

ROADS & TRANSPORT AUTHORITY ROUTE 2020 Design & Construction Prequalification Documents



Route 2020 – Prequalification Documentation

PREQUALIFICATION

PART 1

RFQ PROCEDURE DOCUMENT

	Document Number	28/04/2015
R L C - 0 0 0 - A	R C - C 0 0 - R P T - P S - 0 0 0 0 1	A4



CONTENTS OF THE PREQUALIFICATION DOCUMENTS

PART 1 – PREQUALIFICATION PROCEDURE

This Report includes Part 1 only, Part 2 "Application Forms" are provided separately.

Part 1 also contains the following Appendix:

APPENDIX A: SCHEDULE



PART 1 – PREQUALIFICATION PROCEDURES

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SECTION A. Instructions to Applicants

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Section A. Instructions to Applicants

A. General

1. Introduction

Contractors of International standing and repute, interested in bidding for the works in connection with the Design, Construction of the Route 2020 Metro Rail Project as described in the Scope of Application (paragraph 2 below) are requested / invited to prequalify according to the present procedure.

In connection with this Request/Invitation for Prequalification as indicated in Section B, Application Data Sheet (ADS), the Client, as defined in the ADS, issues this Prequalification Document (PD) to Applicants.

2. Scope of Application

- 2.1 Applicants are informed that the Client is proceeding with the Prequalification in one package considering the following disciplines of works:
 - a) "Civil Works". It consists of the following works including the development of the final design:
 - Tunneling Works,
 - Line Facilities,
 - Station Facilities,
 - Electromechanical Equipment including Air Conditioning, Ventilation, Elevators, Escalators, dewatering,
 - Depot Facilities (Civil Works only),
 - Possibly Public Utilities Relocation.
 - b) "Rail System". It consists of the following works including the development of the final design:
 - Rolling Stock,
 - System/Train Control System,
 - Operation Control Center,
 - Communication System,
 - Fare Collection System,
 - Traction Power and Energy,
 - Platform Screen Doors,
 - Track Works,
 - Enhancement of the current Dubai Metro Red and Green Line Systems
 - Maintenance Facilities including the Depot (Equipment only),
 - Maintenance during the initial years,

3. Financing of the project (Option)

- 3.1 The Applicants at this stage must indicate / provide a list of potential reputable financial institutions which may be interested to arrange Project financing facilities.
- 3.2 The potential financing institution indicated by the Applicants shall provide their track records by filling the Project Financing Forms 7 in Part 2 showing their compliance with the prequalification requirements specified in section C, Prequalification criteria. Please note this is not a mandatory requirement.



4. Prohibition of Corrupt Practices.

- 4.1 Applicants, Suppliers, Contractors, and Subcontractors are required to observe the highest standard of ethics during the procurement and execution of the contract and the following is stated:
 - (a) Definition, for the purposes of this provision, of the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Client, and includes collusive practices among applicants (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Client of the benefits of free and open competition;
 - (b) The Client will reject a proposal for award if it determines that the applicant recommended for award has engaged in corrupt or fraudulent practices in competing for the Contract; and
 - (c) The Client will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, the Contract.

5. Eligible Applicants

- 5.1 An Applicant shall be a legal entity or any combination of them with the formal intent to enter into an agreement or under an existing agreement in the form of a Consortium / Joint Venture to provide all the services required under this Application.
- 5.2 Applicants shall not have a conflict of interest. Applicants shall be considered to have a conflict of interest, if they participated as a consultant or associate in the preparation of the design or performance specifications of the works that are the subject of this prequalification.
- 5.3 Where a firm, or a firm from the same economic or financial group, in addition to consulting, also has the capability to manufacture or supply goods or to construct works, that firm, or a firm from the same economic or financial group, cannot normally be a supplier of goods or works, if it provided consulting services for the project corresponding to this prequalification, unless it can be demonstrated that there is not a significant degree of common ownership, influence or control



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B. Contents of the Prequalification Document

6. Sections of Prequalification Document

6.1 The document for the prequalification of Applicants (hereinafter "prequalification document") consists of parts 1 and 2 below and should be read in conjunction with any eventual Addenda issued in accordance with paragraph 8.

PART 1 Prequalification Procedures (1 volume A4 size)

PART 2 Application Forms (1 volumes A4 size)

- 6.2 The "Prequalification Procedures" and the "Application Forms" issued by the Client are part of the prequalification document.
- 6.3 The Client accepts no responsibility for the completeness of the prequalification document and its addenda unless they were obtained directly from the Client.
- 6.4 The Applicant is expected to examine all instructions, forms, and terms in the Prequalification Document and to furnish all information or documentation required by the Prequalification Document.

7. Clarification of Prequalification Document

7.1 A prospective Applicant requiring any clarification of the Prequalification Document shall contact the Client in writing at the Client's address indicated in the ADS. Should the Client respond to clarifications this will be provided no later than ten (10) days prior to the deadline for submission of applications. The Client shall forward copies of its response to all applicants who have acquired the prequalification document directly from the Client including a description of the inquiry but without identifying its source. Should the Client deem it necessary to amend the prequalification document as a result of a clarification, it shall do so following the procedure under paragraph 8 and in accordance with the provisions of paragraph 17.2.

8. Amendment of Pre-qualification Document

- 8.1 At any time prior to the deadline for submission of applications, the Client may amend the Prequalification Document by issuing addenda.
- 8.2 Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document from the Client.
- 8.3 To give prospective Applicants reasonable time to take an addendum into account in preparing their applications, the Client may, at its discretion, extend the deadline for the submission of applications.



C. Preparation of Applications

9. Cost of Applications

9.1 The Applicant shall bear all costs associated with the preparation and submission of its application. The Client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the prequalification process.

10. Language of Application

10.1 The application as well as all correspondence and documents relating to the prequalification exchanged by the Applicant and the Client, shall be written in the language specified in the ADS. Supporting documents and printed literature that are part of the application may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the language specified in the ADS, in which case, for purposes of interpretation of the application, the translation shall govern.

11. Documents Comprising the Application

- 11.1 The Applicant shall organize the Application submission as follows:
 - (a) Covering Letter,
 - (b) Application Submission Sheet, in accordance with paragraph 12;
 - (c) Application Forms, in accordance with paragraph 12;
 - (d) Documentary evidence establishing the Applicant's prequalification, in accordance with paragraph 14 and organized as structured in Section C, Prequalification Criteria, Paragraph 6, Point System Evaluation that shall be applied:
 - Volume 1: General and Administrative Issues,
 - Volume 2: Technical capability,
 - Volume 3: Financial Situation and Financing Capability.
 - (e) Any other document required as specified in the ADS.

Note: (a), (b) and (c) above should be presented in one package.

12. Application Forms

- 12.1 The Applicant shall fill in and complete all the blank spaces in the Application Forms in accordance with the instructions for each form indicated in Part 2, Application forms. The Applicant shall note that the forms included in Part 2 are for completion, except the Application Submission Sheet, and that the Applicant shall prepare its prequalification using the corresponding blank forms. Supplementary sheets may be added if sufficient space/sheets are not provided in the form
- 12.2 The Applicant shall prepare an Application Submission Sheet using the form furnished in Part 2, Application Forms. This Form must be completed without any alteration to its format.
- 12.3 In case of a Consortium / Joint Venture each member Company of the Consortium / Joint Venture must complete the prequalification form as specified in the relevant Application Forms.



13. Documents Establishing the Eligibility of the Applicant

13.1 To establish its eligibility in accordance with paragraph 5, the Applicant shall complete the eligibility declarations in the Application Submission Sheet and Forms 1 and 2 included in Part 2, Application Forms.

14. Documents Establishing the Prequalification of the Applicant

14.1 To establish its qualifications to perform the Contract in accordance with Section C, Prequalification Criteria, the Applicant shall provide ALL the information requested in the corresponding Information Sheets included in Part 2, Application Forms.

15. Signing of the Application and Number of Copies

- 15.1 The Applicant shall prepare one original of the documents comprising the application as described in paragraph 11 and clearly mark it "ORIGINAL". The original of the application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant.
- 15.2 The Applicant shall submit 2 copies of the signed original application, in the number specified in the ADS, and clearly stamp them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.
- 15.3 The Applicant shall also submit 3 CD's with the signed original application.



D. Submission of Applications

16. Sealing and Identification of Applications

- 16.1 The Applicant shall enclose the original and the copies of the application in a sealed envelope that shall:
 - (a) Bear the name and address of the Applicant;
 - (b) Be addressed to the Client, in accordance with paragraph 17.1; and
 - (c) Bear the specific identification of this prequalification process indicated in the ADS;
- 16.2 The Client will accept no responsibility for not processing any envelope that was delivered unsealed or not identified as required.

17. Deadline for Submission of Applications

- 17.1 Applications shall be received by the Client at the address and no later than the deadline indicated in the ADS. A receipt will be given for all applications submitted.
- 17.2 The Client may, at its discretion, extend the deadline for the submission of applications by amending the Prequalification Document in accordance with paragraph 8, in which case all rights and obligations of the Client and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.

18. Late Applications

18.1 Any application received by the Client after the deadline for submission of applications prescribed in paragraph 17 will be returned unopened to the Applicant.



E. Procedures for Evaluation of Applications

19. Confidentiality

- 19.1 Information relating to the evaluation of applications, and recommendation for prequalification, shall not be disclosed to Applicants or any other persons not officially concerned with such process until the notification of prequalification is made to all Applicants.
- 19.2 From the deadline for submission of applications to the time of notification of the results of the prequalification in accordance with paragraph 27, any Applicant that wishes to contact the Client on any matter related to the prequalification process, may do so but only in writing.

20. Clarification of Applications

- 20.1 To assist in the evaluation of applications, the Client may, at its discretion, ask any Applicant for a clarification of its application which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing.
- 20.2 If an Applicant does not provide clarifications of the information requested by the date and time set in the Client's request for clarification, its application may be rejected

21. Responsiveness of Applications

21.1 The Client may reject any application, which is not responsive to the requirements of the prequalification document.

22. Domestic Applicant Price Preference

22.1 Unless otherwise specified in the ADS, a margin of preference for domestic applicants shall not apply in the bidding process resulting from this prequalification. However, the non-domestic Applicants are advised to associate with domestic Companies.

23. Specialist Subcontractors

- 23.1 Applicants planning to subcontract any of the key activities indicated in Section C, Prequalification Criteria, shall specify the activity or parts of the works to be subcontracted in the Application Submission Sheet and clearly identify such activities and the proposed specialist subcontractors in Forms 2 and 4.2(b) in Part 2.
- 23.2 The Client may nominate certain specific parts of the Works.



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F. Evaluation of Applications and Prequalification of Applicants

24. Evaluation of Applications

- 24.1 The Client shall use all the factors, methods and criteria defined in Section C, Prequalification Criteria to evaluate the qualifications of the Applicants and any specialist subcontractors. The Client reserves the right to waive minor deviations in the prequalification criteria if they do not materially affect the capability of an Applicant to perform the contract.
- 24.2 Only the qualifications of specialist subcontractors that have been identified in the application may be considered in the evaluation of an Applicant.

25. Client's Right to Accept or Reject Applications

25.1 The Client reserves the right to accept or reject any application, and to annul the prequalification process and reject all applications at any time, without thereby incurring any liability to Applicants.

26. Prequalification of Applicants

26.1 All Applicants whose applications have met or exceeded the specified threshold criteria will, to the exclusion of all others, be prequalified by the Client.



G. Constitution of Consortium and Invitation to Bid

27. Constitution of Consortium / Joint Venture

- 27.1 After receiving the notification of the prequalification, the successful Applicants shall submit the constitution of the Consortium / Joint Venture to the Client at the address specified and not later than the date indicated in the ADS. A receipt will be given for all Consortium / Joint Venture submissions.
- 27.2 The constituted Consortium / Joint Venture shall nominate one of the Companies constituting the Consortium / Joint Venture as leader and sole representative in front of the Client and shall nominate the name/address/telephone/e-mail of the authorized representative with a Power of attorney from the prequalified Applicants constituting the Consortium / Joint Venture.

28. Invitation to Tender

- 28.1 Promptly after the notification of the receipt of the constituted Consortiums / Joint Ventures, the Client shall invite to tender from those consortia approved by the Client at the anticipated date specified in the ADS.
- 28.2 Tenderers will be required to provide tender security acceptable to the Client in the form and an amount as to be specified in the tender document, and the successful tenderer will be required to provide a performance security as to be specified in the tender document.

29. Changes in Qualifications of Consortium / Joint Venture

29.1 Any change in the structure or formation of a Consortium / Joint Venture after being prequalified in accordance with paragraph 26 and invited to tender shall be subject to written approval of the Client prior to the deadline for submission of tenders. Such approval shall be denied if as a consequence of the change the Applicant no longer substantially meets the prequalification criteria set forth in Section C, Prequalification Criteria, or if in the opinion of the Client, a substantial reduction in competition may result. Any such changes shall be submitted to the Client not later than 14 days after the date of the Invitation to Tender.



SECTION B. Application Data Sheet

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	Section B. Application Data Sheet						
A.	Introd	luction					
	1.1	The identification of the Request For Prequalification (RFQ) is:					
	1.2	The name of the Client is: ROADS & TRANSPORT AUTHORITY or any Entity identified by ROADS & TRANSPORT AUTHORITY					
aph (*)	1.3	The names, identification of the contract are: The Design & Build and Construction of Route 2020 Metro Rail Project.					
ITA Paragraph (*)	1.4	The name of the Project is: Route 2020					





В	B. Prequalification Document						
	2.1	For clarification purposes only, the Client's address is:					
		Attention: Roads & Transport Authority					
		Hussain Hassan Dossary,					
(*) hq		Head of Rail Contracts and Purchasing					
Paragraph							
Pare		Route 2020 Metro Project E-mail: <u>hussian.dossary@rta.ae</u>					
TAI		Cc: john.cheekanal@rta.ae					
-		Cc: <u>nasri.ejbara@rta.ae</u>					
		Cc: james.gravesande@parsons.com					
		Cc: cpdepartment@rta.ae					



С	C. Preparation of Applications					
(3.1	The language of the application as well as of all correspondence is: English				
Image: State of the state o						
Paragraph		Prequalification Document to be attached to the covering letter mentioned in paragraph 11.1.				
ITA	3.3	In addition to the Original , the number of copies to be submitted with the application is: Three (2) copies and (3) CD's				





D	. Sub	mission of Application
	4.1	For application submission purposes only, the Client's address is:
		Attention: Roads & Transport Authority Headquarters
		Head of Contracts & Purchasing Department
		Vendor Affairs Section
		Electronic mail addresses: <u>cpdepartment@rta.ae</u>
		Abdallah.shahin@rta.ae
(*) ר		Floor / Room : 1 st Floor, Block C
grapł		Street: Marrakesh Road
Paragraph (*)		Area: Umm Ramool
ITA		P.O Box: P.O. Box 118899
		City: Dubai
		Country: United Arab Emirates
		The deadline for application submission is:
		Date: 31 st May 2015
		Time: Before 12 noon UAE time



SECTION C. Prequalification Criteria

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SECTION C. PREQUALIFICATION CRITERIA

This Section contains all the factors, methods and criteria that the Client shall use to evaluate applications. The information to be provided in relation to each factor and the definitions of the corresponding terms are included in the respective **Part 2 Application Forms**.

The Applicant shall provide documented evidences of their track records as mentioned in the Prequalification Criteria hereafter. Otherwise Road & Transport Authority reserves the rights to disregard the Applicant's statement or application during the point assessment.

The Consortium's / Joint Ventures need to have the capabilities as detailed in scope of works highlighted in Section A paragraph 2 and illustrated in Section D. The Applicant must provide an Organisation Structure (Section 3b) that establishes the different entities that are to perform the works and how they interface with each other.

Road & Transport Authority do not Invite Consultants who are already engaged on RTA projects to be part of any Consortium / Joint Venture, thus seen as a Conflict of Interest.



Prequalification Criteria		Compliance Requirements			Documentation	
				Consortium /	Joint Venture	Submission
No.	Subject	Requirement	Single Entity	All Parties Combined	Each Party	Requirements
1. Eli	igibility					
	Conflict of Interest	No conflicts of interest in Section A – Instructions to Applicants.	Must meet requirement	Existing or intended Consortium / Joint Venture must meet requirement	Must meet requirement	Application Submission Shee
	Client's country law	Not having been excluded as a result of the Client's country laws or official regulations.	Must meet requirement	Must meet requirement	Must meet requirement	Application Submission Sheet



Prequalification Criteria		Compliance Requirements			Documentation	
Na		ubiect Demuinement	Oin als Eatitu	Consortium /	Joint Venture	Submission
No.	Subject	Requirement	Single Entity	All Parties Combined	Each Party	Requirements
2. F	inancial Situatio	n				
2.1	General Status	Submission of financial statements acceptable to the Client, for the last Five (5) years to demonstrate:	Must meet requirement	N / A	Must meet requirement	
		(a) the soundness of the applicants financial position and its prospective profitability, and	(a) Must meet requirement	(a) N / A	(a) Must meet requirement	Form 3.1 with attachments
		(b) minimum average annual turnover of Five Billions AED (AED 5,000,000,000)	(b) Must meet requirement	(b) Must meet requirement	(b) N / A	
2.2	Average Annual Construction/ Manufacturing Turnover	Minimum average annual construction/manufacturing turnover of Two Billions AED (AED 2,000,000,000), in similar works calculated as total certified payments received for contracts in progress or completed, within the last Five (5) years.	Must meet requirement	Must meet requirement	N/A	Form 3.2



	Prequalific	ation Criteria		Compliance Requirements		Documentation
No.	Subject	Requirement	Single Entity	Consortium / Joi		Submission
	Cubject	Requirement	olligie Entry	All Parties Combined	Each Party	Requirements
a. Exp	perience					
b. Org	anisation Structure					
		Thi	s page is left bla	ank intentionally.		

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	Prequa	alification Criteria		Compliance Requirement	nts	Documentation
No.	Subject	Requirement	Single Entity	Consortium / J All Parties Combined	oint Venture Each Party	Submission Requirements
3.1.1	General Construction Experience (Civil)	 ISO Certification of the Applicant. 	Must meet requirement	N/A	Must meet requirement	Demonstrate Applicable Certification
		 Experience under construction contracts in the role of contractor or management contractor for at least the last Ten (10) years prior to the applications submission deadline, and with activity in at least six (6) months in each year. 	Must meet requirement	N / A	Must meet requirement	Form 4.1
3.1.2	Specific Construction Experience (Civil)	Participation as contractor, subcontractor or management contractor in similar contracts that have been successfully and substantially completed in the last Ten (10) years where the Applicant's share of the aggregate of the contract amounts adds up to at least Three Billions AED (AED 3,000,000,000), and where the Applicant's share of the contract amount in at least One (1) contract is One Billion AED (AED 1,000,000,000). The similarity shall be based on the physical size, complexity, methods/ technology, contract performance and other characteristics as described in Section D, Description of Works.	Must meet requirement	Must meet requirement	N / A	Form 4.2(a) and Form 4.2(b)

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	Prequ	ualification Criteria		Compliance Requireme	nts	Documentation
Ne	Cubicat	Deminement	Cinalo Entitu	Consortium / J	Joint Venture	Submission
No.	Subject	Requirement	Single Entity	All Parties Combined	Each Party	Requirements
3.1.2 (cont')	(Civil)	For the above or other contracts executed during the period stipulated in 3.1.1 above, a construction experience in the following key activities showing ability to complete works elements as follows:	Must meet requirements	Must meet requirement	N / A	
		 Detailed design references for the key activities listed below, 				
		 Bored Tunnel with a minimum 8.5 m diameter, Construction of minimum 20 km tunnel of such a diameter during the last Ten (10) years, Construction of Diaphragm walls, Construction of minimum 10 km length of pre-stressed and precast viaduct/bridge during the last 10 years, Construction of minimum 10,000 m pilling, at least 1.2 m diameter, during the last Ten (10) years, 300,000 m² (floor area) of building finishing per year, air conditioning system of a 17,500kW capacity. 				Form 4.2 (a) and Form 4.2(b)

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	Prequ	alification Criteria		Compliance Requirement	nts	Documentation
No.	Subject	Requirement	Single Entity	Consortium / J All Parties Combined	loint Venture Each Party	Submission Requirements
3.1.3.	Resources Personnel (Civil)	 Qualified staff requirements to be as follows: 10% of the Engineering Workforce to have the following requirements: Engineers having at least 15 years of general experience, 10 years of which in tunnel construction, Engineers having at least 15 years experience, 10 years of which in pre-stressed and precast viaduct/bridges, Engineers having at least 15 years experience, 10 years of which in building construction Engineers having at least 15 years experience, 10 years of which in building construction Engineers having at least 15 years experience, 10 years of which in building construction Engineers having at least 15 years experience, 10 years of which in building construction 	Must meet requirements	Must meet requirements	N/A	Form 4.3
3.2.1	General Experience (Rail System)	 ISO Certification of the Applicant. Experience in System Contract in the role of management and/or System provider for at least the last Ten (10) years prior to the applications submission deadline. The Applicant should highlight his experience in the System Engineering, Interface and 	Must meet requirement Must meet requirement	N / A N / A	Must meet requirement Must meet requirement	ISO Certificate Form 4.1



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	Prequ	alification Criteria		Compliance Requirement	nts	Documentation
No.	Subject	Requirement	Single Entity	Consortium / J All Parties Combined	oint Venture Each Party	Submission Requirements
		Integration management especially between rolling stock and the signaling system.				
3.2.2	Specific Experience (Rail System)	Participation as System Manager and/or System provider in fully automatic metro driverless system that have been successfully and substantially completed in the last Ten (10) years where the Applicant's share of the aggregate of the contract amounts adds up to at least Three Billions AED (AED 3,000,000,000), and where the Applicant's share of the contract amount in at least One (1) contract is One Billion AED (AED 1,000,000,000). The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as described in Section D, Description of Works.	Must meet requirement	Must meet requirement	N / A	Form 4.2 (a) and Form 4.2(b)
3.2.2 (cont')	(Rail System)	 For the above or other contracts executed during the period stipulated in 3.2.1 above, a System Turnkey experience with reference in the following key activities showing ability to complete works elements as follows: Safety records on the 3 last Mass Transit Projects recently completed with contact name and coordinates of the Client's 	Must meet requirements	Must meet requirement	N/A	

Prequalification Procedure RAL/PPDD/067 – R20_PQ1_01



	Prequ	ualification Criteria		Compliance Requirements	5	Documentation
No.	Subject	Requirement	Single Entity	Consortium / Joi All Parties Combined	nt Venture Each Party	Submission Requirements
		 Safety Manager, At least one fully automatic metro driverless system successfully implemented with reliability records (RAMS) including records of disruption in at least the 2 first years of operation. Those records are to be detailed for the following performance indexes: Train operation delivery (actual trips versus planned trips), Train punctuality (% of train on time), Delay time (actual time versus scheduled time between terminal station), Supply of minimum average of 100 train cars per year during the last Ten (10) years, Supply of train cars operating in a fully automatic metro driverless system with operation headway to reach 90 seconds, Supply of on board train car air conditioning system in similar climatic conditions of the project, Successful implementation of multiservice network for communication between the line, 				Form 4.2 (a) and Form 4.2(b) For the reliability records, system overall performance reports, certified by the owner, to be provided.

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	Prequa	alification Criteria		Compliance Requiremer	nts	Documentation
No.	Subject	Requirement	Single Entity	Consortium / J		Submission
		 (number of smart card transaction per failure), Implementation of multimodal integrated automatic fare collection system such as metro/bus/park and ride/taxi, 		All Parties Combined	Each Party	Requirements
3.2.3.	Understanding of Route 2020 Metro Rail Project	The applicants are required to provide to the client through the Prequalification Application a note of understanding of the overall project and the works to be implemented.				Note of understanding of the overall project and the works to be implemented (10 pages maximum).
3.2.4.	Resources Personnel (Rail System)	 Qualified staff requirements to be as follows: 10% of the Engineering Workforce to have the following requirements. engineers having at least 8 years experience in rolling stock, engineers having at least 8 years experience in signaling, engineers having at least 8 years experience in signaling, engineers having at least 8 years experience in communications, engineers having at least 8 years experience in fare collection system, engineers having at least 8 years experience in fare system, engineers having at least 8 years experience in power supply, 	Must meet requirements	Must meet requirements	N / A	Form 4.3

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	Prequ	ualification Criteria		Compliance Requirement	nts	Documentation
No.	Subject	Requirement	Single Entity Consortium / J	oint Venture	Submission	
NO.	Subject	Requirement	Single Entity	All Parties Combined	Each Party	Requirements
3. His	storical Contrac	t Non Performance				
4.1	History of Non- Performing Contracts	Non performance of a contract did not occur within the last Five (5) years prior to the deadline for application submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one 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.	Must meet requirement by itself or as party to past or existing Consortium / Joint Venture	N/A	Must meet requirement by itself or as party to past or existing Consortium / Joint Venture	Form 5
4.2	Pending Litigation	All pending litigation and arbitration shall in total not represent more than Fifteen percent (15%) of the Applicant's net worth and shall be treated as resolved against the Applicant.	Must meet requirement by itself or as party to past or existing Consortium / Joint Venture	N / A	Must meet requirement by itself or as party to past or existing Consortium / Joint Venture	Forms 5 and 6
4. Ab	ility to Arrange	the Financing of the Project	<u> </u>		1	1
5.1	General Status	(a) Submission of audited financial statements acceptable to the Client, for the last Five (5) years to demonstrate the current soundness of the applicants financial position and its prospective long term profitability,	(a) Must meet requirement	(a) N/A	(a) Must meet requirement	Form 7.1



	Prequalification Criteria		Compliance Requirements			Documentation
No	. Subject	Requirement	Single Entity	Consortium / J All Parties Combined	oint Venture Each Party	Submission Requirements
		(b)Submission of experience in project financing, and most of all in transportation project and design & construction contracts as global loan lead mandated arrangement for the last Five (5) years	(b) Must meet requirement	(b) Must meet requirement	(b) N/A	Form 7.2, Form 7.3 And Form 7.4

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5. Point system Evaluation that shall be applied

<u>Roads & Transport Authority shall not disclose any additional information/Prequalification</u> assessment/Results related to this point system evaluation.

		Route 2020 Criteria fo	r Prequalifying Civil Work Contractors	
	Section Main Item (Weight)		Sub Items	
NO.	litle	Presentation	Description Quality of Submission	
	10	(3%)	Completeness of Submission and forms	
	Generals & Admin. Issues (9%)		Leadership	
	lmin. %)	Structure and organization (3%)	Number of parties involved	
	8 Adm (%6)	(3%)	Proposed setup	
	enerals		Consulting	
	Ğ	Local Involvement (3%)	Civil works	
			Electromechanical works	
			Iso Certification	
		General Experience (8%)	Areas of Experience (including Research and Development Capability)	
			System Integration Management	
			Overall No. of Metro Projects	
			Specific Experience (17%)	Overall Value of Metro Projects
			Contract Performance	
	SIE	Specific Experience in Key Activities (30%)	Detailed design for similar works	
	:10 yea		Length of tunnels constructed using TBM of 8.5 mt or more	
	Technical Capability in last 10 years (65%)		Experience in Diaphragm walls of 40-50 mt depth	
П			Experience in piling	
			Experience in precast/segment viaduct works	
	Techn		Experience in boring tunnels under waterways	
			Experience in AC works for Metros in similar conditions	
		Key Technical Staff	Experience in Metro Projects	
		(0%)	Number of Qualified staff	
			Overall number of staff year experience in similar works	
		No. of Years of Relevant Experience (5%)	Company years of experience in similar works	
		Plants & Equipment (5%)	No. & value of available plants & equipment	
			Average annual construction turnover in last 5 years	
			Value of works in last 5 years	
	ability		Capital value	
	Financial Situation & Financial Capability (26%)		Liquidity/indebtedness	
ш	& Financ (26%)	Financing Capability	Assets	
	ation 8 (2	(26%)	Profitability/Consistency	
	ıcial Situ		Litigation and historical contract non performance	
	Finan		No. of similar projects financed previously	
			Overall value of projects financed previously	
			Clarity of financing approach & up to date achievements	





		Criteria for	Prequalifying Rail System Suppliers
Sect		Main Item (Weight)	Sub Items
No.	Title	Presentation	Description Quality of Submission
	sues	(3%)	Completeness of Submission and forms
	Generals & Admin. Issues (8%)		Leadership
I.	د Adm (8%)	Structure and organization	Number of parties involved
	erals 8	(3%)	Proposed setup
	Gene	Local Involvement (2%)	Number of years in UAE/Middle East, number of staff, past projects in UAE/Middle East
			Iso Certification
		General Experience (8%)	Areas of Experience (including Research and Development Capability)
			System Integration Management
	SE	Specific Experience	Overall No. of Metro Projects
		(13%)	Overall Value of Metro Projects
			Past rail car production
	Technical Capability in last 10 years (66%)		Service quality records/ RAMS
	in last)	Specific Experience in Key Activities (30%)	Driverless operation @ 90 seconds headway capability
Ш	ability in (66%)		System integration/Interface management
	cal Capa		On board air conditioning in similar climatic conditions
	Techni		Experience in multimodal integrated automatic fare collection (metro/bus/park and ride)
		Key Technical Staff (5%)	Experience in Metro Projects
			Number of Qualified staff
			Overall number of staff year experience in similar works
		No. of Years of Relevant Experience (5%)	Company years of experience in similar works
		Understanding of Route 2020 Project (5%)	Understanding report
			Average annual construction turnover in last 5 years
			Value of works in last 5 years
	ability		Capital value
	ncial Cap		Liquidity/indebtedness
ш	Financial Situation & Financial Capability (26%)	Financial Capabilities (26%)	Assets
	tuation		Profitability/Consistency
	ncial Si		Litigation and historical contract non performance
	Fina		No. of similar projects financed previously
			Overall value of projects financed previously
			Clarity of financing approach & up to date achievements



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Criteria for evaluation of the Consortium / Joint Venture capability:

DISCIPLINE	POINTS ASSIGNED
Civil	25
Systems (Supply)	15
Systems (Integrator)	25
Rolling Stock	20
Financing Capability	15
TOTAL	100



SECTION D. Works Requirements

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1. PROJECT MAP AND ROUTE



ROUTE 2020 ALIGNMENT

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2. DESCRIPTION OF THE WORKS AND KEY OBJECTIVES

The project involves the design, construction, installation, testing and commissioning, system maintenance of the Route 2020 Metro Rail Project.

To facilitate and support Dubai's hosting of 2020 World EXPO, the Roads & Transport Authority are developing a link between the existing Dubai Metro Red Line adjacent to Sheikh Zayed Road to the EXPO 2020 site near Al Maktoum International Airport. The connection will add around 14 Km of track and as many as 7 (seven) new Metro Stations, 2 (tow) of which will be underground and the other elevated.

The project implementation includes the following works:

- a) Development of the design including civil works, electromechanical equipment and rail system,
- b) Geotechnical investigation and topographical surveys,
- c) Manufacturing and tunneling works,
- d) Lines facilities including viaduct, tunnel, cut and cover and all appropriate structures,
- e) Station facilities including the underground, elevated and at grade stations,
- f) Electromechanical equipment including air conditioning, ventilation, elevators, escalators, dewatering,
- g) Annexed structures along the line including ventilation structures, dewatering structures, fire brigade access,
- h) Arrangement works including mainly masonry works, damp & waterproofing, flooring, plaster works, suspended ceiling, wall facing, marble and granite works, painting works, metal works, glass and glazing, concrete works for arrangement, plumbing and sanitary works, electric works, miscellaneous such as waste bag holders, rotating barriers, seats, toilet partitions, sign board panels, ...
- i) Temporary works and measures necessary for the construction of the project,
- j) Development and implementation of a traffic management plan including constructing and maintaining temporary special routing, road and access as required for the works to be separated and interference with the actual roads, and furnishing, maintaining and relocating signs, barriers, and other safety devices to control traffic around and through the site and to protect against damage and injury,
- k) Public utilities relocation and protection,
- I) Construction of the depot facilities including civil works only,
- m) Implementation of the rail system including:
 - Rolling Stock
 - Automatic Train Control for non-attended train operation
 - Integrated Operation Control Centre (OCC)
 - Communication systems
 - Fare collection system
 - Power Supply and Distribution (for 750Vdc via 3 rail)



- Platform screen doors
- Track works
- Maintenance facilities
- System Enhancements to the current Dubai Metro Red and Green Line
- n) System integration tests including the trial tests and commissioning,
- o) System maintenance during the DLP.

The Key objectives of the project are:

- a) Connect the existing Metro Red Line to serve the EXPO 2020 site in time for the EXPO 2020
- b) Flexible and sustainable rail system serving the major developments along the route
- c) Promote transit share and forming part of Dubai-wide transit network
- d) Compatibility and smooth connection with the existing Red Line
- e) Deliver a safe, reliable, available and sustainable system

The Key challenges of the project are:

- a) Delivering a consistent operating system fully integrated with the existing Dubai Metro
- b) Ensuring safe, reliable and available operation of the existing Red Line during the construction of the extension
- c) Developing a construction schedule and integration approach that minimizes impact on the existing Red Line and allows opening in time
- d) Coordinate Construction Schedule and site access
- e) Optimize the use of energy efficient solutions
- f) Provide flexible train routes with short headways to cater for the ridership demand up to 2030
- g) Operate from the existing depots

Additional considerations:

Once the new line is in service, trains shall be able to operate seamlessly between the existing Red Line and the ROUTE 2020 line. The system shall be capable to offer the Operator with flexible routes and headway services and to be scalable to easily allow for planned extension at all ends of the network.

The new line must be completed so as to be able to serve the EXPO 2020. To ensure a reliable service is available at the time, the integrated system is required to be completed by December 2019.

