Metro Express Ltd

Sicom Tower, Wall Street, Ebene

Meeting Record



Project	Design, Supply, Installation, Testing, Commissioning and Start-up of a Roof Mounted, On-grid, 10 kWp Photovoltaic System at Ebène Recreational Park		
Subject	Pre-Bid Meeting/Site visit Minutes	Date of Pre-Bid Meeting/Site visit	14 September 2021
	Responses to other Queries received by potential bidders	Time of Pre-Bid Meeting/Site visit	10.30 hrs – 11.30 hrs
Venue	Ebène Recreational Park	Recorded by	MEL

In attendance:

The Representatives of MEL were:

Name	Designation	Contact No.	Email
Z. Nahaboo	Senior Engineer		
V. Ho Kam	Manager, Park and Leisure		
K. Gunesee	Engineer, Power	460 0460	procurement@metroexpressltd.org
G. Ramsamy	Engineer, P-Way		
K. L. Mohit	Assistant Engineer		

The meeting was attended by the following Prospective Bidders/Representatives:

Name	Organization	Designation
Dave Kinnoo	SSL	Managing Director
Shiv Boodhun	The Laksh Solar Ltd	Managing Director
Ratiarison Tsiry	Reneworld	Engineer
Ibrahim Emambucus	Reneworld	Engineer
Christophe Laviolette	Sotratech	P.Coordinator
Kamlesh Ramdin	Sotratech	Engineer
Rao Appannah	Corex solar	Engineer
Ali Ramkoleea	Corex solar	Manager
Kamlesh Koonjbeeharry	Corex solar	Engineer

Item	Discussion		
1.	Introduction		
1.1.	MEL welcomed all present and informed that the purpose of the Pre-Bid Meeting/Site visit was to allow prospective bidders to be clear as to what MEL required through the Bidding document for the "Design, Supply, Installation, Testing, Commissioning and Start-up of a Roof Mounted, On-grid, 10 kWp Photovoltaic System at Ebène Recreational Park".		
2.	Issues Discussed		
2.1. MEL gave an overview of the bidding exercise as hereunder:			
	The Employer is: METRO EXPRESS LTD		
	The type of the bidding process is: Open National Bidding		
	• The name of the bidding exercise is: Design, Supply, Installation, Testing, Commissioning and Start-up of a Roof Mounted, On-grid, 10 kWp Photovoltaic System at Ebène Recreational Park		
	• The Closing date and time for submission: Thursday, 07 October 2021 at 15:00 hours, at latest.		
	 Any other query should be addressed to MEL by email at procurement@metroexpressltd.org by 27 September 2021 at latest. 		
	The scope of works was summarised by MEL (non-exhaustive list):		
	 Metro Express Ltd (MEL) intends to implement a roof mounted Photovoltaic (PV) system on the toilet building found at Ebène Recreational Park. This PV system is expected to partially offset the energy consumption of the Park. 		

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		• The PV system shall be able to effectively display to the Park users the solar energy production metrics achie	
		on premise and the sustainability figures achieved b	
	•	The toilet building roof structure, the CEB meter and the	
	•	Potential locations of equipment panels/inverter(s), disp bidder were also indicated.	lay system and cable trench to be installed by the select
3.	Queries	raised during the site visit	
3.1. The following responses are brought to the queries raised as follows:			/s:
.2.			
	SN.	Query	Response
	i.	Should the selected bidder cater for trenching and	Yes, the selected bidder shall cater for trenching and associated civil works.
		associated civil works?	Refer to Clause 2.14.1 of Section C.
	ii.	What should the LED screen display?	Refer to Clause 2.6 of Section C.
			There is no internet connection point on premise.
	iii.	Is there an internet connection point on premise?	Refer to Clause 2.8.1 of Section C.
			Refer to Annex 1 for an indicative layout.
	iv.	Can details be provided with regards to the manhole located in front of the park's main DB?	Further drawings will be shared with the successful bidder, who shall exercise caution during implementation so as to prevent damages to existing services.
		Also, kindly provide the site plan showing the service lines especially for the underground.	The selected contractor will also need to perform trial pits to confirm underground services if required.
	v.	Are additional sleeves available between the toilet building and the guard house for the selected bidder's use?	No additional underground sleeves are available. Refer to Response to Query (i) above.
	vi.	What are the opening hours of the park?	Ebène Recreational Park is open to public on Mondays to Sundays from 05:00 AM to 08:00 PM.
	vii.	What would be the working hours for the selected bidder?	Bidders are requested to carry out works during off-peak hours of the park. The contractor shall propose a work methodology to minimize inconvenience to the public during opening hours while performing the works and shall put in place all protection measures to ensure safety of public is maintained at all time. The contractor is advised to
			coordinate with the Park Operator and to perform most of works activities during off-peak hours; 07:00 AM to 04:00 PM and/or after opening hours, 08:00 PM.
	viii.	Can more details be shared regarding the electricity consumption of the park?	Electricity is mainly consumed by outdoor lighting and other MEP amenities within the park.
	ix.	Section 2.2.7 specifies that bidder must submit design calculations to ensure that the PV system withstand cyclonic conditions and it must be signed by a Registered Professional Engineer. At tendering stage, would it be possible for the bidder to submit a letter specifying that the PV system will withstand cyclonic conditions and provide the signed design calculations after the award of the project?	At tendering stage, the bidder may submit a letter specifying and assuring that the complete PV solar system's installation shall withstand local cyclonic conditions. However, the selected bidder will have to provide the detailed design calculations signed by a registered engineer.
	x.	Section 2.18.11. part (e) requests a wind resistance certificate in local cyclonic conditions. Is this certificate for the PV panels only or for the PV panels and mounting structure together? Is this certificate mandatory?	The wind resistance certificate refers to the PV modules including the mounting structure. Refer to Clause 2.2.7 of Section C. Refer to Response to Query (ix) above.
	xi.	Section 2.18.15. requests a Test wind resistance certification in cyclonic conditions (3800 Pa) shall be provided. Is it sufficient to submit only a certificate which describes the calculations/procedures to achieve the resistance and not a test certificate?	Refer to Responses to Queries (ix) and (x) above.

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Discussion		
xii.	Should the solar panels be fixed to the beam of the toilet building?	Yes, the solar panels are to be fixed on the beams found on the toilet building roof and not on the timber pergola slabs.
xiii.	Reference is made to point 16 and point 17 regarding advance payment and advance payment security. If a successful bidder does not need the advance payment, will Metro Express Ltd allow the successful bidder to start the project without the advance payment security and the payment will be done on progress of work?	The advance payment is not a requirement and the successful bidder can choose not to claim for it.
xiv.	Kindly specify the dimensions of the timber pergola.	The timber pergola cross sectional dimensions are 100 mm x 100 mm.
xv.	Kindly provide us a CAD drawing of the side and top views of the Toilet Building Roof.	A drawing of the side and top view of the Toilet Building Roof has already been provided in Section G. Further drawings will be shared with the successful bidder.
xvi.	Section 2.2.3 mentions that "the frame of the module support structure shall be made of extruded aluminium abiding to EN-AW-6063 T6 and conform to BS EN 1991- 1-4:2005+A1:2010 or equivalent Standards. All nuts and bolts shall be of aluminium." Can the frame and fitting materials be confirmed?	The material proposed shall be equivalent to or higher in standards than the material specified provided that the intended design life can be achieved and the load requirements are met. Refer to Clauses 1.11, 1.12 and 2.2.7 of Section C.
xvii.	Can it be confirmed what does 'each site' within Section 1.9.1 refer to?	As mentioned in the bidding document, the selected bidder shall bear all expenses for all materials in transit up to the site of works, namely Ebène Recreational Park.
xviii.	Grateful to provide a clear picture of the CEB main circuit breaker cubicle	Refer to Annex 2 and Response to Query (xix) below.
xix.	Please provide the ratings of the main circuit breaker	The existing CEB main circuit breaker is adjustable from 160A up to 400A. The selected bidder shall coordinate with CEB to determine adequate protection settings for its implemented system.
XX.	The client MBD is rated 100A. During the site visit, mentioned was made of an isolator of 400A. Please confirm with CEB whether an isolator of 400A should be installed or a 100A one. Installing an isolator of bigger size will imply installing a cable of bigger size from CEB main CB to the new Isolator. Please confirm the rating of the isolator or the rating of CEB supply to the park.	The Lockable Isolator shall be rated at 400A as advised by the CEB. Local Isolators shall be adequately sized by the selected bidder in coordination with the CEB. Please refer to Annex 3 for an indicative interface diagram. The selected bidder shall ensure all necessary works, modifications included, are undertaken for a safe and satisfactory implementation of the PV system. Refer to Clauses 1.5.4, 2.12.9 and 2.13.1 of Section C, and Response to Query (xix) above.

4. Conclusion

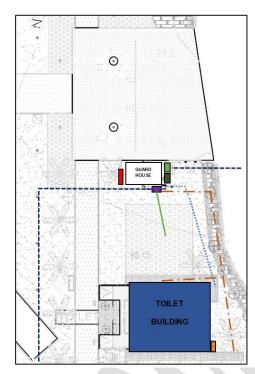
4.1. The site visit ended with a note of thanks at 11:30 hours:

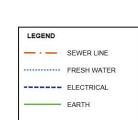
- The notes of meeting will be circulated by MEL and uploaded on the official website www.mauritiusmetroexpress.mu.
- For any additional query or clarification, bidders may send an email to procurement@metroexpressltd.org
- Bidders are reminded that they should observe the highest standard of ethics and should not disclose any information for their personal interest, since they are bound by a Confidentiality form.

	5. Responses to Other Queries received by potential bidders		
SN.	Query	Response	
5.1.		The bidder shall provide his best proposal to make an optimum use of the available space and to comply with the requirements.	

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	requirement and the slope being on towards the south will reduce the efficiency of the panels. With the best technology, and the best grade of panels we can achieve 3.5KWp at best. Can you please advise if requirements provided are correct?	
5.2.		An adequate location for the internet access point will be coordinated with the selected bidder, as long as the functionality of the implemented system is achieved.

Annex 1: Indicative MEP layout between Toilet Building and Guard House - Ebène Recreational Park (Figure not to scale)





Annex 2: CEB Main Circuit Breaker



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Annex 3: Indicative Grid Interfacing Diagram by CEB

