for more than 24 hrs due to non-availability of Spares or due to lack of proper attention. UPMRC shall impose a penalty of Rs. 15,000/(Rs Fifteen Thousand Only) per day for each such case. The penalty shall be applicable during DLP and AMC.	Please consider the calculation as cumulative for all units as a group, and not for individual units. Customer related misuse / vandalism / power issues / external reasons & Planned preventive and repair visits to be excluded from calculation	Please follow tender condition
195	volume-4	24	6.2.5.	Availability = $\frac{(365 \times 20 \text{ hrs} \times \text{No. of lift calculation in section}) - (\text{Total Unavailability hrs. in one year})}{(365 \times 20 \text{ hrs} \times \text{No. of lift calculation in section})}$ The Elevator shall achieve minimum availability of 99.9% calculated as above For the purpose of Availability calculation, the contractor shall assume the service operating hours are 20 hours per day (4:30 AM to 00:30 Mid Night). For 365 days a year for the design life.	Please consider the calculation as cumulative for all units as a group, and not for individual units. Customer related misuse / vandalism / power issues / external reasons & Planned preventive and repair visits to be excluded from calculation	Please follow tender condition
196	volume-4	25	6.2.5 The reliability, availability and maintainability requirement of elevator which are as follows:			Please follow tender condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
197	volume-4	26	6.2.5 The reliability, availability and maintainability requirement of elevator which are as follows:	<p>d) Call out ratio Failure: Elevator not available for more than one hour for passenger service shall be registered as a failure provided:</p> <p>(1) Failure is attributable to – (i) Design defect (ii) Equipment failure / replacement (iii) Manufacturing defect. (iv) Wrong Erection (v) Maintenance lapse (during DLP & AMC by the contractor) or</p> <p>(2) "Mantrap" resulted because of any of the above defect. The call out ratio i.e. engineer visits to the site for non-schedule maintenance for the failures as defined should not exceed 2 on any one of the elevator in a year. The average call out ratio should not exceed 1.5 for No of elevators provided by the bidder under this contract on the concerned line. The period one year will commence from date of Revenue Operation / Taking over whichever is later. If per lift per year. If the visit of engineer for non-schedule maintenance above exceeds 2 per lift per year, or 1.5 average call out ratio exceed, a penalty of Rs. 15,000/- (Rs Fifteen Thousand Only) shall be imposed for each such visit. The penalty shall be applicable during DLP and AMC.</p>	Please consider the calculation as cumulative for all units as a group, and not for individual units. Customer related misuse / vandalism / power issues / external reasons & Planned preventive and repair visits to be excluded from calculation	Please follow tender condition
198	volume-4	182	MAINTENANCE REQUIREMENTS,	<p>1.2.8.1 The Contractor shall provide monthly, quarterly, half-yearly and yearly reports on the condition of the equipment in a format approved by the Employer.</p>	Reports on maintenance activities being done at different sites of UPMRC shall be made available Online through web portal & mobile with dashboards designed to suit UPMRC requirement. UPMRC to confirm if this shall comply with tender requirement	Please follow tender condition
199	volume-4	183	MAINTENANCE REQUIREMENTS,	<p>1.2.8.1 The Contractor shall provide monthly, quarterly, half-yearly and yearly reports on the condition of the equipment in a format approved by the Employer.</p>	Please consider the calculation as cumulative for all units as a group, and not for individual units. Customer related misuse / vandalism / power issues / external reasons & Planned preventive and repair visits to be excluded from calculation	Please follow tender condition
200			General	Station wise units & corridor wise units required	Architectural drawings are not available. So kindly provide the same to check shaft details. Because we need to check possibility of bracket fixing, landing door sill and header fixing.	It will be dealt during detail design stage
201			General	Architectural drawing	Architectural drawings are not available. So kindly provide the same to check shaft details. Because we need to check possibility of bracket fixing, landing door sill and header fixing.	It will be dealt during detail design stage
202	Vol 1, ITT	6	A.1.5, Page 6	Tenders may please note that in addition to different corridors of Kanpur & Agra MRTS as per clause no A.1 of ITT, the work of lifts in 2nd Corridor of Agra Cantt. To Kailindi Vihar, Total 42 nos of Elevators at 14 Stations may also to be covered under this tender as quantity variation as per SCC clause 35 after award of work. The key dates for this corridor shall be accordingly informed while placing the variation order	Since the quantity of additional elevators which may be required is very high (42), contractor shall be allowed to quote rates separately for these elevators which can be agreed between the parties at a later stage. Agreed rates for existing contract may not apply. Further as per SCC Clause 35 quantity variation at the same rate is allowed only upto 25% of value. Additional price for 42 units may be more than 25% of original value. Hence quantity variation clause may not apply. Kindly consider and amend suitably	Please follow Tender Condition
203	Vol 1, ITT	19	C.7.2, Page 19	The design of the Works shall be undertaken by a designer or the design wing of the tenderer (the Designer) who has experience in the design of similar works as in scope of tender. Approval of the proposed Designer intended to be engaged shall be obtained from UPMRC before engaging the Designer by the contractor.	Please note that we have the inhouse competency and the required team for design. In such a case, kindly waive off the requirement of seeking approval. Kindly amend the clause suitably.	Please Refer Addendum-1
204	Vol1, FOT	6	Appendix 1, Page 6	Clause V - 'Defects Liability Period' for the whole of the Works - As per clause 23 of SCC after the date of issue of Taking-Over Certificate for whole of the works	As per SCC clause 23, Taking Over shall be for respective part of works instead of Whole of Works. Kindly confirm & amend suitably	Please follow Tender Condition
205	Vol 1, FOT,	7	Appendix 1, Page 7	Clause VIII - Insurance cover for Contractor's All Risk and other requirements as specified in the GCC - 100% of the Total Contract Price	Please note that we will take "Storage cum Erection All Risk Policy" instead of CAR policy.	Please follow Tender Condition
206	Vol 1, FOT	7	Appendix 1, Page 7	Clause IX - Amount of third party insurance - INR 0.50 Million for any one incident, with no. of incidents unlimited.	Kindly restrict the Maximum incidents to 5 in number.	Please follow Tender Condition



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
207	Vol 2	16	SCC. 24. (b), Page 16	same shall be reimbursed by UPMRC based on submission of: (i) Monthly Return of GST (GSTR-3B) of the contractor for the relevant period/periods along with detailed statement (GSTR 1 & GSTR 2) and copy of challans in regard to deposit of taxes for UPMRC project.	GST compliance will be ensured, however it will not be possible to share copies of challans for tax deposits. GST payment details shall be available in the GST portal. Kindly amend suitably	Please follow Tender Condition
208	Vol 2,	25	GCC. 4.25, Page 25	Providing access roads/ way leaves to the site will be Contractor's responsibility.	Please modify the clause as it is not relevant for our scope of work	Query is not clear please follow Tender Condition
209				Risk and responsibility		
210				(d) sickness, or disease, or death of, or injury to any person; and		Please follow Tender Condition
211	Vol-2	60	GCC. 14.1, Page 60	(b) loss of, or damage to, or destruction of any property (other than the Works) including consequential loss of user; and		Please follow Tender Condition
212				(c) loss, damage or costs arising from the carriage of Plant, Rolling Stock and Materials and/or ownership or chartering of marine vessels by the Contractor, or any sub-contractor of any tier.	We request to delete the "consequential loss of user" clause	Please follow Tender Condition
213	Vol 2,	70	GCC. 17.9, Page 70	Arbitration - Matters to be arbitrated upon shall be referred to a sole Arbitrator if the total value of the claim is upto Rs.5 million and to a panel of three Arbitrators if total value of claims is more than Rs.5 million. The Employer shall provide a panel of three arbitrators which may also include UPMRC officers for the claims upto Rs.5 million and a panel of five Arbitrators which may also include UPMRC officers for claims of more than Rs.5 million.	Please consider appointment of independent arbitrators / mutually agreed arbitrators	Please follow Tender Condition
214	Vol 2,	15	SCC 23- GCC 10, Page 15 Vol 4. 6.2.5 (a), Page	Defect liability period A penalty of Rs.10000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs. In addition, UPMRC shall impose a penalty @ Rs.15,000/-(RS Fifteen Thousand Only) per case. The penalty shall be applicable during DLP and AMC.	1) Penalty shall be applicable in case delay attributable to the contractor. Kindly include this point 2) Kindly restrict the penalty per day/case/visit to Rs 5000 instead of Rs 10000 or 15000 as mentioned in vol 4	Please follow Tender Condition
215	Vol 2,	17	SCC 25-a- GCC 11.1.3 ,Page 17	Prices quoted by the tenderer shall be fixed throughout the Tenderers performance of the contract and not subject to variation of any account except where specifically mentioned in the contract conditions along with the price variations formula to be made applicable.	If the project gets delayed due to reasons beyond the control of Contractor, the contractor may suffer heavy financial losses. Therefore, price validity date should be defined in the contract as per agreed schedule. In case of extension of project beyond this date due to reasons not attributable to contractor, price escalation shall be paid to Contractor as per mutual agreement. Kindly consider. Additionally, as per ITT clause A.15, additional elevators may be required in the project. Therefore, in case of delay in the project, we may not be able to offer these additional units at the same rate. Kindly allow price escalation clause.	Please follow Tender Condition
216	Vol 2	22	SCC 40, Page 22	Retention money equal to 10 percent of the amount due to the Contractor from each on account payment will be retained, so as to maintain a reserve in the hands of the Employer equal to 5 percent of the Contract Price.	We propose to submit retention BG of 5% of contract value, valid till issuing of Taking Over Certificate, in lieu of cash retention, before submission 1st invoice. In such a case, no cash retention shall be deducted. Kindly include the option of submitting BG for retention	Please follow Tender Condition
217	Vol 2,	28	SCC 45, Page 25 Vol 2, SCC 58, Page 28 SCC 46, Page 25	Indemnity Bond Safe Custody Bank Guarantee Stage Payment	Since indemnity bond will be submitted, kindly waive off the requirement of Safe Custody BG	Please follow Tender Condition
218	Vol 2	25, 15	Vol 7, BOQ, Page 15	For the item where rate of supply given separately, the payment shall be in two stages i.e. 85% after delivery of materials at site and 15% after successful testing & commissioning & handing over In accordance with the provisions of SCC Clause 24 the Employer will pay the Contractor in the following manner and at the following times on the basis of the Prices given in the Statement of Prices. Retention money will be deducted from the payments due in accordance with the Conditions of Contract	As per payment terms mentioned in the BOQ, supply payment will be in two stages - 95% against evidence of loading of material and 5% after commissioning. Kindly amend the referred SCC Clause in line with the same	Please follow Tender Condition
219	Vol 2,	28	SCC 59, Page 28	Inspection Right by the Financier Contractor grants the Employer, the EIB and auditors appointed by either of them, as well as any authority or European Union institution or body having competence under European Union law, the right to inspect and copy the books and records of the tenderer, contractor, supplier or consultant in connection with any Bank-financed contract.	Kindly confirm if this project falls under the category of "bank-financed project". We request waiver of this clause	Not applicable
220	Vol 2	2	SCC, Schedule 5, Page 2	Contractors Warranty clause (d) - He agrees that should any modification be required to any equipment or component as a consequence of failure, the period of 24 months shall re-commence from the date when the modified part is commissioned into service.....	Kindly keep the period of 24 months warranty fixed from the date of taking over of respective elevator. During this period, any replacement of component should not result in recommencement of 24 months warranty for that component	Please follow Tender Condition



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause
221	Volume-1 NIT	3	1.1.4.1.(i)	Joint Ventures and consortiums are allowed to participate in the tender only if tenderer is an Indian bidder having licence/technology collaboration agreement with a foreign manufacturer for phased indigenization as per clause 1.1.4.1 (iii) of NIT.
222	Volume-1 NIT	4	1.1.4.1.(x)	Tenderer to note that not more than two parties have been allowed to participate in JV
223	Volume-1 NIT	7	3	Requirement of registration: As per GoI MoF DoE order for public procurement (No.1) dated 23.07.2020 amendment has been made in rule 144 of GRF making requirement of registration of bidders with competent authority for public procurement. The bidders to submit certificate regarding compliance as per clause 12 of GoI MoF/DoE order (public procurement -1) dated 23.07.2020 as per Annexure-4(A) & Annexure 4(B) of NIT
224	Volume-1 NIT	9	1.1.4.2	The tenderers will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven years ending 30.06.2020.
225	Volume-4	14	4.3.1	The Elevator Sub-systems and Equipment proposed by the Contractor shall have been in use at minimum two MRTS Projects to and have established their performance reliability over a period of at least two years
226	Volume-4	24	6.2.5 (a)	Any claim/ Damage /Compensation claimed by the affected passenger/ elevator user on account of equipment failure shall be recovered from the firm. In addition, UPMRC shall impose a penalty @ Rs.15,000/- (Rs Fifteen Thousand Only) per case. The penalty shall be applicable during DLP and AMC
227	Volume-4	24	6.2.5 (b)	If elevator is kept out of service for more than 24 hrs due to non-availability of Spares or due to lack of proper attention, UPMRC shall impose a penalty of Rs. 15,000/- (Rs Fifteen Thousand Only) per day for each such case. The penalty shall be applicable during DLP and AMC. The Elevator shall achieve minimum availability of 99.9%.
228	Volume-4	26	6.2.5 (d)	If the visit of engineer for non-schedule maintenance above exceeds 2 per lift per year, or 1.5 average call out ratio exceed, a penalty of Rs. 15,000/- (Rs Fifteen Thousand Only) shall be imposed for each such visit. The penalty shall be applicable during DLP and AMC.
229	Volume-4	26	6.2.7	Through opening
230	Volume-4	26	6.2.7	Additional Price for supply, installation testing and commissioning of Hospital Grade (26-passenger, 2000kg) elevator in the particular vertical rise of elevator within the shaft size of (2600 X 2900 mm)
231	Volume-4	26	6.2.7	OHRH and Pit depth for 26Pax
232	Volume-4	28	6.3.2	Driving motor shall be of the AC synchronous/asynchronous axial type designed for special duty The Elevator machine shall be fitted with a manual emergency device capable of having the brake released by hand Manually operated/ Battery operated and requiring a constant effort to keep the brake open.
233	Volume-4	29	6.3.23 (g)	Adjustable guide shoes shall be provided and properly fitted at the top and bottom on each side of the car frame and the counterweight frame. The guide shoes shall be either slipper type or roller guides as appropriate.
234	Volume-4	32	6.8.1	Please confirm whether to consider sliding guide shoes or roller guide shoes as per applicability of our offer. We recommend to use sliding guide shoes as per applicability of elevators.



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UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
235	Volume-4	33	6.8.3	Car enclosure required under this Tender are of two types: - (i) Stainless Steel door and side panels elevators. (ii) Glass door & two side glass side panel elevators (Anywhere in the tender, if it is mentioned as Glass Lift, it should be considered as Glass Door with two side Glass Panels as per Indication Drawing Shown in Appendix-G) No wood or other combustible materials shall be used for any part of the Elevator car including car door and emergency trap door.	We can give two glass panels in car cabin having central panel of stainless Steel on each side of car (Left & right). While corners will have frames in stainless Steel.	It will be dealt during design stage. Please follow Tender Conditions
236	Volume-4	33	6.8.3 (b)	A low speed fan of low noise shall be used. The noise from the fan measured at a distance of 1 meter away within the Elevator car shall not exceed 50 DBA (+5%).	Please confirm do we need to provide emergency trap door in car cabin	Please follow Tender Condition.
237	Volume-4	34	6.8.7	The fascia of minimum 300 mm width on every landing or as per site condition for fixing the Landing Plate, indicators, and MAP etc. shall be of Scratch Resistant Stainless steel/ Stone work and shall be in scope of elevator Contractor.	Total noise shall be 65 dba as per NBC	Please follow Tender Condition
238	Volume-4	35	6.8.10	The degree of ingress protection provided by both Car-door and Landing-door to the car and the internal machinery shall be IP-54.	Please confirm for architrave work shall be Scratch Resistant Stainless steel or Stone work. The same shall be in scope of Client or civil contractor.	It will be dealt during design stage. Please follow Tender Conditions
239	Volume-4	37	6.8.10	The door lock shall prevent the car doors from being opened by the door operator or by force when the car is moving or is not stopped within the unlocking zone of a landing. Electric interlocks shall be provided to ensure that elevator will not operate, if the car door is not closed and locked. If the car door is forced open, the Elevator shall stop and the alarm activated (even when the Elevator is out of order) until the door is fully closed. The audio visual alarm signal shall be sent to the relevant landing as well as to SCR and CC rooms.	This contradicts point no. 6.16.1-(f) :- iii. The locking device (door contact switch) shall have at least IP 20 protection. The activation of alarm, audi visual signal at SCR and CC is not feasible to provide	Please follow Tender Condition.
240	Volume-4	38	6.9.3	The faceplate shall be made of scratch resistant stainless steel grade 304 hairline finishes. Specifications/features of various items to be provided in COP are following : (a) An alarm button in yellow colour with bell shaped symbol, when pressed, shall activate the alarm hooters and register the alarm condition through Remote Monitoring System at the SCR / CC room or as per requirement of employer and also provide Audio visual indication at all Landings for the Alarm. A red "Car Overload" indicating lamp with buzzer in both Hindi and English Language.	The activation of alarm, audi visual signal at SCR and CC is not feasible to provide	Please follow Tender Condition.
241	Volume-4	39	6.11.2	The door shall be made of scratch resistant stainless steel grade 304 hairline finishes. Specifications/features of various items to be provided in COP are following : (a) An alarm button in yellow colour with bell shaped symbol, when pressed, shall activate the alarm hooters and register the alarm condition through Remote Monitoring System at the SCR / CC room or as per requirement of employer and also provide Audio visual indication at all Landings for the Alarm. A red "Car Overload" indicating lamp with buzzer in both Hindi and English Language.	SS Hairline Finish shall be 304 grade but hairline finish is not scratch resistant. Car overload indication will be only in English, while announcement can be in Hindi & English both.	Please follow Tender Condition.
242	Volume-4	41	6.12.1	Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix display.	We shall provide 7" TFT display instead of dot matrix display	Please Refer Addendum-1
243	Volume-4	42	6.16.1	Door frames shall be of at least 1.5 mm thick scratch resistant stainless steel in hairline finishes and shall comprise head and jamb sections of the same material	The stainless steel finish if mentioned as hairline finish anywhere in the tender shall not be scratch resistant. Please confirm whether we have to consider scratch resistant stainless steel or Stainless Steel hairline finishes	It will be dealt during design stage. Please follow Tender Conditions
244	Volume-4	44	6.16.3	Prior to the car's arrival, the hall lantern shall begin flashing/ illuminate and the chime shall sound twice.	The chime shall sound once before car arrival	Please follow Tender Condition.
245	Volume-4	47	6.18.3.1	There shall be provision of LED lights inside the Shaft & in undercut of car base which can be controlled from the top landing & from pit. It should have an intensity of 200 Lux at floor level	CFL light below car frame is possible, minimum lux level shall be applicable when car is at its ground/bottom floor level	Please follow Tender Condition.
246	Volume-4	50	6.19.14	All wiring and apparatus shall be subject to acceptance and suitable for the specified electrical supply. The insulation of all wiring including those within the controller shall be of flame retardant, low smoke halogen free (FRLS/SH) type for underground stations only and FRLS for elevated stations complying with the special cable requirement of this Specification. (All wires shall be FR type and cables shall be FRLS type.)	Please provide the details for underground and elevated station details for No of Elevators each station	4 nos. of Elevators at each underground station and 3 nos. of Elevators at each Elevated Station has been considered
247	Volume-4	51	6.20.1	The PC (Computer system) for RMS will be provided by the escalator contractor KNPAGE-04. The Elevator Contractor shall provide / receive the following status monitoring points and control points to the RMS with all necessary software and hardware including Graphics & Software for presentation of Lift running Status and other details on the PC	Please confirm the RMS shall be provided by Escalator or Elevator contractor. Also please confirm for complete RMS system should be installed at each station or at any central location	Please follow Tender Condition
248	Volume-4	59	6.29.3.v	The Contractor shall conduct a thermal stress analysis of the glazing system, undertake thermal calculations and make due allowance for toughened glass.	We shall provide Certificate from Glass mfg. company instead of performing thermal test at our end. This will be more suitable and accurate results by obtaining test certificate from manufacturing company of glass.	Please follow Tender Condition



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UPMRC S/No.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
249	Volume-4	61	6.30.6	Fire retardant materials shall meet the requirements of item (c), (d), (e), (f) and (g) only. The above tests shall be certified from independent Test Lab & submitted within one and half year from the date of signing of the LOA. The test sample cable shall be taken from material of assigned elevator in Kanpur & Agra MRTS only. These tests may be witnessed by UPMRC Representative.	Please suggest, if the test is to be done within one and half year and the sample cable shall be taken from material of assigned elevator, since the material at site shall be delivered in adequate quantity as per GAD, then how it will be possible to take sample from the material.	Please follow Tender Condition
250	Volume-4	61	6.30.2	All Control cables shall be rated for minimum grade of 650V and all power cables for minimum grade of 1000V.	Control cable shall be 300V grade	Please follow Tender Condition
251	Volume-4	62	6.31	Noise Generation	Noise levels specified shall be with tolerance on noise decibel values of +/- 10%	Please follow Tender Condition
252	Volume-4	62	6.32	Ride comfort Parameters, maximum lateral (x,y) 12 pk to pk	A95 values shall be 12 Gal for x,y and Pk to Pk shall be 15 Gal (Roller guide shoes are required)	Please follow Tender Condition
253	Volume-4	76	8.1.2	The Contractor shall prepare and submit drawings, which clearly illustrate details of equipment down to sub-assembly and component level, equipment locations and configurations. Drawings shall indicate plan views, elevations, sections, charts, tables, schematics and diagrams with legends, dimensions, part numbers, tolerances, setting clearances, materials, etc., as required to cover the facilities being provided under the Contract. Drawings shall also be prepared showing circuit wiring for each of the systems included in the Contract.	Non Intellectual Property specific data can be shared. Layouts, and general documentation shall be submitted. As design is Intellectual Property of thyssenkrupp, this cannot be provided.	Please follow Tender Condition
254	Volume-4	53	6.2.1.5	The requirement of ARD will be finalized during the design stage depending upon availability of power from DG set.	As per the clause, we need to understand the consideration of ARD while quoting	Please follow Tender Condition
255	General Queries		General Queries	CCTV	Please confirm for the provision of CCTV travelling cable to be considered in elevators or not	It will be dealt during design stage. Please follow Tender Conditions
256	General Queries		General Queries	Seismic Sensors	Please confirm for the provision of seismic sensors to be considered in elevators or not.	It will be dealt during design stage. Please follow Tender Conditions
257	General Queries		General Queries	Storage & Watch and Ward of materials	As per Appendix 2A, storage shall be provided by NCRTC free of cost, but the location for material storage is far from each station. Please clarify the support which shall be provided to OEM for transport of material from storage to each station for ITC. Also ward and ward scope	Query is not clear, bidder has used NCRTC instead of UPMRC. Please follow tender condition.
258	General Queries		General Queries	Electrical supply for ITC, Single and three phase	Single phase and three Power supply for ITC shall be in client scope free of cost	Please follow Tender Condition
259	General Queries		General Queries	Station Drawings	The architectural drawing of some approx 7 station are missing, please provide the CAD file all station drawing. PDF file is not readable.	Station drawing will be provided after award of the contract
260	Volume-2 GCC	16	4.2.1 Performance Security Amount	Performance security Amount (i) Within 30 days of receipt of the Letter of Acceptance, the successful Tenderer shall furnish Performance Security in the form of a bank guarantee from a scheduled Indian/Foreign bank in India acceptable to the Employer for an amount of ten per cent of the Contract value in types and proportions of currencies in which the Contract Price is payable. The approved form provided in the "Instructions to Tenderers" documents or any other form approved by the Employer shall be used for Bank Guarantee. The Bank Guarantee shall be valid up to 3 months beyond the Defect Liability Period. In case the contract value exceeds beyond 25% of the original contract value, the contractor shall have to submit additional performance security. (ii) No additional performance security will be required if the variation is within 25% of the original contract value.	(i) The Bank Guarantee shall be valid up to the Defect Liability Period. (ii) Additional validity period of 3 months shall not be acceptable.	Please follow Tender Condition



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UPMRC Sl.no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
261	Volume-2 GCC	16	4.2.4 Guarantees and Warranties	<p>Guarantees and Warranties Within 30 days of the date of Letter of Acceptance of the Tender, the Contractor shall submit to the Employer:</p> <p>(a) An Undertaking in the approved format from a parent company, the identity of which shall have been submitted in writing to the Employer prior to acceptance of the Tender and against which the Employer shall have raised no objection.</p> <p>(b) A written Guarantee in the approved format from a parent company, the identity of which shall have been submitted in writing to the Employer prior to acceptance of the Tender and against which the Employer shall have raised no objection.</p> <p>(c) A warrantee in the approved format from the Contractor.</p> <p>In the event that the Contractor shall comprise two or more members, corporations acting in partnership, joint venture, consortium or otherwise each such member or corporation shall submit a parent company Undertaking and Guarantee.</p> <p>Notwithstanding any other provision of the Contract:</p> <p>(a) Submission by the Contractor of the requisite performance security, parent company Undertakings and written Guarantees shall be condition precedent to the Contractor's entitlement to any payment, under the Contract; and</p> <p>(b) Failure by the Contractor to provide a Performance security or parent company Undertakings or parent company Guarantees shall entitle the Employer either to suspend the Works or to terminate the Contract forthwith by notice in writing to that effect, notwithstanding that the Contractor may have been permitted to proceed with the Works, and the Contractor shall not be entitled to any compensation whatsoever as a consequence of such suspension or termination.</p>	<p>Bidder's Clarification</p> <p>We shall submit Performance Security in form of Bank Guarantee for an amount of 10% of the contract amount. No additional parent company guarantees or parent company undertaking and other sureties in form Bank Guarantees (excluding Advance payment Bank Guarantee) or in form of cash shall be acceptable. Below clause to be deleted.</p>	<p>If single Indian entity is bidding then Parent Company Undertaking & Parent Company Guarantee is not applicable.</p>
262	Volume-2 GCC	42	8.5 Liquidated Damages for Delay	<p>Liquidated Damages for Delay Time is the essence of the contract and therefore if the work is delayed on account of the contractor, liquidated damage shall generally be 0.5% of the contract value per one week delay with an upper limit of generally 10% of the contract value.</p>	<p>Liquidated Damages for Delay Time is the essence of the contract and therefore if the work is delayed on account of the contractor, liquidated damage shall generally be 0.5% of the contract value per one week delay with an upper limit of 5% of the contract value or delayed units/incomplete works.</p>	<p>Please follow Tender Condition</p>
263	Volume-2 GCC	44	10.1 Defects Liability	<p>Defects Liability "Defects Liability Period" shall mean the defects liability period stated in the Special Conditions of Contract calculated from the date of taking over of the Works or sub-systems or component of that part has been replaced, renewed or repaired except minor repair, the "Defects Liability Period" in respect of that part or sub-system or components of that part shall start from the date such replacement, renewal or repair has been completed to the satisfaction of the Engineer.</p>	<p>Defects Liability "Defects Liability Period" shall mean the defects liability period stated in the Special Conditions of Contract calculated from the date of taking over of the Works on pro-rata basis unit by unit. Provided that, if any part of the Works or sub-systems or component of that part has been replaced, renewed or repaired except minor repair, the "Defects Liability Period" in respect of that part or sub-system or components of that part shall start from the date such replacement, renewal or repair has been completed to the satisfaction of the Engineer.</p>	<p>Please follow Tender Condition</p>
264	Volume-2 GCC	46	11.1.1 Contract Price and Payment	<p>Contract Price and Payment i) Unless otherwise stated in the Special Conditions of Contract the Contract Price, subject any to any adjustment thereto in accordance with the Contract shall be all inclusive (including all taxes, duties, royalties etc.) except: Value Added Tax (VAT) paid under UP VAT act 2005 where work is done in Uttar Pradesh and also Value added tax (VAT) paid under other State Govt VAT act if work is done in that state.</p>	<p>Contract Price and Payment i) Unless otherwise stated in the Special Conditions of Contract the Contract Price, subject any to any adjustment thereto in accordance with the Contract shall be all inclusive (including all taxes, duties, royalties etc.) except: Goods and Service Tax</p>	<p>Please refer SCC clause 24 which has already replaced GCC clause 11.1.1(i)</p>
265	Volume-2 SCC	5	7. Sub-Clause. 4.2.4 Guarantees, Warranties & Undertakings	<p>Guarantees, Warranties & Undertakings The forms of Performance Guarantee, Parent Company Undertaking, Contractor's Warranty, Sub-Contractor's Warranty, Advance Payment Guarantee, Indemnity Bond and Safe Custody Guarantee shall be in the formats given in the Schedules 2, 3, 4, 5, 6, 7, 8 and 9 respectively to these Special Conditions of Contract. All these Guarantees and Undertakings should be submitted before signing of the contract agreement except Sub-Contractor's Warranty, Advance Payment Bank Guarantee, Indemnity Bond and Safe Custody Bank Guarantee which will be required as per contract conditions. Even if not described or stated in the Requirements and the Contractor's Technical Proposals, the Contractor shall carry out and complete the design of the Works, including the selection of specifications for the kind and standard of Plant, Materials and workmanship to be used therein.</p>	<p>Guarantees, Warranties & Undertakings The forms of Performance Guarantee, Contractor's Warranty, Sub-Contractor's Warranty, Advance Payment Guarantee, Indemnity Bond shall be in the formats given in the Schedules 2, 3, 4, 5, 6, 7, 8 and 9 respectively to these Special Conditions of Contract. All these Guarantees and Undertakings should be submitted before signing of the contract agreement except Sub-Contractor's Warranty, Advance Payment Bank Guarantee, Indemnity Bond which will be required as per contract conditions. Even if not described or stated in the Employer's Requirements and the Contractor's Technical Proposals, the Contractor shall carry out and complete the design of the Works, including the selection of specifications for the kind and standard of Plant, Materials and workmanship to be used therein.</p>	<p>Agreed, if single Indian entity is bidding then Parent Company Undertaking & Parent Company Guarantee is not applicable.</p>



Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
266	Volume-2 SCC	15	23. Sub Clause 10.0 Defect liability period	<p>Defect liability period shall be 24 months from the date of issue of taking over certificate. During the Defects Liability Period the Contractor shall provide, free of cost, competent and skilled personnel and maintain adequate stock of spares so as to promptly fulfil his obligations during the Defects Liability Period as laid down in GCC and Employer's Requirements. A penalty of Rs.10000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs.</p>	<p>Defect liability period shall be 24 months from the date of issue of taking over certificate on pro-rata basis unit by unit. During the Defects Liability Period the Contractor shall provide, free of cost, competent and skilled personnel and maintain adequate stock of spares so as to promptly fulfil his obligations during the Defects Liability Period as laid down in GCC and Employer's Requirements. A penalty of Rs.1,000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs.</p>	Please follow Tender Condition
267	Volume-2 SCC	17	25. Sub Clause 11.1.3 Price Variation	<p>Price Variation Following is added to GCC sub Clause 11.1.3 Prices quoted by the tenderer shall be fixed throughout the contract and not subject to variation of any account except where specifically mentioned in the price variations formula to be made applicable.</p>	<p>Price Variation Following is added to GCC sub Clause 11.1.3 Prices quoted by the tenderer shall be fixed throughout the contractual period subject to variation of any account except where specifically mentioned in the contract conditions along with the price variations formula to be made applicable. The prices quoted under this bid shall remain firm for the contractual period/upto to the project duration. Any further delay affecting the Delivery and or installation period shall account for price revision and such revised prices shall be quoted separately/paid by mutual consent.</p>	Please follow Tender Condition
268	Volume-2 SCC	17	26. Sub Clause 11.2.1 Mobilisation Advance	<p>Mobilisation Advance Mobilisation advance shall be equal to 10% of the contract value. In Design & Build Contracts, the second instalment will be paid after approval of prototype test.</p>	<p>Mobilisation Advance Mobilisation advance shall be equal to 10% of the contract value. The advance shall be paid in two instalments of 5% each. In Design & Build Contracts, the second instalment will be paid after approval of Definitive design and acceptance of prototype test. In case of BOQ contracts, the second instalment will be paid after satisfactory utilization of earlier instalment for the contract after achieving the key date of detail engineering & submittal of technical proposal of major equipments. Incidentally this also forms a key date against which there is no provision of separate payment. Technical proposal of equipments is submitted after the contractor has generally firm up the equipment & vendor. Mobilisation Advance shall be paid against acceptable Bank Guarantee of the contractor, from a scheduled commercial bank in India. In case of advance, the contractor, once the 50% of advance has been recovered, shall have a onetime option to reduce the Bank Guarantee for the mobilisation advance by the amount recovered.</p>	Please follow Tender Condition
269	Volume-2 SCC	21	40. Additional Clause Retention Money	<p>Retention Money Retention money equal to 10 percent of the amount due to the Contractor from each on account payment will be retained, so as to maintain a reserve in the hands of the Employer equal to 5 percent of the Contract Price. The Retention money shall be held by the Employer without obligation to invest them or account for interest thereon or to place them in a designated account. No interest of whatsoever nature and type will be payable by the Employer in respect of Retention monies. Retention money shall become due to the Contractor on the date of issue of the Taking Over Certificate of works in respective sections/corridors.</p>	<p>Deduction of Retention money from running accounts payments or at any stage of contract shall not be acceptable.</p>	Please follow Tender Condition



Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
270	Volume-2 SCC	25	46. Additional Clause Stage Payment	<p>Stage Payment</p> <p>a) Application for payments in respect of part deliveries of completed items may be made by the contractor as the work proceeds.</p> <p>b) Notwithstanding anything stated herein the employer's representative retains the right to withhold payment on any item due for payment when the services it to be performed is not performed, or it not carried to satisfaction of employers satisfaction.</p> <p>c) Stage Payment shall be made as under:</p> <p>For the item where rate of supply given separately, the payment shall be in two stages i.e. 85% after delivery of materials at site and 15% after successful testing & commissioning & handing over.</p>	<p>Recommended Payment Terms:</p> <p>Imported Equipment's:</p> <p>For Supply (Import):</p> <p>100% Material value through Letter of Credit (LC) payable at sight, LC shall be opened on approval of GAD/manufacturing start notice.</p> <p>For Installation of Import units:</p> <p>1) 10% Advance along with Order.</p> <p>2) 40% against receipt of material at site on pro-rata basis.</p> <p>3) 40% against completion of installation at site on pro-rata basis.</p> <p>4) 10% against testing and commissioning on pro-rata basis.</p> <p>Any variation in Custom duties, Indirect taxes and forex exchange/currency fluctuation shall be in client scope.</p> <p>For Supply, Installation, testing and commissioning of Indian equipment's:</p> <p>1) 20% contract amount shall be paid/payable as an interest-free and non-recoverable Advance along with order and against submission of equivalent value advance bank guarantee (ABG), ABG shall valid up to the material delivery/dispatch on pro-rata basis.</p> <p>2) 10% of contract amount shall be paid against approval general arrangement drawing (GAD) on pro-rata basis.</p> <p>3) 30% of contract amount shall be paid against production start notice on pro-rata basis.</p> <p>4) 30% of contract amount shall be paid against material delivery at site on pro-rata basis.</p>	<p>Please follow Tender Condition</p>
271	Volume-2 SCC	28	58. Additional Clause Safe Custody Bank Guarantee	<p>Safe Custody Bank Guarantee</p> <p>(Applicable for items specifically mentioned in the contract).</p> <p>The Contractor shall submit a Safe Custody Bank Guarantee in the format given in Schedule 9 against payments made for Plant and Equipment delivered to Kanpur & Agra. The amount of safe custody Bank Guarantee shall be equal to 95% percent of the amount due as per the relevant clause of (BOQ) wherever applicable. The value of the Safe Custody Bank Guarantee would be adjusted for the equipments already commissioned.</p>	<p>Clause to be deleted.</p>	<p>Please follow Tender Condition</p>



Reply to Pre-Bid Queries KNPAGE-03

Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators Including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03

UPMRC Sl no.	Section	Page no.	Clause No.	Existing Clause	Bidder's Clarification	UPMRC's Reply
272	Volume-7 BOQ	15	3. TERMS OF PAYMENT	<p>3.1. In accordance with the provisions of SCC Clause 24, the Employer will pay the Contractor in the following manner and at the following times on the basis of the Prices given in the Statement of Prices. Retention money will be deducted from the payments due in accordance with the Conditions of Contract.</p> <p>3.2. Payments will be made to the Contractor in the INR currency only Notwithstanding anything stated herein the "Engineer" retains the right to withhold payment on any pay item due for payment when the service to be performed is not performed, or is not carried out to the "Engineer's" satisfaction.</p> <p>3.3 Statement of Prices 2A, 2B, 1.2 – Design, and Manufacture of Machine-Room Less Elevators ex-Works India. The amount entered shall be the total price to be paid for the design, manufacture and/or procurement of all Machine-room Less Elevators together with all ancillary equipment and components to be supplied Ex-Works India.</p> <p>Shall be full compensation for all direct and incidental costs relating to the Works in Statement No. 2. Payment shall be made on the basis of: 100% of Statement of Price 2A 1 of Milestone price for each Machine-Room Less Elevator shall be payable when a "Notice of No Objection" or "Notice of No Objection subject to" has been issued by the "Engineer" in respect of the design and other documents (RAM report etc.) for each Machine-Room Less Elevator. In each Section. Compensation shall include for the preparation, submission, and all subsequent revisions, changes required and re-submittals as necessary during the design phase as required by the "Engineer" for; all plans and programmes, documents, drawings, design calculations, test procedures, interface co-ordination meetings during design phase, schedules, safety, and quality plans, etc. 95% Statement of Prices 2B 2 of the Ex-Works price for each Machine-Room Less Elevator shall be payable after evidence of loading on to the mode of transport to be used to convey the plant and equipment from the works to storage in Kanpur/Agra and upon endorsement of the despatch documents in favour of the Employer and delivery to the "Engineer" of:</p> <p>Proof of despatch;</p> <ul style="list-style-type: none"> - certificate of type tests; - provision of Factory Acceptance tests; - provision of Safe Custody Guarantee or Indemnity Bond as per clause 45 of SCC; - proof of inland transport insurance; <p>shall be payable after Commissioning of each elevator.</p> <p>Compensation shall include for establishing and carrying out design and co-ordination, manufacture/procurement;</p>	<p>Recommended Payment Terms: Imported Equipment's: For Supply (Import): 100% Material value through Letter of Credit (LC) payable at sight; LC shall be opened on approval of GAD/manufacturing start notice. For Installation of Import units: 1) 10% Advance along with Order. 2) 40% against receipt of material at site on pro-rata basis. 3) 40% against completion of installation at site on pro-rata basis. 4) 10% against testing and commissioning on pro-rata basis.</p> <p>Any variation in Custom duties, Indirect taxes and forex exchange/currency fluctuation shall be in client scope.</p> <p>For Supply, Installation, testing and commissioning of Indian equipment's: 1) 20% contract amount shall be paid/payable as an interest-free and non-recoverable Advance along with order and against submission of equivalent value advance bank guarantee (ABG), ABG shall valid up to the material delivery/dispatch on pro-rata basis. 2) 10% of contract amount shall be paid against approval general arrangement drawing (GAD) on pro-rata basis. 3) 30% of contract amount shall be paid against production start notice on pro-rata basis. 4) 30% of contract amount shall be paid against material delivery at site on pro-rata basis. 3) 05% of contract amount shall be paid against installation at site on pro-rata basis.</p>	<p>Please follow Tender Condition</p>
273			General Queries	<p>BG formats</p>	<p>Please review our BG format vetted from bank for submission.</p>	<p>Please follow Tender Condition</p>



Volume	Portion	Page	Clause	Existing para / sub- para/ clause	Amendments					
					Add	Delete	Modified	Modified para/ / sub- para/ clause/ New Clause		
Volume-1	NIT	2	1.1.2Key Details	Date & time of Submission of Tender Date & time of opening of Tender	03.11.2020 up to 15:00 Hrs. 03.11.2020 @15:30 Hrs.			√	Date & time of Submission of Tender Date & time of opening of Tender	18.11.2020 up to 15:00 Hrs. 18.11.2020 @15:30 Hrs.
Volume-1	NIT	9	1.1.4.2(A)	Work Experience: “The tenderers will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven years ending 30.06.2020”				√	Work Experience: “The tenderers will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven Ten years ending 30.06.2020 31.08.2020”	
Volume-1	NIT	10	1.1.4.2(B)	Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 years.				√	Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 <u>10</u> years.	
Volume-1	NIT	11	Note	Note 3. Value of successfully completed portion of any on-going work up to 30.06.2020 will also be considered for qualification of work experience criteria. 4. For completed works, value of work done shall be updated to 30.06.2020 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR				√	Note 3. Value of successfully completed portion of any on-going work up to 30.06.2020 31.08.2020 will also be considered for qualification of work experience criteria 4. For completed works, value of work done shall be updated to 30.06.2020 31.08.2020 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR	
Volume-1	NIT	13	1.1.4.3	A = Maximum of the value of works executed in any one year during the last five financial years (updated to 30.06.2020 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year). B = Value of existing commitments (as on 30.06.2020) for on-going works during period of 36 months w.e.f. 01.07.2020 Note Value of existing commitments for on-going construction works during period of 36 months w.e.f. 01.07.2020 has to be submitted by the tenderer in Annexure-3B. These data shall be certified by the Chartered Accountant with his stamp and signature.				√	A = Maximum of the value of works executed in any one year during the last five financial years (updated to 30.06.2020 31.08.2020 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year). B = Value of existing commitments (as on 30.06.2020 31.08.2020) for on-going works during period of 36 months w.e.f. 01.07.2020 01.09.2020 Note Value of existing commitments for on-going construction works during period of 36 months w.e.f. 01.07.2020 01.09.2020 has to be submitted by the tenderer in Annexure-3B. These data shall be certified by the Chartered Accountant with his stamp and signature.	
Volume-1	NIT	15	Annexure-1	In equivalent INR at as on 30.06.2020 price level				√	In equivalent INR at as on 30.06.2020 31.08.2020 price level	
Volume-1	NIT	18	Annexure 3B work in Hand	Value of balance work yet to be done in Rupee equivalent as on 30.06.2020				√	Value of balance work yet to be done in Rupee equivalent as on 30.06.2020 31.08.2020	
Volume-1	NIT	22 & 23	Annexure-5 PQ checklist	4. Specific Work Experience Has the Applicant completed the work as below during last seven years ending 30.06.2020: 5. Experience of heavy duty Elevators Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like				√	4. Specific Work Experience Has the Applicant completed the work as below during last seven <u>Ten</u> years ending 30.06.2020 31.08.2020; 5. Experience of heavy duty Elevators Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail,	

Volume	Portion	Page	Clause	Existing para / sub- para/ clause	Amendments			
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				Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 years				Railways, Airport or large commercial complexes successfully completed during last 7 10 years
Volume-1	Annexure of ITT	24	Annexure-4 Appendix-G	<p>(a) Chief Project Manager– Engineering Graduate having minimum 12 years of total experience out of which 5 years should be in projects of similar nature.</p> <p>(b) Project Manager – Engineering Diploma having minimum 8 years of total experience out of which 4 years should be in projects of similar nature.</p> <p>(c) Design Engineer, Production Engineer, Elevator Specialist and Mechanical Engineer – Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in project of similar nature.</p> <p>(d) Installation Specialist – Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in projects of similar nature. Deployment 60 days before start of the respective activities.</p> <p>(e) SHE Organisation– As per the qualification and experience given in General Instruction – 2 of UPMRC SHE manual (shall include an Accident Prevention Officer).</p> <p>(f) Civil & Structural Engineer – Engineering Diploma having minimum 5 years of total experience out of which 2 years should be in projects of similar nature.</p>			√	<p>(a) Chief Project Manager– Engineering Graduate having minimum 12 years of total experience out of which 5 years should be in projects of similar nature. Deployment within 30 days of award of contract till contact closer.</p> <p>(b) Project Manager – Engineering Diploma having minimum 8 years of total experience out of which 4 years should be in projects of similar nature. Deployment at site within 30 days of award of contract till contact closer.</p> <p>(c) Design Engineer, Production Engineer, Elevator Specialist and Mechanical Engineer Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in project of similar nature. Deployment within 30 days of award of contract till final design is approved.</p> <p>(d) Installation Specialist – Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in projects of similar nature. Deployment 60 days before start of the respective activities. Deployment 60 days before start of the respective activities.</p> <p>(e) SHE Organisation– As per the qualification and experience given in General Instruction – 2 of UPMRC SHE manual (shall include an Accident Prevention Officer). Deployment 60 days before start of the respective activities.</p> <p>(f) Civil & Structural Engineer – Engineering Diploma having minimum 5 years of total experience out of which 2 years should be in projects of similar nature. Deployment 60 days before start of the respective activities.</p>
Volume-1	ITT	19	C 7.2	The design of the Works shall be undertaken by a designer or the design wing of the tenderer (the Designer) who has experience in the design of similar works as in scope of tender. Approval of the proposed Designer intended to be engaged shall be obtained from UPMRC before engaging the Designer by the contractor.			√	The design of the Works shall be undertaken by a designer or the design wing of the tenderer (the Designer) who has experience in the design of similar works as in scope of tender. Approval of the proposed Designer intended to be engaged shall be obtained from UPMRC before engaging the Designer by the contractor.
Volume-2	SCC	16	24 of SCC 11.1.1	e) Tenderers shall submit an undertaking that neither they nor their sub-contractors / sub-vendors shall avail the deemed export benefit as the same shall be availed directly by UPMRC and retained.			√	<p>(e) The bidder shall be eligible for availing concessional duty benefits under Chapter 98.01 of Customs Tariff Act for Project imports. After award of contract, at the written request of the Contractor, UPMRC can facilitate the contractor with sponsoring/recommendation letter for getting themselves registered for availing the Project Import Benefits. The contractor shall also ensure completion of all formalities including closer of Project Import etc., if any, with the custom authorities in terms of the Regulations.</p> <p>In case deemed export benefits are available, at any stage during execution of the contract, the contractor shall be required to avail the same and pass on the benefits to UPMRCL, for availing the said benefits, necessary documents in accordance with the laws of the land and extant policies of the Government of India shall be followed by the contractor and in such cases, prices will be adjusted and paid accordingly.</p>

Volume	Portion	Page	Clause	Existing para / sub- para/ clause	Amendments			
					Add	Delete	Modified	Modified para/ / sub- para/ clause/ New Clause
Volume-3	GS (Chapter-5)	5-1 of 7	5.1.1	The Contractor shall maintain and implement a Quality Management System that shall remain in effect during the execution of the Works. The Contractor's Quality Management System shall be based on the International Standard ISO 9001/9002:2000			√	The Contractor shall maintain and implement a Quality Management System that shall remain in effect during the execution of the Works. The Contractor's Quality Management System shall be based on <u>latest edition</u> of the International Standard ISO 9001/9002:2000 / <u>ISO 9001:2015</u>
Volume-4	ERPS (Chapter-6)	33	6.8.2	Car Frame A suitable car frame fabricated from galvanized cold rolled steel, bolted, or welded together to form a rigid structure shall be provided. The deflection of the members carrying the platform shall not exceed 1/1000th of their span under static conditions with the rated load uniformly distributed over the platform. It shall be able to withstand the operation of the safety gear or any condition loading without permanent deformation and shall not transfer the load to the enclosure. The safety factor of the frame shall not be less than five (5).			√	Car Frame A suitable car frame fabricated from galvanized cold <u>or hot</u> rolled steel, bolted, or welded together to form a rigid structure shall be provided. The deflection of the members carrying the platform shall not exceed 1/1000th of their span under static conditions with the rated load uniformly distributed over the platform. It shall be able to withstand the operation of the safety gear or any condition loading without permanent deformation and shall not transfer the load to the enclosure. The safety factor of the frame shall not be less than five (5).
Volume-4	ERPS (Chapter-6)	34	6.8.4	Car Platform The car platform shall be constructed from spray galvanized cold rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer"			√	Car Platform The car platform shall be constructed from spray galvanized cold <u>or hot</u> rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer"
Volume-4	ERPS (Chapter-6)	61	6.30.3	The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 2			√	The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class-2 / <u>IS 8130</u> .
Volume-4	ERPS (Chapter-6)	61	6.30.4	The insulation shall consist of an extruded layer of cross-linked polyethylene complying with IEC 502.			√	The insulation shall consist of an extruded layer of cross-linked polyethylene complying with IEC 502/ <u>IS 7098 Part 1</u>
Volume-4	ERPS (Chapter-6)	61	6.30.6(a)	Special Cable Requirements London Transport Executive Three Meter Cube Smoke Emission Test, using optical measuring instruments. The maximum value of absorbance AO (ON), AO (OFF) shall be 0.8 & 1.2 respectively.			√	London Transport Executive Three Meter Cube Smoke Emission Test, using optical measuring instruments. The maximum value of absorbance AO (ON), AO (OFF) shall be 0.8 & 1.2 respectively or Cables confirming to IEC 61034 / ASTM 2843-2010 can also be used.
Volume-4	ERPS (Chapter-6)	61	6.30.6(b)	The US National Bureau of Standard Smoke Chamber Test, used to evaluate plaque samples of materials of constant thickness (NFPA-258 Smoke Generation of Solid Materials 1982). The maximum specific optical density shall 170 under the non- Polluted condition			√	The US National Bureau of Standard Smoke Chamber Test, used to evaluate plaque samples of materials of constant thickness (NFPA-258 Smoke Generation of Solid Materials 1982). The maximum specific optical density shall 170 under the non-Polluted condition or The maximum smoke density value shall be in percent of light absorbance as per IEC 61034-2-2013 and method as per ASTM 2843 - 2010.
Volume-4	ERPS (Chapter-6)	61	6.30.6(c)	The flame propagating criteria of US IEEE Standard 383, with a minimum test short circuit time of five minutes, in the IEEE Standard 383 test.			√	The flame propagating criteria of US IEEE Standard 383/ IEC 60332 Part 1, with a minimum test short circuit time of five minutes, in the IEEE Standard 383/ IEC 60332 Part 1. Test.
Volume-4	ERPS (Chapter-8)	77	8.2	Endorsement Requirement All drawings, calculations, test certificates, technical information, data and analysis submitted in this Contract shall be endorsed by the Contractor's registered Professional Engineer. The design certificate & drawings shall confirm to Performa (Refer clause 4.7 of PS).			√	Endorsement Requirement All drawings, calculations, test certificates, technical information, data and analysis submitted in this Contract shall be endorsed by the Contractor's <u>registered</u> Professional Engineer. The design certificate & drawings shall confirm to Performa (Refer clause 4.7 of PS).

Volume	Portion	Page	Clause	Existing para / sub- para/ clause	Amendments			
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Volume-4	ERPS (Chapter-6)	41	6.12.1	The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws. This plate should be pilfer proof. Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix display. There shall also be an arrow in motion vividly and dynamically indicating car movement and direction. It shall also be capable of displaying simple message such as, floor names like "Concourse, Platform", " Out of service", under maintenance", "This landing is not in Use" etc. The surface of the display unit shall be non-glare type.			√	The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws. This plate should be pilfer proof. Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix /LCD display. There shall also be an arrow in motion vividly and dynamically indicating car movement and direction. It shall also be capable of displaying simple message such as, floor names like "Concourse, Platform", " Out of service", under maintenance", "This landing is not in Use" etc. The surface of the display unit shall be non-glare type.
Volume-4	ERPS (Chapter-6)	47 to 48	6.18.6	An over speed governor shall be provided, which is capable of activating the safety gear in the event of the Elevator exceeding the rated speed. The tripping of the over-speed governor for the safety gear shall occur when the car speed exceeds 140 % of the rated speed downwards			√	An over speed governor shall be provided, which is capable of activating the safety gear in the event of the Elevator exceeding the rated speed. The tripping of the over-speed governor for the safety gear shall occur when the car speed exceeds 115% - 140 % of the rated speed downwards
Volume-4	ERPS (Chapter-6)	55	6.25.1	All steel components shall be hot dipped galvanized in accordance with BS 729, with minimum thickness of 85 µm.			√	All steel components shall be hot dipped galvanized in accordance with BS 729 / <u>ISO1461</u> , with minimum thickness of 85 µm.
Volume-4	ERPS (Chapter-6)	33	6.8.3(a)	The car enclose shall be fabricated from galvanised steel of not less than 1.5 mm in thickness or any other material where specified and securely fastened to the car platform and so supported that it cannot be loosened or become displaced in ordinary service or on the application of safety gear or on buffer engagement. The design of the final finishes of the walls, ceiling and floor is subject to the acceptance of the "Engineer".			√	The car enclose shall be fabricated from galvanised <u>scratch resistance stainless-steel</u> of not less than 1.5 mm in thickness or any other material where specified and securely fastened to the car platform and so supported that it cannot be loosened or become displaced in ordinary service or on the application of safety gear or on buffer engagement. The design of the final finishes of the walls, ceiling and floor is subject to the acceptance of the "Engineer".
Volume-7	BOQ	8	1.11 Tender Pricing	Existing para is (a) & (b)	√			(c) The price shall not be unbalanced. The price quoted under schedule statement - 1 (Design) shall not exceed 2% of the total quoted price. The combined cost of statement - 1, 2 & 3 should not exceed 75% of the total contract value. The cost of maintenance in statement-5 during Two years of DLP should not be less than 6% and should not be less than 3% for the third year in statement - 9. In event of non-compliance of above by the successful bidder, the employer shall readjust the cost of various schedules on pro-rata basis, keeping total cost same, which shall be binding on the bidder.

KNPAGE-03: "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

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NOTICE INVITING TENDER (NIT)

1.1 GENERAL

1.1.1 Name of Work:

Uttar Pradesh Metro Rail Corporation (UPMRC) Ltd., invites open tenders on Local Competitive basis from eligible applicants, who fulfil qualification criteria as stipulated in Clause 1.1.4 of NIT, for the work of Kanpur & Agra Metro Rail Project, "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

The brief scope of the work and site information is provided in ITT Clause A1 (Volume-1) & Employer's Requirements (Volume-3& 4)

1.1.2 Key details :

Approximate cost of work	Rs. 67 Crores
Tender Security amount	Rs. 67 Lakhs
Completion period of the Work	36 months
Tender documents on sale:	From 17.09.2020 to 08.10.2020 (between 09:30 hrs to 17:30 hrs) on working days
Cost of Tender documents	INR 23,600/- (inclusive of 18% GST) (Demand Draft on a scheduled commercial bank based in India in favour of "Uttar Pradesh Metro Rail Corporation Ltd") payable at Lucknow
Last date of Seeking Clarification	09.10.2020
Pre-bid Meeting	12.10.2020 @ 1500 Hrs
Last date of issuing addendum	27.10.2020
Date & time of Submission of Tender	03.11.2020 18.11.2020 upto 15:00 Hrs.
Date & time of opening of Tender	03.11.2020 18.11.2020 @ 15:30 Hrs.
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents.	Chief Electrical Engineer/Project-II Uttar Pradesh Metro Rail Corporation, Administrative Building, Vipin Khand, Gomti Nagar, Lucknow-226010 Email: loveleenkumar.cee@gmail.com



KNPAGE-03: "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

	Experience				
1	Specific work Experience	<p>Work Experience: <i>"The tenderers will be qualified only if they satisfy the Work Experience criteria for Similar Work** as given below during last seven Ten years ending 30.06.2020: 31.08.2020"</i></p> <p>At least One (1) "Similar Work"*** of value of Rs 53 Crores or more If the above "Similar Work"*** of value Rs 53 Crores or more has been done by the foreign partner of JV/ Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner.</p> <p style="text-align: center;">OR</p> <p>Two (2) "Similar Work"*** each of value of Rs 33 Crores or more If both the above the "Similar Work"*** of value Rs 33 Crores or more has been done by the foreign partner of JV/Consortium, then either at least one of these two work should have been done outside the country of the foreign partner and if not, then in addition to this the foreign partner must have done at least one Similar Work equal to value of Rs 27 Crores or more outside the country of the foreign partner.</p> <p style="text-align: center;">OR</p> <p>Three (3) "Similar Work"*** each of value of Rs 27 Crores or more If all the above three Similar Work of Rs 27 Crores or more or two out of three works have been done by foreign partner of JV, then either at least one of these three work should have been</p>	Must meet requirement	Must meet requirement	N/A



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KNPAGE-03: "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

		done outside the country of the foreign partner.			
2	Experience of heavy duty Elevators	<p>Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 <u>10</u> years.</p> <p>OR</p> <p>If the sole Tenderer or any/ all members of JV/Consortium constituting the Tenderer is / are from foreign country, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators in India or one country excluding the country of the origin. Similar Elevators implies elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes.</p>	Must meet requirement	Must meet requirement	N/A

Note:

1. Explanation to item1 Specific Work Experience:

** "Similar Work" for this Tender shall be "Design, Manufacturing, Supply, Installation, Testing and Commissioning of all types of passenger elevators"

- The tenderer shall submit details of work executed by them, in the Performa of **Annexure-1** for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. **The offers**



submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A. (Chartered Accountant), T.D.S. (Tax deducted at Sources) certificates for all payments received and copy of final/ last bill paid by client shall be submitted.

3. Value of successfully completed portion of any on-going work up to ~~30.06.2020~~ **31.08.2020** will also be considered for qualification of work experience criteria.
4. For completed works, value of work done shall be updated to ~~30.06.2020~~ **31.08.2020** price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. **Selling rate of exchange at the close of business of the State Bank of India on the day twenty eight days before the latest date of Tender Submittal shall be considered for calculating equivalent value in INR.**
5. In case of joint venture / Consortium, full value of the work, if done by the same joint venture shall be considered. However, if the qualifying work(s) were done by them in JV/Consortium having different constituents, then the value of work as per their percentage participation in such JV/Consortium shall be considered
6. **A JV /Consortium member can participate in only one of the bidding JV/Consortium.**
7. The Joint venture/Consortium agreement must contain a clause stating **"All the partners are jointly and severally liable to UPMRC"**

B. Financial Standing: The tenderers will be qualified only if they have minimum financial capabilities as below:

(i) **T1 – Liquidity:** The tenderer must have liquidity equal to cash flow requirement of value **Rs 3.2 Crore** for the contract.

- a) The liquidity shall be ascertained from Net Working Capital {Current Assets – (current liabilities + provisions)} as per latest audited balance sheet and/or from the Banking reference(s).
- b) Banking reference(s) should contain in clear terms the amount that the Bank will be in a position to lend for this work to the applicant. In case the Net Working Capital (as seen from the Balance Sheet) is negative, only the Banking reference(s) will be considered, otherwise the aggregate of the Net Working Capital and submitted Banking reference(s) will be considered for working out the Liquidity.
- c) The Banking references should be from a Scheduled Bank in India or acceptable to UPMRC as per the standard proforma provided in NIT as Annexure-6 and it should not be more than 3 months old as on the date of submission of bids.
- d) In Case of JV/Consortium: - Requirement of working capital is to be distributed between members as per their percentage participation and every member should satisfy the requirement for his portion.

Example: Let member-1 has percentage participation=M and member-2 has percentage participation=N. If minimum working capital required is 'W' then working capital of member-1 $\geq \frac{(WM)}{100}$ and working capital of member-2 $\geq \frac{(WN)}{100}$.

- e) In case the applicant is a Joint Venture/Consortium and if Banking Reference is issued by the bank in favour of the Joint Venture/consortium for this contract, then it will be considered for the tenderer and if the Banking reference(s) is issued in favour of any member of JV/Consortium it will be considered only for that member



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Available Bid Capacity = 2*A*N – B

Where,

A = Maximum of the value of works executed in any one year during the last five financial years (updated to ~~30.06.2020~~ **31.08.2020** price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year).

N = No. of years prescribed for completion of the work =3.0 years

B = Value of existing commitments (**as on ~~30.06.2020~~ 31.08.2020**) for on-going works during period of **36 months w.e.f. ~~01.07.2020~~ 01.09.2020**

Notes:

- Financial data for latest last five financial years has to be submitted by the tenderer in **Annexure-3A** along with audited financial statements. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original.
- Value of existing commitments for on-going construction works during period of **36 months w.e.f. ~~01.07.2020~~ 01.09.2020** has to be submitted by the tenderer in **Annexure-3B**. These data shall be certified by the Chartered Accountant with his stamp and signature.
- In the case of a group, the above formula will be applied to each member to the extent of his proposed participation in the execution of the work. If the proposed % is not provided, equal participation will be assumed.

1.1.4.4 The tender submission of Tenderers, who do not qualify the minimum eligibility criteria & bid capacity criteria stipulated in the clauses 1.1.4.1 to 1.1.4.2 above, shall not be considered for further evaluation and therefore rejected. The mere fact that the tenderer is qualified as mentioned in sub clause 1.1.4.1 to 1.1.4.2 shall not imply that his bid shall automatically be accepted. The same should contain all technical data as required for consideration of tender prescribed in the ITT.

1.1.5 The Tender documents consist of :

Volume 1

- Notice Inviting Tender (including Annexures)
- Instructions to Tenderers (including Annexures)
- Form of Tender (including Appendices)

Volume 2

- General Conditions of Contracts
- Special Conditions of Contract (including Schedules)

Volume 3

Employer's Requirements – General Specifications

Volume 4

Employer's Requirement- Technical Specifications

Volume 5

Not Used

Volume 6

Condition of Contract on Safety, Health & Environment (SHE)



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**ANNEXURE-1
WORK EXPERIENCE**

Applicant's legal name Date.....

Group Member's legal name..... Pageof pages

For similar works as per clause no. 1.1.4.2 (A) (considering escalation as per Notes no.4 - Clause 1.1.4.2 (A))

1.1.4.2 (A):- Work Experience (shall be submitted separately for each work claimed for work experience)		
Item	Information	
Contract Identification		
Award date		
Completion date		
Employer's Name		
Employer's Address:		
Telephone / Fax number: E Mail		
Role in Contract (Individual)	Individual	JV/Consortium Member
Completion Cost	Currency (as stated in Clients Certificate)	In equivalent INR at as on 30.06.2020 31.08.2020 price level
Quantum of similar work in support of clause no. 1.1.4.2A.	% participation	In equivalent INR at as on 30.06.2020 31.08.2020 price level
		In case of JV/consortium, actual works executed by the Applicant (duly substantiated with Client Certificate)

NOTE:

1. Only the value of contract as executed by the applicant/member in his own name should be indicated Where a work is undertaken by a JV/Consortium, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.
2. Separate sheet for each work along with Clients Certificate to be submitted.

Signature of the Applicant
Seal of the Applicant





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ANNEXURE- 3B WORKS IN HAND

Applicant's legal name Date.....

Group Member's legal name..... Pageofpages

Name and brief particulars of contract (Clearly indicate the part of the work assigned to the applicant(s))	Name of client with telephone number and fax number	Contract Value In Rupees Equivalent (Give only the value of work assigned to the applicant(s) (Assume inflation as given in Annexure 3)	Value of balance work yet to be done in Rupee equivalent as on 30.06.2020 31.08.2020	Date of Completion as per Contract Agreement	Expected Completion Date	Delay if any, with reason	Value of work to be done in 2020-21	Value of work to be done in 2021-22.	Value of work to be done in 2022-23	Value of work to be done in 2023-24

Signature of the Applicant
Seal of the Applicant



KNPAGE-03: "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

ANNEXURE-5

PREQUALIFICATION OF APPLICANT- CHECKLIST

S. No.	Criteria	Yes	No
1	Has Applicant have conflict of interest		
2	Has the Applicant on the date of submission of an application or of a bid or on the date of award of a contract, have been the subject of a conviction by final judgment for one of the reason given under para A3.8 of ITT.		
3	Any Non-performance of a contract occurred within the last two (2) years prior to the deadline for application submission.		
4	<p>Specific Work Experience Has the Applicant completed the work as below during last seven Ten years ending 30.06.2020 31.08.2020;</p> <p>At least One (1)"Similar Work"*** of value of Rs 53 Crores or more If the above "Similar Work"*** of value Rs 53 Crores or more has been done by the foreign partner of JV/ Consortium and was done in the country of the foreign partner then in addition to this work, the foreign partner must have done at least one Similar Work equal to or more than Rs 27 Crores outside the country of the foreign partner.</p> <p style="text-align: center;">OR</p> <p>Two (2) "Similar Work"***each of value of Rs 33 Crores or more If both the above the "Similar Work"*** of value Rs 33 Crores or more has been done by the foreign partner of JV/Consortium, then either at least one of these two work should have been done outside the country of the foreign partner and if not, then in addition to this the foreign partner must have done at least one Similar Work equal to value of Rs 27 Crore or more outside the country of the foreign partner.</p> <p style="text-align: center;">OR</p> <p>Three (3) "Similar Work"***each of value of Rs 27 Crores or more If all the above three SimilarWork of Rs 27 Crores or more or two out of three works have been done by foreign partner of JV, then either at least one of these three work should have been done outside the country of the foreign partner.</p>		



KNPAGE-03: "Design, Manufacturing, Supply, Installation, Testing and Commissioning of Heavy Duty Machine Room Less Elevators including Maintenance of 02 (two) Years during Defect Liability Period (DLP) and 01 (one) year comprehensive Annual Maintenance beyond DLP Period for Kanpur (Corridor I & II) & Agra (Corridor-I) Mass Rapid Transport System Project Phase-I under the Contract KNPAGE-03".

5	<p>Experience of heavy duty Elevators</p> <p>Experience of Design, Manufacture, Supply, Installation, Testing & Commissioning of at least 50 Elevators for the Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes successfully completed during last 7 10 years.</p> <p>If the sole Tenderer or any/ all members of JV/Consortium constituting the Tenderer is / are from foreign, then the member responsible for manufacturing & supplying of elevator should have an international experience of manufacturing and supplying minimum 40 similar elevators each in at least two countries excluding the country of the origin. Similar Elevators implies elevators for Public rapid transit system like Metro, LRT, Mono-rail, Railways, Airport or large commercial complexes.</p>		
6	Does the Applicant have minimum Liquidity of INR 3.2 Crore or more		
7	Does the Lead member have Profit before Tax Positive in at least 2 (two) years, out of the last five audited financial years.		
8	Does the Applicant having Net worth positive in last two financial year.		
9	Does the 'Average Annual Turn Over' of Applicant during the last five financial years is INR 17.9 Crore or more.		
10	Does the Applicant have Bid Capacity of INR 67 Crore or more		

Note:

1. A "YES" Answer to any question 1,2, 3 will disqualify the Applicant.
2. A " NO" Answer to any question 4, 5, 6, 7, 8, 9 & 10 will disqualify the Applicant.

Signature of Applicant



ANNEXURE - 4
APPENDIX G - PROJECT ORGANISATION
MINIMUM KEY STAFF REQUIREMENT

S. No	DESIGNATION	No
a	Chief Project Manager	1
b	Project Manager	2
d	Design Engineer	2
e	Production Engineer	2
f	Elevators Specialist	2
g	Mechanical Engineer	1
h	Installation Specialist	2
i	SHE Organisation	AS PER CONDITIONS OF SHE
j	Civil & Structural Engineer	1

- (a) **Chief Project Manager**– Engineering Graduate having minimum 12 years of total experience out of which 5 years should be in projects of similar nature. **Deployment within 30 days of award of contract till contact closer.**
- (b) **Project Manager** – Engineering Diploma having minimum 8 years of total experience out of which 4 years should be in projects of similar nature. **Deployment at site within 30 days of award of contract till contact closer.**
- (c) **Design Engineer, Production Engineer, Elevator Specialist and Mechanical Engineer**
– Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in project of similar nature. **Deployment within 30 days of award of contract till final design is approved.**
- (d) **Installation Specialist** – Engineering Diploma having minimum 5 years of total experience out of which 3 years should be in projects of similar nature. **Deployment 60 days before start of the respective activities.**
- (e) **SHE Organisation**– As per the qualification and experience given in General Instruction
– 2 of UPMRC SHE manual (shall include an Accident Prevention Officer). **Deployment 60 days before start of the respective activities.**
- (f) **Civil & Structural Engineer** – Engineering Diploma having minimum 5 years of total experience out of which 2 years should be in projects of similar nature. **Deployment 60 days before start of the respective activities.**

NOTES:

- i) The contractor shall deploy resources as per the above-mentioned minimum requirement and also confirm to deploy manpower over and above the minimum numbers indicated above, if the work requires so.
- ii) These minimum resources are as per the requirements of various activities at different stages of works. All resources need not to be mobilized simultaneously, resources as per the requirement of various stages of works shall be mobilized in accordance with the instructions of the engineer. The decision of the engineer in this regard, shall be final and binding.
- iii) Please note that in case UPMRC judges that the continuation of any person of the Tenderer including its subcontractor (s) is not in the interest of project, a written notice will be given to

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informative to define the Tenderer's safety plans and set out in summary an adequate basis for the development of the Site Safety, Health and Environment Plan to be submitted in accordance with Clause 12 & 13 of the SCC.

C5.3 The Tenderer may be requested by UPMRC in writing to amplify, explain or develop his Outline Safety, Health and Environment Plan prior to the date of acceptance of the Tender and to provide more details with a view to reaching provisional acceptance of such a plan.

C6 Tenderer's Technical Proposals

C6.1 The Tenderer shall submit as **Appendix-5 of Form of Tender** to form part of its Tender, the tenderer's Technical Proposals as described in Annexure 4 of ITT hereto.

C6.2 The Tenderer shall be required to amplify, explain and develop the Contractor's Technical Proposals in substantially greater detail during the tender evaluation period such that they may be confirmed as complying clearly with the Employer's Requirements-General Specifications, Employer's Requirements-Technical Specifications, Tender Drawings and Pricing Documents (Volume 3, 4, 5 and 7) and, in accordance with paragraph B4.2 herein, can be incorporated into the Contract. Only those aspects of the tenderer's Technical Proposal that the Employer (at his sole discretion) considers clearly conforming, will form part of the Contract. All this correspondence shall be in writing.

C6.3 The Tenderer shall provide a Bill of Quantity (BOQ) in the format given in Volume 7, to meet the entire scope of whole of works as stipulated in the Employer's Requirements. The BOQ total shall match with the lumpsum Contract price.

C6.4 Tenderer is required to sign and submit the **Annexure-9A of ITT** for Covenant of Integrity.

C7. Designer

C7.1 **The Tenderer should note the requirements of warranties and obligations contained in Clause 5.2 of GCC and clause 7 of SCC.**

C7.2 The design of the Works shall be undertaken by a designer or the design wing of the tenderer (the Designer) who has experience in the design of similar works as in scope of tender. ~~Approval of the proposed Designer intended to be engaged shall be obtained from UPMRC before engaging the Designer by the contractor.~~

C7.3 The Tenderer shall submit with his Tender either the proposed terms and conditions upon which the Designer would be appointed in the event of acceptance of the Tender (excluding the financial and commercial terms thereof) or at least a statement of the heads (salient features) of such an agreement. The Tenderer should note that, if heads of agreement are supplied with the Tender, the Tenderer may be required to develop such heads into a full agreement during the tender evaluation period and to submit the agreement in its final form prior to award of the Contract.

C7.4 The Tenderer shall confirm that the terms for engagement of the designer will include for certification of the As Build Drawings, and regular inspection of the works to confirm that the construction complies with the intent of the design.

C8. Tender proposed work Program

C8.1 The Tenderer shall submit with his Tender as Annexure-5 to ITT, a Tender Program



Details of Call – out visit / Break – down maintenance, etc. shall be maintained. Copy of relevant pages of the Log book to be submitted to the Engineer – in – charge with the Monthly status report.

- **Failure Analysis Report.**

The Contractor shall submit a report for the Failure Analysis in the format approved by the "Engineer" giving the details of the type of fault, cause of fault, analysis of faulty component, etc correlated with the details of last preventive maintenance activity performed.

24. Sub-Clause 11.1.1 Contract Price

Sub Clause 11.1.1 (i) of GCC is replaced as under:

(a) The contract price, subject to any adjustment thereto in accordance with the contract shall be inclusive of all taxes (except Goods and Services Tax – GST), duties, levies, cess, royalties, etc. and all other incidental charges required to fulfil the tender conditions.

(i) **(b) Goods and Services Tax (GST) is excluded in the contract price.** The contractor shall maintain details of GST paid to 'Trade and Taxes' department and the same shall be **reimbursed by UPMRC based on submission of:**

(i) Monthly Return of GST (GSTR-3B) of the contractor for the relevant period/periods along with detailed statement (GSTR 1 & GSTR 2) and copy of challans in regard to deposit of taxes for UPMRC project.

(ii) Certificate of the Chartered Accountant in regard to turnover of the contractor relating to UPMRC project and GST paid/adjusted through Input Tax Credit.

(c) Any taxes, duties, levies cess, which are required / may be required to be paid by the Employer in the fulfilment of the tender condition including on reverse charge basis should also be included by the tenderer in the Contract Price.

(d) Taxes and duties paid to the sub-vendors shall not be paid separately and therefore are to be included in the price.

(e) The bidder shall be eligible for availing concessional duty benefits under Chapter 98.01 of Customs Tariff Act for Project imports. After award of contract, at the written request of the Contractor, UPMRC can facilitate the contractor with sponsoring/recommendation letter for getting themselves registered for availing the Project Import Benefits. The contractor shall also ensure completion of all formalities including closer of Project Import etc., if any, with the custom authorities in terms of the Regulations.

In case deemed export benefits are available, at any stage during execution of the contract, the contractor shall be required to avail the same and pass on the benefits to UPMRCL, for availing the said benefits, necessary documents in accordance with the laws of the land and extant policies of the Government of India shall be followed by the contractor and in such cases, prices will be adjusted and paid accordingly.

(B) Record of Taxes Duties etc.

The Contractor shall maintain complete records in respect of payments made by them for taxes, duties, octroi, and other levies payable to various authorities (except Income Tax



CHAPTER 5

5. QUALITY MANAGEMENT

5.1 Introduction

- 5.1.1 The Contractor shall maintain and implement a Quality Management System that shall remain in effect during the execution of the Works. The Contractor's Quality Management System shall be based on **latest edition** of the International Standard ISO 9001/9002:2000 "Model for quality assurance in design, development, production, installation and servicing." The Contractor shall submit its Quality Management System documentation for the Employer's Representative's review as specified in this Chapter.

The Quality Management System documentation shall include, but shall not be limited to the following:

- (1) quality manual;
- (2) quality procedures and work instructions;
- (3) quality plans; and
- (4) inspection and test plans.

- 5.1.2 The Contractor shall plan, perform and record all quality control activities to ensure that all work is performed in accordance with the requirements of the Contract and is detailed in the quality plans which are required under this Chapter. Such activities shall include, without limitation, the inspections and/or tests expressly or implicitly required by the Contract.

- 5.1.3 Without prejudice to such requirements, the Employer's Representative may from time to time instruct the Contractor in relation to such further or other inspections and/or tests as are in his opinion appropriate.

- 5.1.4 Quality audits will be conducted by the Employer's Representative to verify the Contractor's implementation and compliance with the quality management system as specified herein.

5.2 General Requirements

- 5.2.1 All quality system documents and plans to be submitted shall embrace all activities of the Contractor and sub-contractors of any tier, including its suppliers.

5.2.2 Quality Plans

- 5.2.2.1 The quality plans to be submitted by the Contractor shall comprise of:

- (1) a Management Quality Plan, for the control of all management related activities;
- (2) Deleted;





metal base. They shall be so mounted as to provide continuous contact of all wheels with the corresponding rail surfaces under all condition of loading and operation. The wheels shall run on three finished rail surfaces. The Contractor shall provide a means of adjustment of spring pressure and of play between shoes and guide rails.

- ii. The roller guides shall run on dry guide rails. Sheet metal guards shall be provided to protect the wheels on top of the car and counterweight. The roller wheels for the car shall not exceed 500 rpm and the roller wheels for the counterweight shall not exceed 1000 rpm at rated speed.
- iii. The car and the counterweights are to be statically balanced following fitting of all its equipment and finishes prior to fitting the guide shoes.

6.8.2

Car Frame

A suitable car frame fabricated from galvanized cold or hot rolled steel, bolted, or welded together to form a rigid structure shall be provided. The deflection of the members carrying the platform shall not exceed 1/1000th of their span under static conditions with the rated load uniformly distributed over the platform. It shall be able to withstand the operation of the safety gear or any condition loading without permanent deformation and shall not transfer the load to the enclosure. The safety factor of the frame shall not be less than five (5).

6.8.3

Car Enclosure

Car enclosure required under this Tender are of two types: - (i) Stainless Steel door and side panels elevators, (ii) Glass door & two side glass side panel elevators (Anywhere in the tender, if it is mentioned as Glass Lift, it should be considered as Glass Door with two side Glass Panels as per Indication Drawing Shown in Appendix-G)

- (a) The car enclosure shall be fabricated from galvanised scratch resistance stainless-steel of not less than 1.5 mm in thickness or any other material where specified and securely fastened to the car platform and so supported that it cannot be loosened or become displaced in ordinary service or on the application of safety gear or on buffer engagement. The design of the final finishes of the walls, ceiling and floor is subject to the acceptance of the "Engineer".
- (b) No wood or other combustible materials shall be used for any part of the Elevator car including car door and emergency trap door.
- (c) The enclosure shall be designed and supported such that when subjected to a pressure of 335N applied horizontally at any point over an area of 5 cm² on the walls from the inside of the cars toward the outside, there shall be no permanent deformation and deflection shall not be more than 10 mm.
- (d) The enclosure shall be insulated to prevent the transmission of noise and vibration from the car frame.



- (e) For elevators of glass door with glass side panels, the car enclosure shall be Scratch Resistant Stainless steel finish at rear side and framed transparent glass panels on both sides with minimum thickness 10mm.
- (f) The indicative drawing for Glass Door Elevators with glass side panels is attached as Appendix G.

6.8.4 Car Platform

- (a) The car platform shall be constructed from spray galvanized cold or hot rolled steel with steel flooring. The platform shall be designed on the basis of the rated load being evenly distributed with a minimum safety factor of five (5). The design of the final floor finish is subject to acceptance by the "Engineer".
- (b) The car platform shall be insulated to prevent the transmission of noise and vibration from the car frame to the platform.

6.8.5 The car roof shall be suitably constructed with galvanized sheet steel and reinforced to permit the maintenance and inspection of the Elevator shaft equipment to be carried out by maintenance personnel standing on the car roof. Perforated with mesh construction of the roof or wooden platform(s) on the car roof shall not be acceptable. The car roof shall be fitted with guard rails set as at suitable height and of suitable dimensions and strength to protect maintenance personnel.

6.8.6 A toe guard shall be provided for the car doors conforming to Paragraph 8.4 of EN81 Part 1. The toe guard for elevators shall be made of galvanized sheet steel of not less than 1.5 mm thick and painted and shall be adequately braced at the back. The depth of the toe guard shall be sufficient to prevent any object from being trapped between the underside of the car platform and the landing during re-levelling operation (with a minimum of 700 mm).

6.8.7 Ventilation

- (a) Each Elevator car shall be adequately ventilated using Cross Flow Fans to achieve minimum standard of 20 air changes per hour. The fans shall be located above the suspended ceiling or recessed in the car ceiling as appropriate.
- (b) A low speed fan of low noise shall be used. The noise from the fan measured at a distance of 1 meter away within the Elevator car shall not exceed 50 DBA (+5%).
- (c) The effective area of ventilation apertures shall be at least 1% of the car platform area as per EN-81.
- (d) Fan shall automatically start on registering the command / Auto Call for 2 floors elevators. However, fan Switch shall be provided to disable auto-starting of the Fan when not desired.



- (e) A typical 5 mm gap shall be allowed between adjacent glass panels and between edges of glass panel and stainless steel corner. The gaps shall be sealed with a suitable sealant material. Extent of seal shall be from the base of the floor to the top of the glass walls. All areas of glass edges subject to contact with the sealant shall be treated with a separator chemical to mitigate the chemical reaction between the PVB interlayer and sealant. The Contractor shall conduct standard test from the glass manufacturer to demonstrate compatibility between sealant and PVB interlayer, the width of edge de-lamination is not to exceed 1 mm under simulated exterior exposure for a period of 2½ years.

6.30 Special Cable Requirements

- 6.30.1 All cables used except those within the enclosed controller shall comply with the following requirement: -
- 6.30.2 All Control cables shall be rated for minimum grade of 650V and all power cables for minimum grade of **1000V**.
- 6.30.3 The conductor shall be of stranded conductor composed of plain annealed copper wire complying with IEC 228, Class 2/ IS 8130.
- 6.30.4 The insulation shall consist of an extruded layer of cross-linked polyethylene complying with IEC 502/ **IS 7098 Part 1**.
- 6.30.5 All cables shall be manufactured from fire retardant, low smoke, halogen free materials (FRLSZH) for underground lifts. The Contractor may propose to use cables manufactured from fire retardant materials (FRLS) only in elevated stations and above ground open areas.
- 6.30.6 Fire retardant, low smoke, halogen free materials shall meet the following requirements:-
- (a) London Transport Executive Three Meter Cube Smoke Emission Test, using optical measuring instruments. The maximum value of absorbance AO (ON), AO (OFF) shall be 0.8 & 1.2 respectively or Cables confirming to IEC 61034 / ASTM 2843-2010 can be used.
 - (b) The US National Bureau of Standard Smoke Chamber Test, used to evaluate plaque samples of materials of constant thickness (NFPA-258 Smoke Generation of Solid Materials 1982). The maximum specific optical density shall 170 under the non- Polluted condition or The maximum smoke density value shall be in percent of light absorbance as per IEC 61034-2-2013 and method as per ASTM 2843 - 2010.
 - (c) The flame propagating criteria of US IEEE Standard 383/ **IEC 60332 Part 1**, with a minimum test short circuit time of five minutes, in the IEEE Standard 383/ **IEC 60332 Part 1 test.**
 - (d) IEC 332 Parts 1 and 3, Category 'B', tests on single and bunched cables under fire conditions.



- 8.1.5 The Contractor shall submit all applicable data, criteria, standards, directives and information used as a basis for the design of the elevators.
- 8.1.6 The Contractor shall comply with the drawings and graphic standards identified in the Employer's Requirements.
- 8.1.7 The Contractor shall submit the design calculations for the following, to demonstrate how the operational requirements are achieved.
- (a) Structural loading to pit and shaft wall.
 - (b) Heat dissipation value for the elevator
 - (c) Power requirements and efficiency of motor/machine.
 - (d) Any other information necessary or asked by the Employer
- 8.1.8 The Contractor shall submit catalogues and/or samples for all parts and components used in this Contract as per Employer's Requirement.
- 8.1.9 The Contractor shall prepare equipment layout plans and other documents necessary to facilitate the design interface co-ordination with other System-wide and Designated Contractors. These plans shall, (if necessary) be incorporated in design drawings but they must be prepared at appropriate times and in sufficient detail to permit successful co-ordination of space provisions for the elevators.
- 8.2 Endorsement Requirement**
- All drawings, calculations, test certificates, technical information, data and analysis submitted in this Contract shall be endorsed by the Contractor's registered Professional Engineer. The design certificate & drawings shall confirm to Performa (Refer clause 4.7 of PS).
- 8.3 Co-ordination with Designated Contractors**
- The Contractor shall co-ordinate with the Designated Contractors, shall finalise and agree with the Designated Contractors all relevant matters relating to the equipment including but not limited to the following:
- a) space requirements, including tolerances for construction of the civil works.
 - b) fixing requirements
 - c) loading
 - d) interface with architectural finishes
 - e) cabling routes, termination details including providing information to the Designated Contractors.



- (d) "UP/DOWN" buttons which shall cause a car to travel in the desired direction. These buttons shall be operative during the "Attendant mode" as well as "Normal mode" operation.
- (e) An "ON/OFF" switch whereby the ventilation fan can be switched on and off.
- (f) The fireman switch shall be provided as per IS-14665 (part-5) and statutory requirement.

6.12 Big Size Car Position Indicator

- 6.12.1 The faceplate of the big size car position indicator shall be made of stainless steel grade 304 hairline finished. The Stainless steel plate should be at least 2.5 mm thick and its mounting arrangement should have minimum two sunken screws. This plate should be pilfer proof. Floor numbers shall be digitally displayed using 5 x 7 square Dot matrix / LCD display. There shall also be an arrow in motion vividly and dynamically indicating car movement and direction. It shall also be capable of displaying simple message such as, floor names like "Concourse, Platform", " Out of service", under maintenance", "This landing is not in Use" etc. The surface of the display unit shall be non-glare type.

6.13 Elevator Inter-Communication System

- 6.13.1 The Contractor shall provide an Elevator inter-communication between the Elevator Car, main control cubicle and SCR/CC room consisting master and slave stations.
- 6.13.2 All stations shall be equipped with handsets except those slave stations installed inside the Elevator cars, which shall be of the hands free type.
- 6.13.3 The power supply arrangements for handsets / intercoms shall be connected with UPS power supply of the station such so as intercoms working shall not be affected by the failure of main supply.
- 6.13.4 A master station shall be supplied and installed in the Station Control Room (SCR) /CC room. A single intercom system to handle the calls from all lifts shall be installed and it shall be handset type with call identification facility.
- 6.13.5 A slave station shall be supplied and installed in the main control cubicle and also in each Elevator car. The loudspeaker and microphone unit of the slave station shall be concealed in the car operating panel. The necessary cabling, conduits including from SCR/CC room to main control cubicle etc. shall be provided by the Contractor with proper interfacing with designated Contractor. Routing shall be finalized with the designated contractors before fixing of the false ceiling in the stations. It should be possible to decipher the identity of calling Elevator at the SCR / CC room. The Lifts (inside and outside) should also be numbered at each station for the purpose of easy identification.



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115% -140 % of the rated speed downwards. A mechanically operated safety switch shall be provided to disconnect the power supply to the motor when the governor is activated. The governor shall be adjusted to operate the safety gear in accordance with the recommended limits set out in IS 14665. The governor rope shall be of steel and shall comply IS: 14665.

An over speed governor shall be provided to the Counter weight in case of Hanging pit. The Contractor is required to interface to the designated Contractor for the requirement of hanging pits.

- 6.18.7 A phase protection device and 3 phase as well as single phase earth leakage protection device shall be provided in the main control cubicle of each Elevator to prevent the Elevator car from moving in the event that there is a phase failure, or the phase of the power supply being reversed due to any reason whatsoever. These devices, when activated, shall cause a visual indicator to illuminate on the main control cubicle, until the fault has been rectified.

As in the case of Power failure (including single phasing/ unbalanced phase), elevator should operate in the Automatic Rescue Device (ARD) and BDT or Electronic Rescue Tool (ERT) mode. This software for providing this feature is subject to the Employer's acceptance.

- 6.18.8 Two switches shall be provided in the Elevator shaft, one at bottom landing and other in the pit which, when in the "STOP" position, shall prevent any movement of the Elevator car, including inspection/ test operation, until both the switches are set to the "RUN" position. The switching positions shall be prominently labeled. The knob of these switches shall have luminous paint.

6.19 Electrical Requirements

- 6.19.1 Each Elevator shall be provided with a main control cubicle to accommodate all electrical switchgear. A caution notice with the wording "Danger- 415V/240V A.C. Do Not Remove Cover Unless Incoming Supply is Switched Off" shall be affixed to the cover/ door. The size and shape of the main control cubicle shall be same as that of Maintenance Access Panel (MAP).

- 6.19.2 The Elevators shall be designed to operate on a $415V \pm 10\%$ a.c. 3 phase, 4 wire, $240V \pm 10\%$ a.c. 50Hz single phase power supply. Power supplies armoured cables up to elevator's main control cubicle, and routing done up to the entry point in the elevator's shaft shall be supplied by the Designated Contractors. The Contractor shall coordinate with the respective Contractors to incorporate their requirements. Main switch/MCB Box with ELCB etc. in unpaid area should be in lockable enclosure and in scope of elevator contractor. MCB box shall be IP-54. All ELCB's, MCBs & Switches should be as per Employer approved vendors. The shaft LED lighting (200 Lux as per IS: 15785), Ventilation arrangement and pit socket outlets



than 2 mm in thickness, indelibly marked "Pit Stop Switch" in both English and Hindi characters and with legends to show the "STOP" and "RUN" positions shall be provided and fixed immediately adjacent to the switch. The knob of these switches or plate shall have luminous Paint.

- 6.24.6 The contractor shall do all necessary interfacing for ensuring proper drainage system. Designated Civil Contractor shall provide drainage. But, to ensure proper drainage of Lift Pit / Roof of Lift Shaft shall be the Elevator Contractor responsibility before starting the Installation. Interface table is attached at Annexure-A.

6.25 Corrosion Protection

The Contractor shall take into consideration, the corrosive effect of the atmosphere in the Elevator design.

- 6.25.1 All steel components shall be hot dipped galvanized in accordance with BS 729 / ISO1461, with minimum thickness of 85 μm .
- 6.25.2 All mechanical and cast iron assemblies shall be cleaned and painted. The running surfaces of car guides shall be treated with an accepted rust preventive compound.
- 6.25.3 All parts constructed in sheet steel shall be either galvanized by the hot dipped process or fabricated from hot dipped galvanized sheet steel.
- 6.25.4 All hardware, fastenings, screws and shims shall be hot-dipped galvanized. However, all visible screws and fastenings shall be of stainless steel. Epoxy painting will be permitted only on site damage repairs
- 6.25.5 Wherever galvanization on ferrous components has been damaged in handling the same shall be given two coats of zinc chromate primer and two coats of aluminum paints conforming to IS 2339.
- 6.25.6 The contractor shall provide all parts, hardware fastenings, screws, components, assemblies and shims conform to latest Indian Standards.
- 6.25.7 Galvanization shall comply with the standard mentioned below: -
- | | |
|----------|------------------------------------------------------------------------------------------------------------------------------|
| ISO 1459 | - Metallic Coatings - Protection against corrosion by hot dip galvanizing – Guiding Principles; |
| ISO 1460 | - Metallic Coatings - Hot dip galvanized coatings of ferrous materials –Gravimetric determination of the mass per unit area; |
| ISO 1461 | - Hot dip Galvanized coating on fabricated ferrous products – Specification & test Method; |
| ISO 2064 | - Metallic and other non-organic coatings – definitions and conventions concerning the |



1.11 Tender Pricing

- (a) Tenderers shall quote for the entire work on a "single responsibility" basis such that the total tender price covers all Contractor's obligations mentioned in or to be reasonably inferred from the Tender Documents in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation, completion of the whole of Works. This includes all requirements under the Contractor's responsibilities for testing and commissioning of the works including integrated testing and commissioning, the acquisition of all permits, approvals and tender licenses, etc.; the operation, maintenance and training services and such other items and services as are specified in the tender documents. Items against which no price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed to be covered by the prices for other items. The Tenderer shall take regard of the actual site conditions and the items entered in the various Statements. The Tenderer shall price his tender accordingly and the unit prices entered against a line item shall be the full and only price paid for all work performed against that item except as described in the Tender Documents.
- (b) Tenderers are required to quote the price for the commercial, contractual and technical obligations outlined in the tender documents. If a Tenderer wishes to make deviations or wants to put conditions, qualifications, etc., such deviations, conditions, qualifications etc. shall be listed in a Statement No. 10 forming part of BOQ. The Tenderer shall also provide in this statement the additional price, if any, for the unconditional withdrawal of the deviations, qualifications, conditions etc. This additional price for the unconditional withdrawal has to be given separately for each deviation, qualification, condition, etc. Any deviation / qualification / condition that is not priced for unconditional withdrawal shall not be considered.
- (c) The price shall not be unbalanced. The price quoted under schedule statement - 1 (Design) shall not exceed 2% of the total quoted price. The combined cost of statement - 1, 2 & 3 should not exceed 75% of the total contract value. The cost of maintenance in statement-5 during Two years of DLP should not be less than 6% and should not be less than 3% for the third year in statement - 9. In event of non-compliance of above by the successful bidder, the employer shall readjust the cost of various schedules on prorata basis, keeping total cost same, which shall be binding on the bidder.

The Tenderer shall quote the prices in the Statements of Prices in Indian Rupees only. Attention is drawn to Clause C16.1 of ITT.

2. CONTENTS OF THE STATEMENT OF PRICES

2.1 The Pricing Document is divided in various Statements of Prices as follows:

The statements below are for the purpose of tendering only. Actual distribution of quantities in each corridor will be done during the execution stage based on the sections / station in each corridor. Indicative list of such distribution is given in clause A1.1 ITT

Statement No.1A	Deleted
Statement No.1B	Deleted.
Statement No.2A- 1	Design of Machine-Room Less Elevators supplied from within India

