

Addendum-01
CMRL/PHASE -II/SYS/CP22/C4-ASA10/2022
02 August 2022

SN	Part	Section	Clause	Original Bid condition	Revised bid condition
1	Part 2	Particular Specifications	4.1.2	All the sub systems, equipments to be used for PSD system shall be of proven design and in use in transit systems in at least one country outside the country of origin of the sub system / equipments. These reference transit systems must have design headway of 3 min or better. The contractor shall provide certificate from the user of the transit systems that the proposed sub-system/ equipments are working satisfactorily and no unsafe failure has been reported.	All the sub systems, equipments to be used for PSD system shall be of proven design and in use in transit systems in those places which have environmental conditions similar to the project site of Chennai. The contractor shall provide certificate from the user of the transit systems that the proposed sub-system/ equipments are working satisfactorily and no unsafe failure has been reported.
2	Part 1	Part 1, Section -IV Bid Forms	4.5.3	Schedule of Payment for Price Centre B - Design - 30%, Materials - 35%	Schedule of Payment for Price Centre B - Design - 20%, Materials - 45%,
3	Part 1	Part 1, Section -IV Bid Forms	4.5.4	Schedule of Payment for Price Centre C - Design - 25%, Materials - 40%	Schedule of Payment for Price Centre C - Design - 20%, Materials - 45%
4	Part 1	Part 1, Section -IV Bid Forms	4.5.5	Schedule of Payment for Price Centre D - Design - 10%, Materials - 40%, Installation-30% , SAT and Integrated testing- 20%	Schedule of Payment for Price Centre D - Design - 15%, Materials - 50%, Installation-17% , SAT and Integrated testing- 18%
5	Part 2	Particular Specifications	4.14.1	The global transfer U-Factor coefficient shall not exceed 6.5 W/m ² /k (global means glass + whole structure).	The global transfer U-Factor coefficient of a Full-Height PSD shall not exceed 6.5 W/m ² /k (global means glass + whole structure).
6	Part 2	Particular Specifications	5.4.6		After the loss of power supply, if the power resumes, the BSD shall remain in its position of the door at resumption (with no closure or opening at resumption) , untill a new open or close command is received. The resumption of PSD after the power resumes shall not require any manual intervention in the station.
7	Part 2	Particular Specifications	5.18.9		The response of the BSDs as a part of the obstruction detection facility, shall be same for BSD closure, irrespective of the mode of opening of the BSD (using mechanical handle from track side , or LCKS, or from signalling system)
8	Part 2	Particular Specifications	9.1.3		The surface of the PSD façade- cladding, glasses, doors etc, shall be provided with appropriate removable films to protect the material at site in the construction period till the opening of the station for public use.
9	Part 2	Particular Specifications	6.6.3.3	The surface finish of the PSD (except in the glass area) shall be Stainless steel or aluminium. If stainless steel, the grade of steel shall be 316 or better. If aluminium, it shall be anodized, and powder coated adequately to withstand the daily passenger operation and environment. Steel or Aluminium cladding provided shall be provided with colour (PVD process for Stainless steel). The RAL colour of the surface, member wise, shall be approved by the Engineer.	The surface finish of the PSD (except in the glass area) shall be Aluminium. Aluminium shall be of a grade 6063- T5 or T6 and it shall be anodized, and powder coated adequately to withstand the daily passenger operation and environment. Aluminium cladding provided shall be provided with colour (one or more) . The RAL colour of the surface, member wise, shall be approved by the Engineer.
10	Part 2	Particular Specifications	6.1.6	All circuits external to a signalling equipment room (which houses PSD indoor equipments also), which are of fail-safe design, shall be protected against cable faults and immune to any malfunction by external interference. The Contractor shall explain how his design meets these requirements. Separate cables shall be used for vital circuits such as Interlock Override, All Doors Closed and Locked etc.	All circuits external to a signalling equipment room (room located in Platform level, concourse level or any other intermediate levels if any, which also houses PSD indoor equipments), which are of fail-safe design, shall be protected against cable faults and immune to any malfunction by external interference. The Contractor shall explain how his design meets these requirements. Separate cables shall be used for vital circuits such as Interlock Override, All Doors Closed and Locked etc.

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18	Part 1 -	Section IV - Bidding Forms -	Cl. 4.1.15 - 1st Para	4.1.15 Price Centre 'F' – 'Contract Spares, Special tools, Testing Equipments, Measuring Instruments and Furnitures, Maintenance assistance, comprises of all those obligations and ongoing activities throughout the Contract including the following but not limited to:	4.1.15 Price Centre 'F' – 'Contract Spares, Special tools, Testing Equipments, Measuring Instruments and Furnitures', comprises of all those obligations and ongoing activities throughout the Contract including the following but not limited to:
19	Part 1	Section IV - Bidding Forms -	Cl. 4.1.15 - S. No. (xiii) to (xvi)	<p>(xiii)The Contractor shall provide Qualified Supervision Experts in accordance with the Employer's Requirements. Maintenance technicians and Staff/ Labour will be provided by the Employer. The Experts may be required during the period commencing from Completion of each Stage, until the end of Defect Liability Period of Stage 7.</p> <p>The Contractor has to quote unit rate per week, common to Supervisory Experts in various sub-systems of Platform Screen Doors. The Employer will decide the deployment time, number of weeks of deployment and the fields of specialization in which the Supervisory experts will be required. The Contractor will be paid as per actual number of man-weeks utilized (or part of the week, as the case may be). The Contractor will be given 3 months advance notice about the fields in which Supervisory Experts will be required, date of deployment and the duration in weeks for which their services will be required, on that occasion. On any occasion, if required to be mobilized by the Employer, the minimum duration for which the Expert service will be required, is 4 weeks. A week means 6 working days out of seven days. The unit rate per expert supervisor week, will be counted for Bid evaluation. The experts will be utilized for on-job training of Employer's staff in correct utilization of the facility provided, corrective adjustments/preventive and corrective maintenance actions, troubleshooting etc.</p> <p>(xiv)The provision of resources for 'Assistance for Maintenance' (40 Manweeks) does not relieve the Contractor's Contractual obligations and responsibilities during the Defects Liability Period.</p> <p>(xv)The Deployment of the Experts under the Price Centre 'Training' (30 Manweeks) may not be continuous, and they may be required to organize training in various course types & durations, as per Project requirements in short periods at a time as required by the Employer.</p> <p>(xvi)The manweeks specified in Price Centre / BOQ for 'Maintenance Assistance' (40 Manweeks) and Training (30 Manweeks) are tentative and will be considered for bid evaluation. The Employer at their discretion may or may not operate this item either fully or partially at the quoted price by the bidder and the contractor has no claim on</p>	Deleted from Cl. 4.1.15 and shifted to Cl. 4.1.14 of Part 1 - Section IV - Bidding Forms and provisioned under S. No. (xi)
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22	BoQ	Exel file		The BOQ excel file is replaced in the E-Procurement portal to update the changes, as above	The BOQ excel file is replaced in the E-Procurement portal to update the changes, as above																																																																																																																																																																																																																																																																																																																																												
23	Part 1	EQC		Please find attached, the EQC chapter, which replaces the corresponding pages of the original tender document.	Please find attached, the EQC chapter, which replaces the corresponding pages of the original tender document.																																																																																																																																																																																																																																																																																																																																												
24	Part 2	Particular Specifications	6.6.2.4	The threshold plate for the FHPSD shall be made of Stainless steel of grade 316 or better.	The Structural elements of the PSD shall be of Carbon Steel, as per the standards referred in the specification. The threshold plate of the PSD shall be made of Stainless steel of grade 316 or better.																																																																																																																																																																																																																																																																																																																																												



CHENNAI METRO RAIL LIMITED

CHENNAI METRO RAIL PROJECT PHASE – II, CORRIDOR – 4

Tender No. C4-ASA10

**“DESIGN, MANUFACTURE, SUPPLY,
INSTALLATION, TESTING & COMMISSIONING OF
PLATFORM SCREEN DOORS FOR CMRL PHASE II
- CORRIDOR 4”**

PART - 1 : BIDDING PROCEDURES

**SECTION - III : EVALUATION AND
QUALIFICATION CRITERIA (EQC)**

AUGUST 2022

Evaluation and Qualification Criteria (Without Prequalification)

1. Evaluation

1.1 Technical Evaluation

In addition to the criteria listed in ITB 35.1 (a) – (b) the following factors shall apply:

1.1.1 Personnel

The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements:

No.	Position	Total Work Experience (Minimum number of years)	Experience in Similar Works#(Minimum number of years)
1	Project Manager (to be Contractor's Representative under GC 4.3)	20	10
2	Deputy Project Manager	15	10
3	Engineering Manager	15	8
4	Interface Manager	15	8
5	Project Quality Manager	15	8
6	OHSE Manager (Accident Prevention Officer)	15	8
7	Testing and Commissioning Manager	15	8

The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 in Section IV, Bidding Forms.

#Works similar to the scope of the ASA-10 contract.

1.2 Economic Evaluation

In addition to the criteria listed in ITB 38.2 (a) – (c) the following criteria shall apply.

1.2.1 Quantifiable nonmaterial nonconformities

Pursuant to ITB 34.3 and ITB 38.2 (d), the cost of all quantifiable nonmaterial nonconformities or omissions (minor omissions or missing items) will be evaluated. The Employer will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids.

1.2.2 Other Factors

The following factors and methods will apply under ITB 38.2 (f):

- (a) Operating and Maintenance Costs – Not considered for Bid evaluation.
- (b) Specific additional criteria - Not used

1.2.3 Award Criteria for Multiple Contracts (ITB 38.4)

Not applicable

1.3 Alternative Completion Times

Alternative Completion Times shall not be permitted.

1.4 Alternatives Technical Solutions

Alternatives technical solutions shall not be permitted.

2. Qualification

(i) Exchange Rate for Qualification Criteria

Wherever a Form in Section IV, Bidding Forms, requires a Bidder to state a monetary amount, Bidders should indicate the **INR equivalent** using the rate of exchange determined as follows:

- (a) For turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year.
- (b) Value of single Contract - Exchange rate prevailing on the date of the Contract.

Exchange rates shall be taken from the publicly available source **identified in BDS 37.1** or, in case such rates are not available in the source identified above, any other publicly available source acceptable to the Employer. Any error in determining the exchange rates may be corrected by the Employer.

(ii) Qualification Criteria for Multiple Contracts

Not applicable

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
2.1 Eligibility						
2.1.1	Nationality	Nationality in accordance with ITB 4.3.	Must meet requirement	N/A	Must meet requirement	Form ELI –1.1 and 1.2, with attachments
2.1.2	Conflict of Interest	No conflicts of interests as described in ITB 4.2.	Must meet requirement	N/A	Must meet requirement	Letter of Technical Bid
2.1.3	NDB Ineligibility	(i) Not having been declared ineligible by NDB as described in ITB 3.1 and ITB 3.2 (ii)Not having been declared ineligible by Multilateral and bilateral funding agencies /Government of India/ Railway Administration/ any state Government undertaking as on the due date of submission of bid as described in BDS 3.2 (c)	Must meet requirement	N/A	Must meet requirement	Letter of Technical Bid
2.2 Historical Non- Performance						
2.2.1	History of non-performing Contracts	Non-performance of a Contract ⁽ⁱ⁾ did not occur as a result of Contractor's default since 1st January 2020.	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	Form CON

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
2.2.2	Pending Litigation	All pending litigation shall in total not represent more than Hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	Form CON
2.2.3	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ⁽ⁱⁱⁱ⁾ since 1st January 2017 .	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	Form CON

Notes for the Bidder

(i) Non-performance, as decided by the Employer, shall include all Contracts:

- (a) where non performance was not challenged by the Contractor, including through referral to the dispute resolution mechanism under the respective Contract, and
- (b) that were so challenged but fully settled against the Contractor.

Non-performance shall not include Contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective Contract and where all appeal instances available to the Applicant have been exhausted.

(ii) This requirement also applies to Contracts executed by the Bidder as a JV member.

- (iii) The Bidder shall provide accurate information on the related Bidding Form about any litigation or arbitration resulting from Contracts completed or ongoing under its execution over the last five (5) years. A consistent history of awards against the Bidder or any member of a joint venture may result in rejection of the Bid.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
2.3 Financial Situation						
2.3.1	Financial Performance	<p>The audited balance sheets or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last (5) FIVE years shall be submitted and must demonstrate the current soundness of the Bidder's financial position and its prospective long term profitability.</p> <p>As the minimum requirement, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive for any three years out of last five years.</p> <p>The financial year as applicable in the country of origin of the bidders would be considered. The 'last financial year' will be the latest financial year that ended before the date of issue of NIT for this tender.</p>	Must meet requirement	N/A	Must meet requirement	Form FIN – 1 with attachments

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
2.3.2	Average Annual Turnover	Minimum average annual turnover of INR 80 crores calculated as total certified payments received for Contracts in progress and/or completed , within the last FIVE (5) years divided by FIVE (5) years.	Must meet requirement	Must meet requirement	Must meet minimum 25% of the requirement	Form FIN – 2
2.3.3	Financial Resources	(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the cash flow requirements estimated as INR 20 crores for the subject Contract(s) net of the Bidder's other commitments.	Must meet requirement	Must meet requirement	Must meet minimum 25% of the requirement	Form FIR – 1 and FIR – 2
2.4 Experience						

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
2.4.1	General Experience	Experience under Engineering Contracts in the role of Prime Contractor (Single entity or JV Member), Sub-Contractor, or Management Contractor ⁽ⁱ⁾ for at least the last Seven (7) years starting 1st January 2015 .	Must meet requirement	N/A	Must meet requirement	Form EXP - 1
2.4.2 (a)	Specific Experience	Experience in Platform Screen Doors contracts in the role of Single entity without any specialist sub-contractor OR as a Specialist Sub-Contractor ^(vi) OR as a Member of the JV/Consortium ^(iv) and must have substantially ⁽ⁱⁱⁱ⁾ completed between 1st January 2012 and the bid submission deadline , A minimum number of; 1. One work involving Platform Screen door system in Metrorail /Monorail/ People Mover/ Railway project/ Light Rail; of Value INR. 132 crores ⁽ⁱⁱ⁾ or above.	Must meet requirement	Must meet requirement ^(v)	N/A	Form EXP - 2(a)

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
		<p><u>Or</u></p> <p>2. Two works involving Platform Screen door system in Metrorail /Monorail/ People Mover/ Railway project/ Light Rail; each of Value INR 83 crores⁽ⁱⁱ⁾ or above.</p> <p><u>Or</u></p> <p>3. Three works involving Platform Screen door system in Metrorail /Monorail/ People Mover/ Railway project/ Light Rail; each of Value INR 66 crores⁽ⁱⁱ⁾ or above.</p>				
2.4.2 (b)	Specific Experience	Experience in Platform Screen Doors contracts ^(vii) in the role of Single entity without any specialist sub-contractor OR as a Specialist Sub-Contractor ^(vi) OR as a Member of the JV/consortium ^(iv) and must have substantially ⁽ⁱⁱⁱ⁾ completed between 1st January 2012 and	Must meet requirement	Must meet requirement	N/A	Form EXP - 2(b)

Eligibility and Qualification Criteria			Compliance Requirements			Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
		<p>the bid submission deadline,</p> <p>1. Half height PSDs for a minimum number of 4 platforms in Metrorail /Monorail/ People Mover/ Railway project/ Light Rail and shall be in satisfactory revenue operation for a period of minimum of 1 year.</p> <p>AND</p> <p>2. Full height PSDs for a minimum number of 4 platforms in Metrorail /Monorail/ People Mover/ Railway project/Light Rail and shall be in satisfactory revenue operation for a period of minimum of 1 year.</p>				
2.4.2 (c)	Specific Experience	For the works in Platform Screen Doors contracts ^(vii) , covered in 2.4.2 (a) or 2.4.2 (b), experience in the role of Single entity without any specialist sub-contractor OR as a Specialist Sub-Contractor ^(vi) OR as a Member responsible	Must meet requirement	Must meet requirement	N/A	Form EXP - 2(b)

Eligibility and Qualification Criteria			Compliance Requirements		Documentation	
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture## (Existing or Intended)		Submission Requirements
				All Parties Combined	Each Member	
		<p>for said work (in A, B below), of the JV/consortium and must have substantially⁽ⁱⁱⁱ⁾ completed between 1st January 2012 and the bid submission deadline, the scope of the works should have included</p> <p>A. Design and development of the DCU software and the SCADA software as an OEM for the respective PSD (Full height and Half height PSD)</p> <p>AND</p> <p>B. System Integration, testing and commissioning and all co-ordination with all Interfacing contractors for the respective PSDs (Full height and Half height PSD)</p>				

Notes for the Bidder:

- (i) A management contractor is a firm which takes on the role of contract management as a “general” contractor of sort could do. It does not normally perform directly the work(s) associated with the Contract. Rather, it manages the work of other (sub) contractors while bearing full responsibility and risk for price, quality, and timely performance of the contract.
- (ii) Summation of number of small value Contracts (less than the value specified under requirement) to meet the overall requirement will not be accepted.
- (iii) Substantial completion shall be based on 80% (Financial progress) or more works completed under the Contract. Completion shall be evidenced by submission of end-user certificates such as Taking-over Certificates and Completion Certificates as required to be submitted as attachment to Form EXP-2(a) or Form EXP-2(b) of Section IV - Bidding Forms.
- (iv) For contracts under which the Bidder participated as a JV member, only the PSD portion of the works, by value, shall be considered to meet this requirement.
- (v) In case of a JV, the value of Contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single Contract has been met. In determining whether the JV meets the requirement of total number of Contracts (Two contracts or three contracts as the case may be), only the number of Contracts completed by members each of value equal or more than the minimum value required shall be aggregated.
- (vi) For Contracts under which the Bidder participated as a JV member or as a Specialist Subcontractor, only the PSD portion of the works shall be counted to meet this requirement.
- (vii) Platform Screen Doors contracts, where the PSD system installed in a transport facility where design operating hours is minimum of 18 hours a day with a design headway of not more than 3 minutes.

A JV/Consortium shall consist of a maximum of three members.