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Project-688/130

05 February 2025

INVITATION FOR EXPRESSION OF INTEREST (EOI)

Reference:

A. Invitation for Tender Number 18.13.0000.132.07.056.24 dated 12 November 2024.

1. Khulna Shipyard Ltd (KSY) invites expression of interest (EOI) from reputed supplier for supply and installation of access control services and surveillance system at all gates and port protected area of CPA with one year warranty and 03 (three) years repair and maintenance after warranty for the procuring entity as per Ref A. Brief description of the supply and installment work is as follows:

- a. **Brief Description of the Works.** Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.
- b. **Procuring Entity.** Chittagong Port Authority (CPA), Chittagong-4100, Bangladesh.
- c. The Intended Completion Date for the supply and installment work shall be within 180 days from the date of contract signing.

2. **Qualification of Bidder.** Interested suppliers should provide information indicating that they have the required qualifications and relevant experience to perform the task. The short-listing criteria for eligibility are as follows:

- a. The maximum 01 (one) number of arbitration with verdict against the tenderer over a period of last 05 (five) years. (Years counting backward from the date of publication of IFT in the newspaper).
- b. The supplier shall have a minimum of 5 (five) years of overall experience in the role of supplier in any Govt/Semi Govt Organization in Bangladesh. Necessary supporting documents (Completion Certificates, Notification of Award and Contract Agreement) must be submitted with the Tender Document (Years counting backward from the date of publication of IFT in the newspaper).
- c. The supplier must have specific experience in working with Access Control System, Security Surveillance System and other security gadget related services with maintenance thereof in any Govt/Semi Govt Organization including any ISPS Compliant Seaport(s) in Bangladesh for last 5(five) years each with a value of at least Taka 7(seven) Crore only;
- d. Also, the supplier must have experience in similar works of Total Taka 15 (Fifteen) crore within last 05 (Five) years.

- e. Necessary supporting documents of on-going works (Notification award and contract agreement and any other supporting documents) must be submitted with the tender (Years counting backward from the date of publication of IFT in the newspaper) The average annual turnover shall be greater than Tk 20 (Twenty) Crore over the last 05(five) years.
- f. The minimum amount of liquid assets i.e working capital or credit line(s) of the Tenderers shall be Tk 15 (Fifteen) Crore only.
- g. The supplier shall submit with its technical offer the following additional documents:

- (1) Copy of Valid Trade License.
- (2) National ID of the authorised person of the tenderer.
- (3) Bank Solvency Certificate as per ITT 15.1(b).
- (4) Copy of up-to-date Income tax payment certificate with TIN.
- (5) VAT Registration Certificate.
- (6) Company Certificate of Incorporation (in case of Limited Company).
- (7) Five (5) years Audit Report (reports on the financial standing, such as profit loss statements, audited balance sheet, etc.) of the supplier.
- (8) Necessary documents (Completion Certificates and any other documents) in support of experience are to be submitted with the Tender Document.
- (9) Specification submission & compliance sheet duly filled in.
- (10) Manufacturer's authorization (from OEM) document as per section 7 at Ref A.
- (11) Import Registration Certificate (IRC) from Ministry of Commerce, GoB.
- (12) Tender Security as per ITT 32.2 at Ref A in favour of CPA.
- (13) List of spare parts and consumables to be maintained by the supplier during 1 year warranty and 3 years maintenance period.
- (14) Brochure and detailed technical specifications for all the items in Section 6 at Ref A.

In case of failure to submit any of the above documents, the Tender will be non-responsive in the Technical Evaluation.

Necessary supporting documents for mentioned eligibility criteria must be provided with the EOI.

3. **Payment Terms.** Payment shall be made as per Terms of Payment clause 57 of Ref A.

4. **Scope of Supply of Supplier.**

- a. Supplier has to complete all the supply, installment and other related all works as per guideline of Ref A.
- b. Supplier will have the sole responsibility of conducting all supply and installment work as per terms and conditions at Ref A.
- c. Supplier has to arrange all the materials required for this supply and installment work.
- d. Supplier has to submit Tender Security during tender stage & Performance security after receiving NoA on behalf of KSY to procuring entity.
- e. Handling the government officials and labour unions shall be sole responsibility of the supplier. KSY will not be responsible for the same.

- f. It is the sole responsibility of the Supplier for the safe custody of the materials. KSY will not be responsible for any loss, damage or theft of materials.
- g. The Supplier shall be responsible for any damage caused to the Government property.

5. **KSY Scope of Supply.**

- a. Maintain liaison with Procuring Entity.
- b. Provide shipyard facilities and services at mutual agreement on cost to cost basis.

6. Interested supplier is hereby requested to contact following person:

Kazi Furkan Hossain
Assistant Engineer
Design & Planning Department
Khulna Shipyard Ltd, Bangladesh Navy, Khulna-9201
Cell: +8801711381378 (whatsapp)
Email: contact@khulnashipyard.gov.bd-
oicdpm.ksy@gmail.com

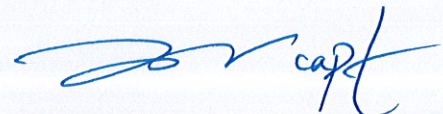
7. **Method of submission of EOI & Legal documents.** Expressions of interest along with supporting documents shall be sent by email as follows: contact@khulnashipyard.gov.bd; oicdpm.ksy@gmail.com & one original set with supporting documents must be submitted in sealed envelopes. This EOI notice is available in the website: www.khulnashipyard.gov.bd.

8. **Method of submission of Financial Offer.** Supervising charge of KSY i.e percentage of the total contract price (before VAT, IT or any other deduction) must be declare along with EOI. *email as follows: ksygmndnp@gmail.com.*

9. **Deadline to Submit the EOI.** Expression of Interest (EOI) by the interested suppliers for the aforementioned supply and installment works to be submitted to the Managing Director, Khulna Shipyard Ltd (KSY), Bangladesh Navy, Labonchara, Khulna-9201 within 13 February 2025. KSY reserves the right to reject EOIs received after the above deadline.

10. **Offer validity.** The offer should remain valid till 180 days from the date of tender opening.

11. KSY reserves the rights to reject any/ all EOIs without assigning any reasons whatsoever.



MD JULHASH UDDIN AHMED
Captain BN
For Managing Director

Enclosure:

1. Tender Document (Ref A) - 01 (One) Set.



CHITTAGONG PORT AUTHORITY

Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty

Invitation for Tender No: 18.13.0000.132.07.056.24

Issued on: 12/11/2024

Tender Package No: 01

Tender Lot No: 01



**Chittagong Port Authority
Invitation for Tender
Office Of The Director (Security)**

1	Ministry / Division		Ministry of Shipping		
2	Agency		Chittagong Port Authority (CPA)		
3	Procuring Entity Name		Chairman, Chittagong Port Authority, Chittagong, represented by Director (Security), Chittagong Port Authority, Chittagong.		
4	Procuring Entity Code		5205		
5	Procuring Entity District		Chittagong.		
6	Invitation for		Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.		
7	Invitation Ref No.		IFT No: 18.13.0000.132.07.056.24		
8	Date		12/11/2024		
9	KEY INFORMATION - Procurement Method		One Stage Two Envelope Tendering Method		
10	FUNDING INFORMATION		Chittagong Port Authority's own fund.		
11	Budget and Source of Funds Development Partners (if applicable)		None		
12	PARTICULAR INFORMATION		None		
	Project/Programme Code (if applicable)		None		
13	Project/Programme Name(if applicable)		None		
14	Tender Package No.		1 (One) number.		
15	Tender Package Name.		Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.		
16	Tender Publication Date		19/01/2025		
17	Tender Last Selling Date		16/02/2025		
18	Tender Closing Date and Time		17/02/2025 at 12-00 Hrs.		
19	Tender Opening Date and Time		17/02/2025 at 12-30 Hrs.		
20	Name and address of the Office(s)				
	- Selling Tender Documents		Office of the Director (Security), Chittagong Port Authority, Chittagong – 4100, Tel: 88-02 333310884		
	-Receiving Tender Document		-do-		
	-Opening Tender Document		-do-		
21	Place/Date/Time of Pre-Tender Meeting		Office of the Director (Security), Chittagong Port Authority, Chittagong – 4100, Tel:88-02 333310884, 28/01/2025 at 12:00 Hrs		
22	INFORMATION FOR TENDERER		Interested Experienced Tenderers. Details are mentioned in Tender Document.		
	Eligibility of Tenderer				
23	Brief Description of Goods		Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.		
24	Brief Description of Related Services		Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.		
25	Price of Tender Document (Tk.)		Taka 5,000 (Taka Five Thousand Only)		
26	Lot No.	Identification Lot	Point of Delivery	Tender Security Amount (Tk.)	Completion Time in days for Goods and related services.
27	1	Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.	Chittagong Port Authority Area.	Tk 70,00,000(Seventy) Lacs only.	180 Days from the contract signing date.
	Name of Official Inviting Tender		Lt Col Md Jahirul Islam,psc,EB		
28	Designation of Official Inviting Tender		Director (Security)		
29	Address of Official Inviting Tender		Office of the Director (Security), Chittagong Port Authority, Chittagong – 4100		
30	Contact details of Official Inviting Tender		Tel: 88-02 333310884		
31	The Procuring Entity reserves the right to accept any or reject all tenders.				
32	This tender will be guided in accordance with "The Public Procurement Act-2006 and Rules 2008".				

Director (Security)
Chittagong Port Authority
Chittagong-4100

Table of Contents

Section 1. Instructions to Tenderers.....	1
A. General	1
1. Scope of Tender	1
2. Interpretation	1
3. Source of Funds	1
4. Corrupt, Fraudulent, Collusive, Coercive (or Obstructive in case of Development Partner) Practices.....	2
5. Eligible Tenderers.....	4
6. Eligible Plant and Services	5
7. Site Visit.....	5
B. Tender Document	6
8. Tender Document: General.....	6
9. Clarification of Tender Document	6
10. Pre-Tender Meeting.....	7
11. Addendum to Tender Document	7
C. Qualification Criteria.....	8
12. General Criteria	8
13. Litigation History	8
14. Experience Criteria	8
15. Financial Criteria.....	8
16. Personnel Capacity	9
17. Equipment Capacity	9
18. Joint Venture, Consortium or Association	9
19. Subcontractor(s)	9
D. Tender Preparation	10
20. Only one Tender.....	10
21. Cost of Tendering	10
22. Issuance and Sale of Tender Document	10
23. Language of Tender	11
24. Contents of Tender	11
(Document establishing the tender's qualification).....	11
25. Alternatives	13
26. Tender Prices, Discounts & Price adjustment	13
27. Tender Currency.....	16
28. Documents Establishing the Conformity of Plant, and Services	16
29. Documents Establishing Eligibility of the Tenderer	17
30. Validity Period of Tender	17
31. Extension of Tender Validity and Tender Security	17
32. Tender Security	18
33. Form of Tender security	18
34. Authenticity of Tender Security	18
35. Return of Tender Security	19
36. Forfeiture of Tender Security.....	19
37. Format and Signing of Tender.....	20
E. Tender Submission.....	20
38. Sealing, Marking and Submission of Tender.....	20
39. Deadline for Submission of tenders	21
40. Late tender	22
41. Modification, Substitution or Withdrawal of Tenders	22
42. Tender Modification	22
43. Tender Substitution	22
44. Withdrawal of Tender	23
F. Tender Opening and Evaluation	23
45. Tender Opening.....	23

46. Evaluation of Tenders.....	25
47. Evaluation Process.....	25
48. Preliminary Examination.....	25
49. Technical Evaluation and Responsiveness.....	26
50. Clarification on Technical Offer	28
51. Restrictions on Disclosure of Information	28
52. Approval of Technical Offer	28
53. Financial Offer Opening.....	28
54. Clarification on Financial Offer	29
55. Correction of Arithmetical Errors	29
56. Conversion to Single Currency.....	30
57. Financial Evaluation	30
58. Price Comparison	31
59. Post-qualification	32
60. Negotiation	33
61. Rejection of All Tenders	33
62. Informing Reasons for Rejection	34
G. Contract Award	34
63. Award Criteria.....	34
16. 64. Notification of Award	34
65. Performance Security	35
66. Form and Time Limit for furnishing of Performance security	35
67. Validity of Performance Security	35
68. Authenticity of performance Security.....	35
69. Contract Signing	36
70. Publication of Notification of Award of Contract	36
71. Debriefing of Tenderers.....	36
72. Right to Complain	36
Section 2. Tender Data Sheet.....	38
A. General	38
B. Tender Document	38
C. Qualification Criteria.....	39
D. Tender Preparation	40
E. Submission of Tender	41
F. Opening and Evaluation of Tenders	42
G. Award of Contract.....	42
Section 3. General Conditions of Contract.....	43
A. General	43
1. Definitions.....	43
2. Interpretation	47
3. Communications & Notices	48
4. Governing Law	48
5. Governing Language.....	48
6. Documents Forming the Contract and Priority of Documents.....	48
7. Contract Agreement	49
8. Assignment	49
9. Eligibility.....	49
10. Gratuities / Agency fees	49
11. Confidential Details.....	49
12. Joint Venture (JV).....	50
13. Possession of the Site	50
14. Access to the Site	51
15. Safety, Security and Protection of the Environment.....	51
16. Working Hours.....	51
17. Welfare of Laborers	51

18. Child Labor	51
19. Fossils& antiquities	52
20. Corrupt, Fraudulent, Collusive or Coercive Practices	52
21. License/ Use of Technical Information	53
B. Subject Matter of Contract	54
22. Scope of Facilities	54
23. Time for Commencement	54
24. Time for Completion	54
25. Employer's Responsibilities	55
26. Contractor's Responsibilities	56
27. Employer's and Contractor's Risks	56
28. Employer's Risks	56
29. Contractor's Risks	57
C. Execution of the Facilities	57
30. Representatives	57
31. Work Program	59
32. Subcontractor	60
33. Nominated Subcontractor	60
34. Other Contractors	60
35. Design and Engineering	61
36. Procurement	62
37. Installation	63
38. Test & Inspection	67
39. Completion of the Facilities	68
40. Commissioning and Operational Acceptance	70
D. Guarantees and Liabilities	72
41. Completion Time Guarantee	72
42. Defect Liability	73
43. Functional Guarantees	75
44. Patent Indemnity	76
45. Limitation of Liability	77
E. Risk Distribution	77
46. Transfer of Ownership	77
47. Care of Facilities	77
48. Loss of or Damage to Property; Accident or Injury to Workers; Indemnification	78
49. Insurance	79
50. Unforeseen Conditions	81
51. Change in Laws and Regulation	82
52. Force Majeure	83
53. Notice of Force Majeure	83
54. Duty to Minimize Delay	83
55. Consequences of Force Majeure	84
F. Payment	84
56. Contract Price	84
57. Terms of Payment	85
58. Advance Payment Security	85
59. Performance Security	85
60. Taxes and Duties	86
61. Payments to Nominated Subcontractor(s)	86
62. Price Adjustment	86
63. Liquidated Damages	87
G. Change in Contract Elements	87
64. Change in the Facilities	87
65. Extension of Time for Completion	90
66. Suspension	91
H. Termination and Settlement of Disputes	92
67. Termination	92

68. Payment upon Termination	94
69. Property	95
70. Frustration.....	95
I. Claims, Disputes and Arbitration	95
71. Contractor's Claims	95
72. Settlement of Disputes	96
Section 4. Particular Conditions of Contract.....	97
Appendix 1. Terms and Procedures of Payment.....	102
Appendix 2. Price Adjustment	103
Appendix 3. Insurance Requirements.....	104
Appendix 4. Time Schedule	105
Appendix 5. List of Major Items of Plant and Services and List of Approved Subcontractors	106
Appendix 6. Scope of Works and Supply by the Employer	122
Appendix 7. List of Documents for Approval or Review.....	123
Appendix 8. Functional Guarantees.....	124
Section 5. Tender and Contract Forms	125
Tender Submission Letter for Technical offer	126
(Form PG5A-1a).....	126
Tender Submission Letter for Financial offer	129
(Form PG5A-1b).....	129
Tenderer Information (Form PG5A-2a)	132
JVCA Partner Information (Form PG5A-2b).....	136
Subcontractor Information (Form PG5A-2c)	140
Price Schedule for Plant and Service (Form PG5A-3)	142
Technical Proposal (Form PG5A-4).....	156
Manufacturer's Authorisation Letter (Form PG5A - 5).....	176
Bank Guarantee for Tender Security (Form PG5A- 6).....	177
Letter of Commitment for Bank's undertaking for Line of Credit (Form PG5A-6a)...	178
Notification of Award (Form PG5A - 7).....	179
Contract Agreement (Form PG5A - 8)	179
Bank Guarantee for Performance Security (Form PG5A – 9).....	182
Bank Guarantee for Advance Payment (Form PG5A – 10).....	183
Bank Guarantee for Retention Money Security (Form PG5A-11)	184
Section 6. Employer's Requirements.....	185
6.2 Specification	Error! Bookmark not defined.
6.3 Form of Completion Certificate	Error! Bookmark not defined.
6.4 Form of Operational Acceptance Certificate	Error! Bookmark not defined.
6.5 Form of Change Order Procedure and Forms	202
Annex 1. Request for Change Proposal	204
Annex 2. Estimate for Change Proposal	206
Annex 3. Acceptance of Estimate	207
Annex 4. Change Proposal.....	208
Annex 5. Change Order.....	210
Annex 6. Pending Agreement Change Order.....	211
Section 7. Drawings	214

Section 1. Instructions to Tenderers

A. General

1. Scope of Tender	<p>1.1 The Purchaser named in the Tender Data Sheet (TDS) (hereinafter referred to as the “Purchaser”) wishes to issue these Tender Documents for the supply and installation of plant & equipment incidental thereto, as specified in the TDS and as detailed in Section 6: Employer’s Requirements.</p> <p>1.2 The name of the Tender and the number and identification of its constituent lot(s) are stated in the TDS.</p> <p>1.3 Unless otherwise stated, throughout this Tender Document definitions and interpretations shall be as prescribed in the Section 3: General Conditions of Contract.</p>
2. Interpretation	<p>2.1 Throughout this Tender Document</p> <ul style="list-style-type: none"> (a) the term “in writing” means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail; (b) if the context so requires, singular means plural and vice versa; and (c) “day” means calendar days unless otherwise specified as working days; (d) "Tender Document ", means the Document provided by a Purchaser to a Tenderer as a basis for preparation of its Tender; (e) "Tender ", depending on the context, means a Tender submitted by a Tenderer for delivery of Goods and Related Services to a Purchaser in response to an Invitation for Tender ;
3. Source of Funds	<p>3.1 The Purchaser has been allocated public funds from the source as indicated in the TDS and intends to apply a portion of the funds to eligible payments under the contract for which this Tender Document is issued.</p> <p>3.2 For the purpose of this provision, “public funds” means any funds allocated to a Purchaser under Government budget, or loan, grants and credits placed at the disposal of a Purchaser through the Government by the development partners or foreign states or organizations.</p> <p>3.3 Payments by the development partner, if so indicated in the TDS, will be made only at the request of the Government and upon approval by the development partner in accordance with the applicable Loan/Credit/Grant Agreement, and will be subject in all respects to the terms and conditions of that Agreement.</p>

<p>4. Corrupt, Fraudulent, Collusive, Coercive (or Obstructive in case of Development Partner) Practices</p>	<p>4.1 The Government and the Development Partner, if applicable requires that the Procuring Entity as well as the Tenderers and Contractors (including , sub-contractors, agents, personnel, consultants, and service providers) shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.</p> <p>4.2 For the purposes of ITT Sub Clause 4.3, the terms set forth below as follows:</p> <ul style="list-style-type: none"> (a) “corrupt practice” means offering, giving or promising to give, receiving, or soliciting either directly or indirectly, to any officer or employee of the Procuring Entity or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by the Procuring Entity in connection with a Procurement proceeding or Contract execution; (b) “fraudulent practice” means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution; (c) “collusive practice” means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Procuring Entity, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying the Procuring Entity the benefits of competitive price arising from genuine and open competition; (d) “coercive practice” means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders. (e) “Obstructive practice” (applicable in case of Development Partner) means deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation. <p>4.3 Should any corrupt, fraudulent, collusive, coercive (or obstructive in case of Development Partner) practice of any kind is determined by the Procuring Entity or the Development Partner, if applicable, this will be dealt in accordance with the provisions of the Public Procurement Act and Rules and Guidelines of the Development Partners as stated in the ITT sub-clause 3.3.</p>
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	In case of obstructive practice, this will be dealt in accordance with Development Partners Guidelines.
	<p>4.4 If corrupt, fraudulent, collusive, coercive (or obstructive in case of Development Partner) practices of any kind is determined by the Procuring Entity against any Tenderer or Contracts (including sub-contractors, agents, personnel, consultants, and service providers) in competing for, or in executing, a contract under public fund:</p> <ul style="list-style-type: none"> (a) Procuring Entity and/or the Development Partner shall exclude the concerned Tenderer from further participation in the concerned procurement proceedings; (b) Procuring Entity and/or the Development Partner shall reject any recommendation for award that had been proposed for that concerned Tenderer; (c) Procuring Entity and/or the Development Partner shall declare, at its discretion, the concerned Tenderer to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time; (d) Development Partner shall sanction the concerned Tenderer or individual, at any time, in accordance with prevailing Development Partner' sanctions procedures, including by publicly declaring such Tenderer or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Development Partner-financed contract; and (ii) to be a nominated sub-contractor, consultant, manufacturer or Contractor, or service provider of an otherwise eligible firm being awarded a Development Partner-financed contract; and (e) Development Partner shall cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Procuring Entity or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, coercive or obstructive practices during the procurement or the execution of that Development Partner financed contract, without the Procuring Entity having taken timely and appropriate action satisfactory to the Development Partner to remedy the situation. <p>4.5 Tenderer shall be aware of the provisions on corruption, fraudulence, collusion, coercion (and obstruction, in case of Development Partner) of the Public Procurement Act, 2006, the Public Procurement Rules, 2008 and others as stated in GCC Clause 38.</p> <p>4.6 In further pursuance of this policy, Tenderers, Contractors and their sub-contractors, agents, personnel, consultants, service providers shall permit the Government and the Development Partner to inspect any accounts and records and other documents relating to the Tender submission and</p>

	contract performance, and to have them audited by auditors appointed by the Government and/or the Development Partner during the procurement or the execution of that Development Partner financed contract.
5. Eligible Tenderers	<p>5.1 This Invitation for Tenders is open to all potential Tenderers from all countries, except for any specified in the TDS.</p> <p>5.2 Tenderers shall have the legal capacity to enter into the Contract under the Applicable law.</p> <p>5.3 Tenderers shall be enrolled in the relevant professional or trade organisations registered in Bangladesh.</p> <p>5.4 Tenderers may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture(JV) invited to take part in public procurement or seeking to be so invited or submitting a Tender in response to an Invitation for Tenders.</p> <p>5.5 Tenderers shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin.</p> <p>5.6 Tenderers should not be associated, or have been associated in the past, directly or indirectly, with a consultant or any of its affiliates which have been engaged by the Procuring Entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the works to be performed under this Invitation for Tenders.</p> <p>5.7 Tenderers in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive or coercive practices as stated under ITT Sub Clause 4.4 (or obstructive practice, in case of Development Partner) in relation to the Development Partner's Guidelines in projects financed by Development Partner.</p> <p>5.8 Tenderers are not restrained or barred from participating in Public Procurement on grounds of poor performance in the past under any Contract.</p> <p>5.9 Tenderers shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.</p> <p>5.10 Government-owned enterprise in Bangladesh may also participate in the Tender if it is legally and financially autonomous, it operates under commercial law, and it is not a dependent agency of the Procuring Entity.</p> <p>5.11 Tenderers shall provide such evidence of their continued eligibility satisfactory to the Procuring Entity, as the Procuring Entity will reasonably request.</p>

	<p>5.12 These above requirements for eligibility will extend, as applicable, to each JV partner and Subcontractor proposed by the Tenderers.</p> <p>5.13 Tenderers shall have the up-to-date valid license(s), issued by the corresponding competent authority, as specified in the TDS.</p>
6. Eligible Plant and Services	<p>6.1 The plant and services to be supplied under the contract are eligible, unless their origin is from a country specified in the TDS and all expenditures under the contract will be limited to such plant, and services.</p> <p>6.2 For purposes of this Clause, the term “plant” means permanent plant, equipment, machinery, apparatus, articles and things of all kinds to be provided in the facilities; and “installation services” means all those services ancillary to the supply of the Plant for the Facilities, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation, installation, testing, pre-commissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training etc</p> <p>6.3 For purposes of this clause, “origin” means the place where the plant, or component parts thereof are mined, grown, produced or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially different in its basic characteristics or in purpose or utility from its components or country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.</p> <p>6.4 The origin of plant & equipment is distinct from the nationality of the Tenderer. The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.</p>
7. Site Visit	<p>7.1 The Tenderer is advised to visit and examine the site where the plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the tender and entering into a contract for the provision of Plant and Installation Services.</p> <p>7.2 The Tenderer and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Tenderer, its personnel, and agents will release and indemnify the</p>

	Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
	7.3 The Tenderer should ensure that the Purchaser is informed of the visit in adequate time to allow it to make appropriate arrangements.
	7.4 The costs of visiting the Site shall be at the Tenderer's own expense.
B. Tender Document	
8. Tender Document: General	8.1 The Sections comprising the Tender Document are listed below, and should be read in conjunction with any Addendum issued under ITT Clause 11. <ul style="list-style-type: none"> • Section 1 Instructions to Tenderers (ITT) • Section 2 Tender Data Sheet (TDS) • Section 3 General Conditions of Contract (GCC) • Section 4 Particular Conditions of Contract (PCC) • Section 5 Tender and Contract Forms • Section 6 Employer's Requirements • Section 7 Drawings
	8.2 The Purchaser shall reject any Tender if the Tender Document was not purchased directly from the Purchaser, or through its agent as stated in the TDS .
	8.3 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document as well as addendum to Tender Documents.
9. Clarification of Tender Document	9.1 A prospective Tenderer requiring any clarification of the Tender Document shall contact the Purchaser in writing at the Purchaser's address indicated in the TDS before two-third of time allowed for preparation and submission of Tender elapses.
	9.2 The Procuring Entity is not obliged to answer any clarification request received after that date as stated under ITT Sub Clause 9.1.
	9.3 The Procuring Entity shall respond in writing within five (5) working days of receipt of any such request for clarification received under ITT Sub Clause 9.1.
	9.4 The Procuring Entity shall forward copies of its response to all those who have purchased the Tender Document, including a description of the enquiry but without identifying its source.
	9.5 Should the Procuring Entity deem it necessary to revise the Tender Document as a result of a clarification, it will do so following the procedure under ITT Clause 11.

10. Pre-Tender Meeting	<p>10.1 To clarify issues and to answer questions on any matter arising in the Tender Document, the Purchaser may, if stated in the TDS, hold a Pre-Tender Meeting at the place, date and time as specified in the TDS. All Potential Tenderers are encouraged to attend the meeting, if it is held.</p> <p>10.2 Minutes of the pre-Tender meeting, including the text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted within one week (7 days) after holding the meeting to all those who purchased the Tender Document and even those who did not attend the meeting.</p> <p>10.3 Any amendment to the Tender Documents listed in ITT Sub-Clause 8.1 that may become necessary as a result of the pre-Tender meeting shall be made by the Purchaser exclusively through the issue of an Addendum as stated under ITT Sub-Clause 11 and not through the minutes of the pre-Tender meeting.</p> <p>10.4 Non-attendance at the Pre-Tender meeting will not be a cause for disqualification of a Tenderer.</p>
11. Addendum to Tender Document	<p>11.1 At any time prior to the deadline for submission of Tenders, the Purchaser on its own initiative or in response to a clarification request in writing from a Tenderer, having purchased the Tender Document or as a result of a Pre-Tender meeting, may revise the Tender Document by issuing an addendum pursuant to Rule 95 of the Public Procurement Rules, 2008.</p> <p>11.2 The addendum issued under ITT Sub-Clause 11.1 shall become an integral part of the Tender Document and shall have a date and an issue number and shall be circulated by fax, mail or e-mail, to Tenderers who have purchased the Tender Documents within five (5) working days of issuance of such addendum, to enable Tenderers to take appropriate action.</p> <p>11.3 The Tenderer shall acknowledge receipt of an addendum.</p> <p>11.4 Tenderers who have purchased the Tender Documents but have not received any addendum issued under ITT Sub-clause 11.1 shall inform the Purchaser of the fact by fax, mail or e-mail before two-third of the time allowed for the submission of Tenders has elapsed.</p> <p>11.5 Procuring Entities shall also ensure posting of relevant addenda with the reference number and date on their website.</p> <p>11.6 To give a prospective Tenderer reasonable time in which to take an amendment into account in preparing its Tender, the Purchaser may, at its discretion, extend the deadline for the submission of Tenders, pursuant to Rule 95(6) of the Public Procurement Rule, 2008 and under ITT Clause 36.</p>

	<p>11.7 If an addendum is issued when time remaining is less than one-third of the time allowed for the preparation of Tenders, a Purchaser shall extend the deadline by an appropriate number of days for the submission of Tenders, depending upon the nature of the Procurement requirement and the addendum. The minimum time for such extension shall not be less than seven (7) days.</p>
<p>C. Qualification Criteria</p>	
<p>12. General Criteria</p>	<p>12.1 The Tenderer shall possess the necessary professional and technical qualifications and competence, financial resources, equipment and other physical facilities, managerial capability, specific experience, reputation, and the personnel, to perform the contract.</p> <p>12.2 In addition to meeting the eligibility criteria, as stated in ITT Clause 5, the Tenderer must satisfy the other criteria stated in ITT Clauses 13 to 15 inclusive.</p> <p>12.3 To qualify for multiple number of contracts/lots in a package made up of this and other individual contracts/lots for which tenders are invited in the Invitation for Tenders, the Tenderer shall demonstrate having resources and experience sufficient to meet the aggregate of the qualifying criteria for the individual contracts.</p>
<p>13. LitigationHistory</p>	<p>13.1 The maximum number of arbitration awards against the Tenderer over a period shall be as specified in the TDS.</p>
<p>14. Experience Criteria</p>	<p>14.1 Tenderers shall have the following minimum level of supply experience to qualify for supplying the Plant and Services under the contract:</p> <ul style="list-style-type: none"> (a) a minimum number of years of general experience in the role of Contractor or Subcontractor or Management Contractor as specified in the TDS; and (b) Specific experience as a Contractor or Subcontractor or Management Contractor that are similar to the proposed plant and services in at least a number of contract(s) and of a minimum value over the period, as specified in the TDS.
<p>15. Financial Criteria</p>	<p>15.1 Tenderers shall have the following minimum level of financial capacity of qualify for the supply, execution and performance of plant and services under the contract.</p> <ul style="list-style-type: none"> (a) the average annual turnover as specified in the TDS calculated as total certified payments received for contracts in progress or completed, during the period specified in the TDS; (b) availability of minimum liquid assets or working capital or credit facilities, as specified in the TDS; and;

	(c) satisfactory resolution of all claims, arbitrations or other litigation cases and shall not have serious negative impact on the financial capacity of the Tenderer.
16. Personnel Capacity	<p>16.1 The Tenderer shall have the following minimum level of personnel capacity to qualify for the performance of the plant and services under the Contract.</p> <p>A Project Manager, Engineers, and other key staff with qualifications and experience as specified in the TDS;</p>
17. Equipment Capacity	<p>17.1 The Tenderer shall own suitable equipment and other physical facilities or have proven access through contractual arrangement to hire or lease such equipment or facilities for the desired period, where necessary or have assured access through lease, hire, or other such method, of the essential equipment, in full working order, as specified in the TDS.</p>
18. Joint Venture, Consortium or Association	<p>18.1 The Tenderer may participate in the procurement proceedings forming a Joint Venture, Consortium or Associations (JVCA) by an agreement, executed case by case on a non judicial stamp of value as stated in TDS or alternately with the intent to enter into such an agreement supported by a Letter of Intent along with the proposed agreement duly signed by all partners of the intended JVCA and authenticated by a Notary Public.</p>
	<p>18.2 The figures for each of the partners of a JVCA shall be added together to determine the Tenderer's compliance with the minimum qualifying criteria; however, for a JVCA to qualify, lead partner and its other partners must meet the criteria stated in the TDS. Failure to comply with these requirements will result in rejection of the JVCA Tender. Subcontractors' experience and resources will not be taken into account in determining the Tenderer's compliance with the qualifying criteria.</p>
	<p>18.3 Each partner of the JVCA shall be jointly and severally liable for the execution of the Contract, all liabilities and ethical and legal obligations in accordance with the Contract terms.</p>
	<p>18.4 The JVCA shall nominate a Representative (partner-in-charge/Lead Firm) who shall have the authority to conduct all business for and on behalf of any and all the partners of the JVCA during the tendering process and, in the event the JVCA is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JVCA.</p>
	<p>18.5 Each partner of the JVCA shall complete the JVCA Partner Information (Form PG5A-2b) for submission with the Tender</p>
19. Subcontractor(s)	<p>19.1 Tenderer, pursuant to Rule 53 of the PPR2008, is allowed to sub-contract a portion of the Supply.</p>
	<p>19.2 The Tenderer shall specify in its Tender all portion of the Plant and Services that will be subcontracted, if any,</p>

	including the entity(ies) to whom each portion will be subcontracted to, subject to the maximum allowable limit for subcontracting of Plant and Services specified in the TDS .
19.3	The Purchaser may require Tenderers to provide more information about their subcontracting arrangements. If any Subcontractor is found ineligible or unsuitable to carry out the subcontracted tasks, the Procuring Entity may request the Tenderer to propose an acceptable substitute.
19.4	The Purchaser may also select nominated Subcontractor(s) to execute certain specific components of the Works and if so, those will be specified in the TDS .
19.5	The successful Tenderer shall under no circumstances assign the goods/works/services or any part of it to a Subcontractor
19.6	Subcontractors must comply with the provision of ITT Clause 5. For this purpose contractor shall complete the Subcontractor's information in Form PG5A-2c for submission with tender
19.7	If the Purchaser determines that a subcontractor is ineligible, the subcontracting of such portion of the Plants and Services assigned to the ineligible subcontractor shall be disallowed
D. Tender Preparation	
20. Only one Tender	20.1 If a Tender for Plant and Services is invited on 'lot-by-lot' basis, each lot shall constitute a tender. A Tenderer shall submit only one (1) Tender for each lot, either individually or as a JVCA. The Tenderer who submits or participates in more than one (1) Tender for each lot will cause all the Tenders with that Tenderer's participation to be rejected.
21. Cost of Tendering	21.1 Tenderers shall bear all costs associated with the preparation and submission of its Tender, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.
22. Issuance and Sale of Tender Document	22.1 A Purchaser, pursuant to Rule 94 of the Public Procurement Rules, 2008 shall make Tender Documents available immediately to the potential Tenderers, requesting and willing to purchase at the corresponding price if the advertisement has been published in the newspaper pursuant to Rule 90 of the Public Procurement Rules, 2008.
	22.2 Full contact details with mailing address, telephone and facsimile numbers and electronic mail address, as applicable, of those to whom Tender Documents have been issued shall be recorded with a reference number by the Purchaser or its agent.
	22.3 There shall not be any pre-conditions whatsoever, for sale of Tender Document and the sale of such Document shall

	be permitted up to the day prior to the day of deadline for the submission of Tender.
23. Language of Tender	23.1 Tenders shall be written in the English language. Correspondences and documents relating to the Tender may be written in English or <i>Bangla</i> . Supporting documents and printed literature furnished by the Tenderers that are part of the Tender may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the English or <i>Bangla</i> language, in which case, for purposes of interpretation of the Tender, such translation shall govern.
	23.2 Tenderers shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.
24. Contents of Tender(Document establishing the tender's qualification)	24.1 The Tender prepared by the Tenderers shall comprise Two Envelope submitted simultaneously, one called the Technical Offer (Envelope-01) containing the documents listed in ITT 24.2 and other called the Financial Offer containing the documents listed in 24.3, both envelopes enclosed together in an outer Single envelope.
	24.2 The Technical Offer (Envelope-01) prepared by the Tenderers will comprise the following: <ul style="list-style-type: none"> (a) Technical Submission Letter (Form PG5A-1a) as furnished in Section 5: Tender and Contract Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested (b) Tenderer Information Sheet (Form PG5A-2) as furnished in Section 5: Tender and Contract Forms; (c) Tender Security as stated under ITT Clause 32,33 and 34; (d) Technical Proposal (Form PG5A-4) as furnished in Section 5: Tender and Contract Forms. (e) Alternatives, if permitted, as stated under with ITT Clause 25; (f) Written confirmation authorising the signatory of the Tender to commit the Tenderer, as stated under ITT Sub-Clause 37.3; (g) The completed eligibility declarations, to establish its eligibility as stated under ITT Clause 5, in the Tender Submission Sheet (Form PG5A-1a & 1b), as furnished in section 5: Tender and Contract Forms; (h) An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Tenderer or employees of a Tenderer entering into or signing a Contract with

	<p>the Purchaser as stated under ITT clause 5;</p> <ul style="list-style-type: none"> (i) An affidavit confirming that the Tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing as stated under ITT Clause 5; (j) A certificate issued by the competent authority stating that the Tenderer is a Tax payer having valid Tax Identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Purchaser demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfillment of taxation obligations as stated under ITT Clause 5. In the case of foreign Tenderers, a certificate of competent authority in that country of which the Tenderer is citizen shall be provided ; (k) Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh or in case of foreign tenderer in their country of origin or a certificate concerning their competency issued by a professional institution in accordance with the law of the country of their origin, as stated under ITT Clause 5; (l) The country of origin declarations, to establish the eligibility of the Plant and Services as stated under ITT Clause 6, in the Price Schedule for Plant and Services (Form PG5A-3) as, applicable, furnished in Section 5: Tender and Contract Forms; (m) Documentary evidence as stated under ITT Clauses 28, that the Goods and Related Services conform to the Tender Documents; (n) Documentary evidence as stated under ITT Clause 29 that the Tenderer's qualifications conform to the Tender Documents; (o) Documents establishing legal and financial autonomy and compliance with commercial law, as stated under ITT Sub-clause 5.3 in case of government owned entity; and (p) In addition to the requirements stated under ITT Sub Clause 18.1, Tenders submitted by a JVCA or proposing a Subcontractor shall include. <ul style="list-style-type: none"> i. a Joint Venture Agreement entered into by all partners, executed on a non-judicial stamp of value or equivalent as stated under ITT Sub Clause 18.1; or
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	<ul style="list-style-type: none"> ii. a Letter of Intent along with the proposed agreement duly signed by all partners of the intended JVCA with the declaration that it will execute the Joint Venture agreement in the event the Tenderer is successful; iii. the JVCA Partner Information (Form PG5A-2b); iv. the Subcontractor Information (Form PG5A-2c). <p>(q) the completed Specifications Submission and Compliance Sheet (Form PG5A-4a) as stated under ITT clause 28.1;</p> <p>(r) Any other document as specified in the TDS.</p> <p>24.3 The Financial Offer (Financial Envelope -02) prepared by the Tenderers shall comprise the following:</p> <ul style="list-style-type: none"> (a) The Financial offer Submission Letter (Form PG5A-1b) as furnished in Section 5: (b) The Tenderer shall submit the completed Price Schedule for Plant and Services (Form PG5A-3), according to their origin as appropriate as furnished in section 5: Tender and Contract Forms. (c) the written confirmation authorizing the signatory of the Tender to commit the Tenderer, as stated under ITT Sub Clause 37.3; (d) any other document as specified in the TDS.
25. Alternatives	<p>25.1 Unless otherwise stated in the TDS, alternatives shall not be considered.</p>
26. Tender Prices, Discounts & Price adjustment	<p>26.1 Unless otherwise specified in the TDS, tenderers shall quote for the entire Plant and Installation Services on a "single responsibility" basis such that the total tender price covers all the Contractor's obligations mentioned in or to be reasonably inferred from the tender document in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation and completion of the plant. This includes all requirements under the Contractor's responsibilities for testing, pre-commissioning and commissioning of the plant and, where so required by the tender document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Tender Document, all in accordance with the requirements of the General Conditions of Contract. Items against which no price is entered by the Tenderer will not be paid for by the Purchaser when executed and shall be deemed to be covered by the prices for other items.</p> <p>26.2 Tenderers are required to quote the price for the commercial, contractual and technical obligations outlined in the tender document</p>

	<p>26.3 Tenderers shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section 5, Tender and Contract Forms.</p> <p>26.4 Depending on the scope of the Contract, the Price Schedules may comprise up to the six (6) schedules listed below. Separate numbered Schedules included in Section IV, Tender Forms, from those numbered 1-4 below, shall be used for each of the elements of the Plant and Installation Services. The total amount from each Schedule corresponding to an element of the Plant and Installation Services shall be summarized in the schedule titled Grand Summary, (Schedule 5), giving the total tenderprice(s) to be entered in the Letter of Tender.</p> <p>Schedule No. 1 Plant (including Mandatory Spare Parts) Supplied from Abroad</p> <p>Schedule No. 2 Plant (including Mandatory Spare Parts) Supplied from within the Purchaser's Country</p> <p>Schedule No. 3 Design Services</p> <p>Schedule No. 4 Civil works part</p> <p>Schedule No. 5 Installation Services</p> <p>Schedule No. 6 Grand Summary (Schedule Nos. 1 to 4)</p> <p>Schedule No. 7 Recommended Spare Parts</p> <p>Tenderers shall note that the plant and equipment included in Schedule Nos. 1 and 2 above exclude materials used for civil, building and other construction works. All such materials shall be included and priced under Schedule No. 4, Installation Services.</p> <p>26.5 In the Schedules, tenderers shall give the required details and a breakdown of their prices as follows:</p> <ul style="list-style-type: none"> a) Plant to be supplied from abroad (Schedule No. 1): The price of the plant shall be quoted on CIP-named place of destination/CIF basis as specified in the TDS and as applicable. (b) Plant manufactured within the Purchaser's country (Schedule No. 2): <ul style="list-style-type: none"> i) The price of the plant shall be quoted on an EXW INCOTERM basis (such as "ex-works," "ex-factory," "ex-warehouse" or "off-the-shelf," as applicable), (ii) Sales tax and all other taxes payable in the Employer's country on the plant if the contract is awarded to the Tenderer, and (iii) The total price for the item. (c) Design Services (Schedule No. 3). (d) Installation Services shall be quoted separately (Schedule No. 4) and shall include rates or prices for local transportation to named place of final destination as specified in the TDS, insurance and other services incidental to delivery of the
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	<p>plant, all labor, contractor's equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc., where identified in the Tender Document, as necessary for the proper execution of the installation and other services, including all taxes, duties, levies and charges payable in the Employer's country as of twenty-eight (28) days prior to the deadline for submission of tenders.</p> <p>(e) Recommended spare parts shall be quoted separately (Schedule 6) as specified in either subparagraph (a) or (b) above in accordance with the origin of the spare parts</p> <p>26.6 The current edition of INCOTERMS, published by the International Chamber of Commerce shall govern.</p> <p>26.7 The prices shall be either fixed or adjustable as specified in the TDS.</p> <p>26.8 In the case of Fixed Price, prices quoted by the Tenderer shall be fixed during the Tenderer's performance of the contract and not subject to variation on any account. A tender submitted with an adjustable price quotation will be treated as non-responsive and rejected.</p> <p>26.9 In the case of Adjustable Price, prices quoted by the Tenderer shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport and contractor's equipment in accordance with the procedures specified in the corresponding Appendix to the Contract Agreement. A tender submitted with a fixed price quotation will not be rejected, but the price adjustment will be treated as zero. Tenderers are required to indicate the source of labor and material indices in the corresponding Form in Section 5, Tender and Contract Forms</p> <p>26.10 If so indicated in ITT 1.2, tenders are to be invited for individual lots or for any combination of lots (packages). Tenderers wishing to offer any price reduction (discount) for the award of more than one lot shall specify in their Tender Submission Letter the price reductions applicable to each package, or alternatively, to individual Contracts within the package, and the manner in which the price reductions will apply.</p> <p>26.11 Tenderers wishing to offer any unconditional discount shall specify in their Letter of Tender the offered discounts and the manner in which price discounts will apply.</p> <p>26.12 If so indicated under ITT Sub Clause 26.9, Tenders are being invited with a provision for price adjustments. The unit rates or prices quoted by the Tenderer are subject to adjustment during the performance of the Contract in</p>
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	<p>accordance with the provisions of the relevant GCC Clause and, in such case the Employer shall provide the indexes and weightings or coefficients in Appendix to the Tender for the price adjustment formulae specified in the PCC.</p> <p>26.13 The Employer may require the Tenderer to justify its proposed indexes, if any of those as stated under ITT Sub Clause 26.12, are instructed to be quoted by the Tenderer in Appendix to the Tender.</p> <p>26.14 The price adjustment stated under ITT Sub Clause 26.9 and 26.12 shall be dealt with in accordance with the provisions in Section 12 and 22 of the Public Procurement Act, 2006 and Rule 5 and 38 of the Public Procurement Rules, 2008.</p>
27. Tender Currency	<p>27.1 For expenditures that will be incurred in Bangladesh, the Tenderer shall quote the prices in Bangladesh Taka</p> <p>27.2 Suppliers offering Goods manufactured or assembled in Bangladesh are permitted to submit their Tender in a combination of local and foreign currencies.</p> <p>27.3 In case of National Tender, all quoted price shall be in local currency.</p> <p>27.4 In case of international competitive tender, for expenditures that will be incurred outside Bangladesh, the Tenderer may quote the prices as specified in TDS.</p>
28. Documents Establishing the Conformity of Plant, and Services	<p>28.1 To establish the conformity of the plant and services to the Tender Documents, the Tenderer shall furnish as part of its Tender the documentary evidence that the Goods and Related services conform to the technical specifications and standards in Section 6, Employer's Requirement.</p> <ol style="list-style-type: none"> a detailed description of the essential technical and performance characteristics of the plant and services, including the functional guarantees of the proposed plant and services, in response to the Specification a list giving full particulars, including available sources, of all spare parts and special tools necessary for the proper and continuing functioning of the plant for the period named in the TDS, following completion of plant and services in accordance with provisions of contract; and a commentary on the Employer's Specification and adequate evidence demonstrating the substantial responsiveness of the plant and services to those specifications. Tenderers shall note that standards for workmanship, materials and equipment designated by the Employer in the Tender Document are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Tenderer may substitute alternative standards, brand names and/or catalog numbers in its tender,

	provided that it demonstrates to the Employer's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specification.
29. Documents Establishing Eligibility of the Tenderer	<p>29.1 Tenderers, if applying as a sole Tenderer, shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, it shall:</p> <ul style="list-style-type: none"> (a) complete the eligibility declarations in the Tender Submission Letter (Form PG5A-1a); (b) complete the Tenderer Information (Form PG5A-2a); (c) complete Subcontractor Information (Form PG5A-2c), if it intends to engage any Subcontractor(s).
	<p>29.2 Tenderers, if applying as a partner of an existing or intended JV shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, in addition to as stated under ITT Sub Clause 29.1, it shall:</p> <ul style="list-style-type: none"> (a) provide for each JV partner, completed JV Partner Information (Form PG5A-2b); (b) provide the JV agreement or Letter of Intent along with the proposed agreement of the intended JV as stated under ITT Sub Clause 18.1
30. Validity Period of Tender	<p>30.1 Tender validities shall be determined on the basis of the complexity of the Tender and the time needed for its examination, evaluation, approval of the Tender and issuance of the Notification of Award (NOA).</p>
	<p>30.2 Tenders shall remain valid for the period specified in the TDS after the date of Tender submission deadline prescribed by the Purchaser, as stated under ITT Clause 39. A Tender valid for a period shorter than that specified will be rejected by the Purchaser as non- responsive.</p>
31. Extension of Tender Validity and Tender Security	<p>31.1 In justified exceptional circumstances, prior to the expiration of the Tender validity period, the Purchaser following Rule 21 of the Public Procurement Rules, 2008 may solicit, not later than ten (10) days before the expiry date of the Tender validity, compulsorily all the Tenderers' consent to an extension of the period of validity of their Tenders.</p>
	<p>31.2 The request for extension of Tender validity period shall state the new date of the validity of the Tender.</p>
	<p>31.3 The request from the Purchaser and the responses from the Tenderers will be made in writing.</p>
	<p>31.4 Tenderers consenting in writing to the request made by the Purchaser under ITT Sub-Clause 30.1 shall also correspondingly extend the validity of its Tender Security for twenty-eight (28) days beyond the new date for the</p>

	expiry of Tender validity.
	31.5 Tenderers consenting in writing to the request under ITT Sub-Clause 31.1 shall not be required or permitted to modify its Tender in any circumstances.
	31.6 If the Tenderers are not consenting in writing to the request made by the Purchaser under ITT Sub-Clause 31.1, its Tender will not be considered for subsequent evaluation.
32. Tender Security	<p>32.1 The Tender Security and its amount shall be determined sufficient to discourage the submission of frivolous and irresponsible tenders pursuant to Rule 22 of the Public Procurement Rule 2008 and shall be expressed as a rounded fixed amount and, shall not be stated as a precise percentage of the estimated total Contract value.</p> <p>32.2 The Tenderer shall furnish as part of its Technical offer (envelope-1) Tender, in favour of the Purchaser or as otherwise directed on account of the Tenderer, a tender security in original form (not copy) and in the amount as specified in TDS.</p> <p>32.3 If the Tender is a Joint Venture, the Tenderer shall furnish as part of its Tender, in favour of the Procuring Entity or as otherwise directed on account of the title of the existing or intended JVCA or any of the partners of that JVCA or in the names of all future partners as named in the Letter of Intent of the JVCA, a Tender Security in original form and in the amount as stated under ITT Sub Clause 32.1.</p>
33. Form of Tender security	<p>33.1 The Tender Security shall:</p> <p>(a) In case of NCT, at the Tenderer's option, be either;</p> <p>(i) In the form of a Bank Draft, Pay order or</p> <p>(ii) in the form of an irrevocable bank guarantee issued by any scheduled Bank of Bangladesh, in the format (Form PG5A-6) furnished in Section 5: Tender and Contract Forms.</p> <p>(b) In case of ICT, in the form of an irrevocable bank guarantee issued by an internationally reputable bank and shall require to be endorsed by its any correspondent bank located in Bangladesh, to make it enforceable, in the format (Form PG5A-6) furnished in Section 5: Tender and Contract Forms;</p> <p>33.2 Tender security shall be payable promptly upon written demand by the Purchaser in the case of the conditions listed in ITT Clause 36 being invoked; and</p> <p>33.3 Tender security shall remain valid for at least twenty eight (28) days beyond the expiry date of the Tender Validity in order to make a claim in due course against a Tenderer in the circumstances detailed under ITT Clause 36.</p>
34. Authenticity of Tender Security	34.1 The authenticity of the Tender security submitted by a Tenderer shall be examined and verified by the Purchaser in writing from the Bank issuing the security, prior to

	<p>finalization of the Evaluation Report pursuant to Rule, 24 of the Public Procurement Rule, 2008.</p> <p>34.2 If a Tender Security is found to be not authentic, the Tender which it covers shall not be considered for subsequent evaluation and in such case the Purchaser shall proceed to take punitive measures against that Tenderer as stated under ITT Sub-Clause 4.6, pursuant to Rule 127 of the Public Procurement Rules, 2008 and in accordance with Section 64(5) of the Public Procurement Act, 2006.</p> <p>34.3 Tender not accompanied by a valid Tender Security as stated under Sub-Clause 29, 30 and 31, shall be considered as non-responsive.</p>
35. Return of Tender Security	<p>35.1 No Tender security shall be returned by the Tender Opening Committee (TOC) during and after the opening of the Tenders pursuant to Rule 26 of the Public Procurement Rules 2008.</p> <p>35.2 No Tender security shall be returned to the Tenderers before contract signing, except to those who are found non-responsive.</p> <p>35.3 Tender securities of the non-responsive Tenders shall be returned immediately after the Evaluation Report has been approved by the Purchaser.</p> <p>35.4 Tender securities of the responsive Tenderers shall be returned only after the lowest evaluated responsive Tenderer has submitted the performance security and signed the contract, that being even before the expiration of the validity period specified in Clause 30.</p> <p>35.5 Tender Securities of the Tenderers not consenting within the specified date in writing to the request made by the Purchaser under ITT Sub-Clause 31.1 in regard to extension of its Tender validity shall be discharged or returned forthwith.</p>
36. Forfeiture of Tender Security.	<p>36.1 The Tender security pursuant to Rule 25 of the Public Procurement Rules, 2008 may be forfeited if a Tenderer:</p> <ul style="list-style-type: none"> (a) withdraws its Tender after opening of Tenders but within the validity of the Tender as stated under ITT Clauses 30, and 31, pursuant to Rule 19 of the Public Procurement Rules 2008; or (b) refuses to accept a Notification of Award as stated under ITT Sub-Clause 65.3, pursuant to Rule 102 of the Public Procurement Rules 2008; or (c) fails to furnish performance security as stated under ITT Sub-Clause 66.2, pursuant to Rule 102 of the Public Procurement Rules 2008; or (d) refuses to sign the Contract as stated under ITT Sub-Clause 70.2 pursuant to Rule 102 of the Public Procurement Rules 2008; or (e) does not accept the correction of the Tender price following the correction of arithmetic errors as stated under ITT Clause 55, pursuant to Rule 98(11) of the Public Procurement Rules 2008.

37. Format and Signing of Tender	<p>37.1 Tenderers shall prepare one (1) original of the documents comprising the Technical Offer as described in ITT Clause 24.2 and clearly mark it “ORIGINAL OF TECHNICAL OFFER” In addition, the Tenderers shall prepare the number of copies of the Technical Offer, as specified in the TDS and clearly mark each of them “COPY OF THE TECHNICAL OFFER.” In the event of any discrepancy between the original and the copies, the ORIGINAL shall prevail.</p> <p>37.2 Tenderers shall prepare one (1) original of the documents comprising the Financial Offer as described in ITT Clause 24.3 and clearly mark it “ORIGINAL OF FINANCIAL OFFER” In addition, the Tenderers shall prepare the number of copies of the Financial Offer, as specified in the TDS and clearly mark each of them “COPY OF THE FINANCIAL OFFER” In the event of any discrepancy between the original and the copies, the ORIGINAL shall prevail.</p> <p>37.3 Alternatives, if permitted under ITT Clause 25, shall be clearly marked “Alternative”.</p> <p>37.4 The original and each copy of the Offer shall be typed or written in indelible ink and shall be signed by the Person duly authorized to sign on behalf of the Tenderer. This Tender specific authorization shall be attached to the Technical Offer Submission Letter (Form PW5A-1a) and Financial Offer Submission Letter (Form PW5A-1b). The name and position held by each Person(s) signing the authorization must be typed or printed below the signature. All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed by the person signing the Tender.</p> <p>37.5 Any interlineations, erasures, or overwriting will be valid only if they are signed or initialled by the Person (s) signing the Tender.</p>
E. Tender Submission	
38. Sealing, Marking and Submission of Tender	<p>38.1 Tenderers shall enclose the original of Technical Offer in one (1) envelope and all the copies of the Technical Offer, including the alternatives, if permitted under ITT Clause 25, in another envelope, duly marking the envelopes as “ORIGINAL OF TECHNICAL OFFER” “ALTERNATIVES” (if permitted), “COPY OF TECHNICAL OFFER,” “ALTERNATIVES” (if permitted) These sealed envelopes for the original and copies of the technical Tender shall then be enclosed and sealed in one single envelope and clearly mark it “Envelope-01: TECHNICAL OFFER”.</p> <p>38.2 The inner and outer envelopes of Technical Offer shall: (a) be addressed to the Procuring Entity at the address as stated under ITT Sub Clause 39.1;</p>

	<p>(b) bear the name of the Tender and the Tender Number as stated under ITT Sub Clause 1.1;</p> <p>(c) bear the name and address of the Tenderer;</p> <p>(d) bear a statement “DO NOT OPEN BEFORE -----” the time and date for Tender opening as stated under ITT Sub Clause 45.2</p> <p>(e) bear any additional identification marks as specified in the TDS.</p>
	<p>38.3 Tenderers shall enclose the original of Financial Offer in one (1) envelope and all the copies of the Financial Offer in another envelope, duly marking the envelopes as “ORIGINAL OF FINANCIAL OFFER” & “COPY OF FINANCIAL OFFER”. These sealed envelopes for the original and copies of the Financial Tender shall then be enclosed and sealed in one single envelope and clearly mark it “ENVELOPE-02: FINANCIAL OFFER”.</p>
	<p>38.4 The inner and outer envelopes of Financial Offer shall:</p> <p>(a) be addressed to the Procuring Entity at the address as stated under ITT Sub Clause 39.1;</p> <p>(b) bear the name of the Tender and the Tender Number as stated under ITT Sub Clause 1.1;</p> <p>(c) bear the name and address of the Tenderer;</p> <p>(d) bear a statement “DO NOT OPEN BEFORE THE TECHNICAL OFFER EVALUATION AND APPROVAL”.</p> <p>(e) bear any additional identification marks as specified in the TDS.</p>
	<p>38.5 The Envelope-01 as stated in ITT Clause 38.1 and Envelope-02 as in ITT Clause 38.3 shall then be enclosed and sealed in one single outer envelope which shall contain the information as stated under ITT Clause 38.2 (a) to (e) & ITT Clause 38.4 (a) to (e)</p>
	<p>38.6 Tenderers are solely and entirely responsible for pre-disclosure of Tender information if the envelope(s) are not properly sealed and marked.</p>
	<p>38.7 Tenders shall be delivered by hand or by mail, including courier services at the address(s) as stated under ITT Sub Clause 39.1.</p>
	<p>38.8 The Procuring Entity will, on request, provide the Tenderer with acknowledgement of receipt showing the date and time when it's Tender was received.</p>
<p>39. Deadline for Submission of tenders</p>	<p>39.1 Tenders shall be delivered to the Purchaser at the address specified in the TDS and no later than the date and time specified in the TDS.</p> <p>39.2 The Purchaser may, at its discretion on justifiably acceptable grounds duly recorded, extend the deadline for</p>

	<p>submission of Tender as stated under ITT Sub Clause 39.1, in which case all rights and obligations of the Purchaser and Tenderers previously subject to the deadline will thereafter be subject to the new deadline as extended.</p> <p>39.3 If submission of Tenders is allowed in more than one location, the date and time, for submission of Tenders for both the primary and the secondary place(s), shall be the “same and not different” as specified in the TDS.</p> <p>39.4 The Procuring Entity shall ensure that the Tenders received at the secondary place(s) are hand-delivered at the primary place as stated under ITT Sub Clause 39.1, within THREE (3) HOURS after the deadline for submission of Tenders at the secondary place (s), in case of MULTIPLE DROPPING as stated under ITT Sub Clause 39.3, as specified in the TDS.</p>
40. Late tender	<p>37.6 Any Tender received by the Purchaser after the deadline for submission of Tenders as stated under ITT Clause 39, shall be declared LATE, rejected, returned unopened to the Tenderer.</p>
41. Modification, Substitution or Withdrawal of Tenders	<p>41.1 Tenderers may modify, substitute or withdraw its Tender after it has been submitted by sending a written notice duly signed by the authorized signatory and properly sealed, and shall include a copy of the authorization; provided that such written notice including the affidavit is received by the Procuring Entity prior to the deadline for submission of Tenders as stated under ITT Clause 39</p>
42. Tender Modification	<p>42.1 Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit corresponding modification either to its original Technical Offer or Financial Offer or both, marked as “MODIFICATION FOR TECHNICAL OFFER(MTO)” or “MODIFICATION FOR FINANCIAL OFFER (MFO)” with two separate envelopes. The envelope/envelopes marked as MTO and/or MFO then be enclosed and sealed in one single outer envelope with a written notice duly as stated under ITT Sub Clause 41.1. The outer envelope shall contain the information as stated under ITT Sub Clause 38.2(a) to (d) and clearly marked as “MODIFICATION (M)”.</p>
43. Tender Substitution	<p>43.1 Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit another Technical Offer or Financial Offer or both, marked as “SUBSTITUTION FOR TECHNICAL OFFER (STO)” or “SUBSTITUTION FOR FINANCIAL OFFER (SFO)” with two separate envelopes. The envelope/envelopes marked as STO and/or SFO then be enclosed and sealed in one single outer envelope with a written notice duly as stated under ITT Sub Clause 41.1. The outer envelope shall contain the information as stated under ITT Sub Clause 38.2(a) to (d) and clearly marked as “SUBSTITUTION (S)”.</p>

44. Withdrawal of Tender	44.1 The Tenderer shall be allowed to withdraw its Tender by a Letter of Withdrawal marked as "WITHDRAWAL" prior to the deadline for submission of Tenders as stated under ITT Clause 39.
F. Tender Opening and Evaluation	
45. Tender Opening	<p>45.1 Only the Technical Offer(Envelope-01) shall be opened immediately after the deadline for submission of Tenders at the primary place as specified in the TDS but not later than ONE HOUR, after expiry of the submission deadline at the same primary place unless otherwise stated under ITT Sub Clause 39.2. But with inTHREE HOURS after the dateline of submission of tender at primary place in case of multiple dropping. Tender opening shall not be delayed on the plea of absences of Tenderers or his or her representatives. Financial offer (Envelope-02) shall not open with Technical offer (Envelope-01) and shall be kept unopened at the Custody of the Head of the Procuring Entity or his Authorised Officer (AO).</p> <p>45.2 Persons not associated with the Tender may not be allowed to attend the public opening of Technical Offers.</p> <p>45.3 Tenderers' representatives shall be duly authorised by the Tenderer. Tenderers or their authorised representatives will be allowed to attend and witness the opening of Technical Offers, and will sign a register evidencing their attendance. Technical Offers Opening shall not be delayed on the plea of absence of Tenderers or his or her representatives.</p> <p>45.4 The authenticity of withdrawal or substitution of, or modifications to original Tender, if any made by a Tenderer in specified manner, shall be examined and verified by the Tender Opening Committee (TOC) based on documents submitted as stated under ITT Sub Clause 41.1. Any envelope related to financial modification, substitute shall be recorded but not open with technical offer.</p> <p>45.5 Verify (M), (S), (W), (A), (O) by following step by steps</p> <p>(a) Step 1: envelopes marked "Withdrawal (W)" shall be opened and "Withdrawal" notice read aloud & recorded in the opening sheet. After verify the withdrawal letter is genuine, corresponding tender shall not be opened, but returned unopened to the Tenderer by Procuring Entity (PE) at a late time. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice shall be as stated in 41.1& 44.1 and in such case the Tender shall be opened and recorded.</p> <p>(b) Step 2: the remaining Tenders will be sorted out and those marked "SUBSTITUTION (S)" or "MODIFICATION (M)" of Tender will be linked with their corresponding Original Tender.</p>

	<p>(c) Step 3: outer envelopes marked “SUBSTITUTION (S)” shall be opened. The inner envelopes containing the “Substitution of Technical Offer (STO)” and/or “Substitution of Financial Offer (SFO)” shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Tenderer unopened by the Procuring Entity at a later time immediately after opening of Technical Offers. Only the Substitution of Technical Offer, if any, shall be opened, read out, and recorded. Substitution of Financial Offer will remain unopened in accordance with ITT Sub Clause 45.1. No envelope shall be substituted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out and recorded at Technical Offer opening.</p> <p>(d) Step 4: outer envelopes marked “MODIFICATION (M)” shall be opened. No Technical Offer and/or Financial Offer shall be modified unless the corresponding modification notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Offers. Only the Technical Offers, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Offers, both Original as well as Modification, will remain unopened in accordance with ITT Sub Clause 45.1</p> <p>(e) Step 5: if so specified in this Tender Document, the envelopes marked “Alternative of Technical Offer (ATO)” shall be opened and read aloud with the corresponding Technical Offer and recorded.</p> <p>45.6 Ensuring that only the correct (MTO), (STO), (ATO), (OTO) envelopes are opened, details of each Technical Offer will be dealt with as follows:</p> <p>(a) the Chairperson of the TOC will read aloud each Technical Offer and record in the Technical Offer Opening Sheet (TOOS):</p> <ul style="list-style-type: none"> (i) the name and address of the Tenderer; (ii) state if it is a withdrawn, modified, substituted or original Technical Offer; (iii) any alternatives; (iv) record the rejection of the Tender which submitted Technical Offer and Financial Offer together in one envelope. (v) the presence or absence of any requisite Tender Security; and (vi) such other details as the Procuring Entity, at its discretion, may consider appropriate. <p>(b) Only Technical Offer and alternatives read aloud at the Technical Offer Opening will be considered in evaluation.</p>
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	<p>(c) all pages of the original version of the Technical Offer, except for un-amended printed literature, will be initialled by members of the TOC. Remember, No financial Offer shall be open with Technical Offer</p> <p>45.7 Upon completion of Technical Offer opening, all members of the TOC and the Tenderers or Tenderer's duly authorised representatives attending the Technical Offer opening shall sign by name, address, designation, the TOS, copies of which shall be issued to the Head of the Procuring Entity or an officer authorised by him or her and also to the members of the TOC and any authorised Consultants and, to the Tenderers immediately.</p> <p>45.8 The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record under ITT Sub Clause 45.7</p> <p>45.9 No Tender i.e., Technical or Financial Offer shall be rejected at the Tender opening stage except the LATE Tenders as stated in the ITT Clause 40.</p>
46. Evaluation of Tenders	<p>46.1 Technical Offers shall be examined and evaluated only on the basis of the criteria specified in the Tender Document.</p> <p>46.2 Tender Evaluation Committee (TEC) shall examine, evaluate and compare Tenders that are responsive to the requirements of Tender Documents in order to identify the successful Tenderer.</p>
47. Evaluation Process	<p>47.1 TEC may consider a Tender Offer as responsive in the Evaluation, only if it is submitted in compliance with the mandatory requirements set out in the Tender Document. The evaluation process should begin immediately after Technical Offer opening following Two steps:</p> <ul style="list-style-type: none"> (a) Preliminary examination (b) Technical examination and responsiveness
48. Preliminary Examination	<p>48.1 Compliance, adequacy and authenticity of the documentary evidences for meeting the qualification criterion specified in the corresponding section of the Tender document shall have to be preliminarily examined and verified.</p> <p>48.2 The TEC shall firstly examine the Tenders to confirm that all documentation requested in ITT Clause 24 has been provided. Examination of the compliance, adequacy and authenticity of the documentary evidence may follow the order below:</p> <ul style="list-style-type: none"> (a) verification of the completeness of the eligibility declaration in the Tender Submission Letter (Form PG5A-1), to determine the eligibility of the tenderer as stated under ITT Sub-Clause 24(h). Any alterations to its format, filling in all blank spaces with the information requested, failing which the tender may lead to rejection of the Tender; (b) verification of that the Tenderer is enrolled in the

	<p>relevant professional or trade organisations as stated under ITT Clause 24(l);</p> <ul style="list-style-type: none"> (c) verification of the eligibility in terms of legal capacity and fulfilment of taxation obligation by the tenderer in accordance as stated under ITT Sub-Clause 24(i) and 24(k); (d) verification of eligibility that the tenderer is not insolvent, in receivership, bankrupt, not in the process of bankruptcy, not temporarily barred as stated under ITT Sub-Clause 24(j); (e) verification of eligibility of Tenderer's country of origin as stated under ITT Sub-Clause 24(b); (f) verification of the written authorization confirming the signatory of the Tenderer to commit the Tender has been attached with Tender Submission Letter (Form PG5A-1) as stated under ITT Sub-Clause 24(g); in order to check the authenticity of Tender and Tenderer itself ; (g) verification of the Tender Security as stated under ITT Sub-Clause 24(d); and <p>48.3 The TEC shall confirm that the above documents and information have been provided in the Tender and the completeness of the documents and compliance of instructions given in corresponding ITT Clauses shall be verified, failing which the tender shall be considered rejection of that tender.</p>
49. Technical Evaluation and Responsiveness	<p>49.1 Only those Tenders surviving preliminary examination need to be examined in this phase.</p> <p>49.2 Secondly, the TEC will examine the adequacy and authenticity of the documentary evidence which may follow the order below:</p> <ul style="list-style-type: none"> (a) verification of the completeness of the country of origin declaration in the Price Schedule for Plant and Services (Form PG5A-3) as furnished in Section 5: Tender and Contract Forms to determine the eligibility of the Goods and Related Services as stated under ITT Sub Clause 24(m). (b) verification and examination of the documentary evidence and completed Technical Proposal (Form PG5A-4) as furnished in Section 5: Tender and Contract Forms to establish the conformity of the Goods and Related Services to the Tender Documents as stated under ITT Sub Clause 24(e) and 24(n). (c) verification and examination of the documentary evidence that the Tenderer's qualifications conform to the Tender Documents and the Tenderer meets each of the qualification criterion specified in Sub-Section C, Qualification Criteria

	<p>as stated under ITT Sub Clause 24(o).</p> <p>(d) verification and examination of the documentary evidence that Tenderer has met all the requirements in regards under Section 6, Employer's Requirements, without any material deviation or reservation.</p> <p>(e) verification and examination of the documentary evidence and completed Specification Submission Sheet (Form PG5A-4a) to determine the conformity of the Goods and related services .</p>
	<p>49.3 TEC may consider a Tender as responsive in the evaluation, only if comply with the mandatory requirements as stated under Clause 49.2.</p>
	<p>49.4 The TEC's determination of a Tender's responsiveness is to be based on the documentary evidence as requested in Clause 49.2 without recourse to extrinsic evidence.</p>
	<p>49.5 Information contained in a Tender, that was not requested in the Tender Document shall not be considered in evaluation of the Tender.</p>
	<p>49.6 If a Tender is not responsive to the mandatory requirements set out in the Tender Document it shall be rejected by the TEC and shall not subsequently be made responsive by the Tenderer by correction of the material deviation, reservation.</p>
	<p>49.7 A material deviation or reservation is one-</p> <p>(a) which affects in any substantial way the scope, quality, or performance of the Goods and Related Services and Tenderer's qualifications mentioned in the Tender Document</p> <p>(b) which limits in any substantial way, inconsistent with the Tender Documents, the Purchaser's rights or the Tenderer's obligations under the Contract; or</p> <p>(c) whose rectification would anyway affect unfairly the competitive position of other Tenderers presenting responsive Tenders.</p>
	<p>49.8 During the evaluation of Tender, the following definitions apply:</p> <p>(a) "Deviation" is a departure from the requirements specified in the Tender Document;</p> <p>(d) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document;</p>
	<p>49.9 A TEC may regard a Tender as responsive, even if it contains-minor or insignificant deviations, which do not meaningfully alter or depart from the technical specifications, characteristics and commercial terms and conditions or other requirements set out in the Tender Document; errors or oversights, which if corrected, would</p>

	not alter the key aspects of the Tender.
50. Clarification on Technical Offer	<p>50.1 TEC may ask Tenderers for clarification of their Technical Offers in order to facilitate the examination and evaluation of Technical Offers. The request for clarification by the TEC and the response from the Tenderer shall be in writing, and Technical Offers clarifications which may lead to a change in the substance of the Technical Offers or in any of the key elements of the Technical Offers as stated under ITT Sub Clause 49.2, will neither be sought nor be permitted.</p> <p>50.2 Any request for clarifications by the TEC shall not be directed towards making an apparently non-responsive Tender responsive and reciprocally the response from the concerned Tenderer shall not be articulated towards any addition, alteration or modification to its Technical Offer.</p> <p>50.3 If a Tenderer does not provide clarifications of its Technical Offer by the date and time, its Tender shall not be considered in the evaluation</p>
51. Restrictions on Disclosure of Information	<p>51.1 Following the opening of Technical Offers until issuance of Notification of Award no Tenderer shall, unless requested to provide clarification to its Tender or unless necessary for submission of a complaint, communicate with the concerned Procuring Entity</p> <p>51.2 Tenderers shall not seek to influence in anyway, the examination and evaluation of the Tenders</p> <p>51.3 Any effort by a Tenderer to influence the Procuring Entity in its decision concerning the evaluation of Tenders, Contract awards may result in the non-responsiveness of its Tender as well as further action in accordance with Section 64 (5) of the Public Procurement Act, 2006.</p> <p>51.4 All clarification requests shall remind Tenderers of the need for confidentiality and that any breach of confidentiality on the part of the Tenderer may result in their Tender being non-responsive.</p>
52. Approval of Technical Offer	52.1 TEC shall prepare the Technical Offer Evaluation Report and shall directly submit the Evaluation Report to the Head of the Procuring Entity (HOPE) or Authorized Officer for approval.
53. Financial Offer Opening	53.1 After receiving approval of the Technical Offer Evaluation Report, Financial Offer (Envelope-2) of only the Responsive Tenderers who have been determined as qualified to the requirements of the Technical Offer, shall be opened publicly, The Date, time and place of Financial Offer Opening shall be communicated to the Responsive Tenderers in writing by issuing a Financial Offer Opening notice not less than SEVEN DAYS before the opening.

	<p>53.2 Ensuring that only the correct MFO, SFO, OFO envelopes of the Responsive Tenderers shall be opened, in the presence of the Responsive Tenderer's representatives who choose to attend, on the date, time and at the place as notified by the Procuring Entity in accordance with ITT Clause 53.1. Details of each Financial Offer will be dealt with as follows:</p> <p>(a) the Chairperson of the Tender Evaluation Committee will read aloud each Financial Offer and record in the Financial Offer Opening Sheet (FOOS):</p> <ul style="list-style-type: none"> (i) the name and address of the Tenderer; (ii) state if it is a modified, substituted or original Financial Offer; (iii) the Tender Price; (iv) the number of initialled corrections; (v) any discounts; and (vi) any other details as the Procuring Entity, at its discretion, may consider appropriate <p>(b) only the discounts and alternatives read aloud and recorded at the Financial Offer Opening will be considered in Financial Offer Evaluation. No Tenders shall be rejected at the opening of the Financial Offer.</p> <p>(c) all pages of the original version of the Financial Offer, except for un-amended printed literature, will be initialled by members of the Tender Evaluation Committee.</p> <p>(d) The Procuring Entity shall, in writing, notify the Non-responsive Tenderers who have not been determined as qualified to the requirements of the Technical Offer and shall return their Financial Offers (Envelope-02) unopened after signing of the contract.</p>
54. Clarification on Financial Offer	<p>54.1 TEC may ask Tenderers for clarification of their Financial Offers, about the breakdowns of unit rates, in order to facilitate the examination and evaluation of Financial Offers. The request for clarification by the TEC and the response from the Tenderer shall be in writing.</p>
	<p>54.2 Changes in the Tender price shall not be sought or permitted, except to confirm the correction of arithmetical errors discovered by the TEC in the evaluation of the Tenders, as stated under ITT Sub Clause 55.1.</p>
	<p>54.3 If a Tenderer does not provide clarifications of its Financial Offer by the date and time, its Tender shall not be considered in the evaluation.</p>
	<p>54.4 Requests for clarifications on Financial Offers shall be duly signed only by the TEC Chairperson.</p>
55. Correction of Arithmetical Errors	<p>55.1 The TEC shall correct any arithmetic errors that are discovered during the examination of Tenders, and shall</p>

	<p>promptly notify the concerned Tenderer(s) of any such correction(s) pursuant to Rule 98(11) of the Public Procurement Rule, 2008.</p> <p>55.2 Provided that the Tender is responsive, TEC shall correct arithmetical errors on the following basis:</p> <p>(a) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the <u>unit price</u> shall prevail and the line item total shall be corrected, unless in the opinion of the TEC there is an obvious <u>misplacement of the decimal point</u> in the unit price, in which case the total price as quoted will govern and the unit price will be corrected;</p> <p>(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the <u>sub-totals</u> shall prevail and the total shall be corrected.</p> <p>55.3 Any Tenderer that does not accept the correction of the Tender amount following correction of arithmetic errors as determined by the application of ITT Sub-Clause 55.2 shall be considered as non-responsive.</p>
56. Conversion to Single Currency	<p>56.1 For evaluation and comparison purpose, TEC shall convert all Tender prices expressed in the amounts in various currencies into an amount in Bangladeshi Taka currency, using the selling exchange rates established by the Bangladesh Bank, on the date of Tender opening.</p>
57. Financial Evaluation	<p>57.1 Thirdly the TEC, pursuant to Rule 98 of the Public Procurement Rules, 2008 shall evaluate each Tender that has been determined, up to this stage of the evaluation, to be responsive to the mandatory requirements in the Tender Document..</p> <p>57.2 To evaluate a Tender in this stage , the Purchaser shall consider the following</p> <p>(a) Verification and examination of the Price Schedule for Plant and Services (Form PG5-3) as furnished by the Tenderer and checking the compliance with the instructions provided under ITT Clause 26;</p> <p>(b) Evaluation will be done for Items or lot by lot as stated under ITT Clause 26 and the Total Tender Price as quoted in accordance with Clause 26;</p> <p>(c) Adjustment for correction of arithmetical errors as stated under ITT Sub-Clause 55.2;</p> <p>(d) Adjustment for price modification offered as stated under ITT Clause 41;</p> <p>(e) Adjustment due to discount as stated under ITT Sub-Clauses 26.11 and 57.3;</p> <p>(f) Adjustment due to the application of economic factors of evaluation as stated under ITT Sub-</p>

	<p>Clause 57.5 if any;</p> <p>(g) Adjustment due to the assessment of the price of unpriced items as stated under ITT Clause 58 if any;</p>
	<p>57.3 If Tenders are invited for a single lot or for a number of lots as stated under ITT Sub-clauses 26.10, TEC shall evaluate only lots that have included at least the percentage of items per lot. The TEC shall evaluate and compare the Tenders taking into account:</p> <p>(a) Lowest evaluated tender for each lot ;</p> <p>(b) The price discount/reduction per lot;</p> <p>(c) Least cost combination for the Purchaser, considering discounts and the methodology for its application as stated under ITT Sub-clauses 26.10 and 26.11 offered by the Tenderer in its Tender.</p> <p>57.4 Only those spare parts and tools which are specified as a item in the List of Goods and Related Services in Section 6, Employer's Requirement or adjustment as stated under ITT Sub-clause 54.5, shall be taken into account in the Tender evaluation. Supplier-recommended spare parts for a specified operating requirement as stated under ITT Sub-clause 28.2(b) shall not be considered in Tender evaluation.</p>
	<p>57.5 The Purchaser's evaluation of a tender may require the consideration of other factors, in addition to the Tender Price quoted as stated under ITT Clause 26. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of tenders. The factors, methodologies and criteria to be used shall be as specified in TDS. The applicable economic factors, for the purposes of evaluation of Tenders shall be:</p> <p>(a) Adjustment for Deviations in the Delivery and Completion Schedule.</p> <p>(b) Cost of major replacement components, mandatory spare parts, and service.</p>
	<p>57.6 Variations, deviations, and alternatives and other factors which are in excess of the requirements of the Tender Document or otherwise result in unsolicited benefits for the Purchaser will not be taken into account in Tender evaluation.</p>
58. Price Comparison	<p>58.1 The TEC shall compare all responsive Tenders to determine the lowest-evaluated Tender, as stated in ITT 57.2.</p>
	<p>58.2 In the extremely unlikely event that there is a tie for the lowest evaluated price, the Tenderer with the superior past performance with the Purchaser shall be selected, whereby factors such as delivery period, quality of Goods delivered, complaints history and performance indicators could be</p>

	taken into consideration.
	58.3 In the event that there is a tie for the lowest price and none of the Tenderers has the record of past performance with the Purchaser, then the Tenderer shall be selected, subject to firm confirmation through the Post-qualification process described in ITT Clause 61, after consideration as to whether the quality of Goods that is considered more advantageous by the end-users.
	58.4 The successful Tenderer as stated under ITT Sub Clauses 58.1, 60.2 and 60.3 shall not be selected through lottery under any circumstances.
59. Post-qualification	59.1 After determining the lowest-evaluated responsive tender as sated under ITT Sub-Clause 58.1, the Purchaser's TEC pursuant to Rule 100 of the Public Procurement Rules, 2008, shall carry out the Post-Qualification of the Tenderer, using only the requirements specified in Sub-Section C, Qualification Criteria.
	59.2 The TEC shall contact the references given by Tenderers about their previous Supply experiences to verify, if necessary, statements made by them in their Tender and to obtain the most up-to-date information concerning the Tenderers.
	59.3 The TEC may visit the premises of the Tenderer as a part of the post-qualification process, if practical and appropriate, to verify information contained in its Tender.
	59.4 The TEC shall determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive Tender is qualified to perform the Contract satisfactorily.
	59.5 The objective of any visit under ITT Sub-Clause 59.3 shall be limited to a general and visual inspection of the Tenderer's facilities and its plant and equipment, and there shall be no discussion concerning the Tender or its evaluation with the Tenderer during such visit(s).
	59.6 In the event that the Tenderer with lowest evaluated cost fails the post-qualification, the TEC shall make a similar determination for the Tenderer offering the next lowest evaluated cost and so on from the remaining responsive Tenders, provided that, <ul style="list-style-type: none"> (a) such action shall only be taken if the evaluated costs of the Tenders under consideration are acceptable to the Purchaser; (b) when the point is reached whereby the evaluated costs of the remaining responsive Tenders are significantly higher than that of the official estimate, or the market price, the Purchaser may take action pursuant to Rule 33 of the PPR 2008 and may

	<p>proceed for re-Tendering, using a revised Tender Document designed to achieve a more successful result.</p>
60. Negotiation	<p>60.1 No negotiations shall be held during the financial offer evaluation or award, with the lowest or any other Tenderer.</p> <p>60.2 The Procuring Entity through the TEC may, however, negotiate with the lowest evaluated Tenderer with the objective to reduce the Contract Price by reducing the scope of works or a reallocation of risks and responsibilities, only when it is found that the lowest evaluated Tender is significantly higher than the official estimated cost; the reasons for such higher price being duly investigated.</p> <p>60.3 If the Procuring Entity decides to negotiate for reducing the scope of the requirements under ITT Sub Clause 60.2, it will be required to guarantee that the lowest Tenderer remains the lowest Tenderer even after the scope of work has been revised and shall further be ensured that the objective of the Procurement will not be seriously affected through this reduction.</p> <p>60.4 In the event that the Procuring Entity decides because of a high Tender price to reduce the scope of the requirements to meet the available budget, the Tenderer is not obliged to accept the award and shall not be penalised in any way for un-accepting the proposed award.</p>
61. Rejection of All Tenders	<p>61.1 The Purchaser may, in the circumstances as stated under ITT Sub-Clause 61.2 and pursuant to Rule 33 of the Public Procurement Rules 2008, reject all Tenders following recommendations from the Tender Evaluation Committee only after the approval of such recommendations by the Head of the Purchaser. rejected, if –</p> <p>61.2 All Tenders can be rejected, if -</p> <ul style="list-style-type: none"> (a) the price of the lowest evaluated Tender exceeds the official estimate, provided the estimate is realistic; or (b) there is evidence of lack of effective competition; such as non-participation by a number of potential Tenderers; or (c) the Tenderers are unable to propose completion of the delivery within the stipulated time in its offer, though the stipulated time is reasonable and realistic; or (d) all Tenders are non-responsive; or (e) evidence of professional misconduct, affecting seriously the Procurement process, is established pursuant to Rule 127 of the Public Procurement Rules, 2008. <p>61.3 Notwithstanding anything contained in ITT Sub-Clause 61.2 Tenders may not be rejected if the lowest evaluated price is in conformity with the market price.</p>

	<p>61.4 A Purchaser may pursuant to Rule 35 of the Public Procurement Rules, 2008, on justifiable grounds, annul the Procurement proceedings prior to the deadline for the submission of Tenders.</p> <p>61.5 All Tenders received by the Purchaser shall be returned unopened to the Tenderers in the event Procurement proceedings are annulled under ITT Sub-Clause 61.4.</p>
62. Informing Reasons for Rejection	<p>62.1 Notice of the rejection, pursuant to Rule 35 of the Public Procurement Rules, 2008, will be given promptly within <u>seven (7) days</u> of decision taken by the Purchaser to all Tenderers and, the Purchaser will, upon receipt of a written request, communicate to any Tenderer the reason(s) for its rejection but is not required to justify those reason(s).</p>
G. Contract Award	
63. Award Criteria	<p>63.1 The Purchaser shall award the Contract to the Tenderer whose offer is responsive to the Tender Document and that has been determined to be the lowest evaluated Tender, provided further that the Tenderer is determined to be Post-Qualified as stated under ITT Clause 59.</p> <p>63.2 A Tenderer shall not be required, as a condition for award of contract, to undertake obligations not stipulated in the Tender Document, to change its price, or otherwise to modify its Tender.</p>
64. Notification of Award	<p>64.1 Prior to the expiry of the Tender validity period and within <u>seven (7)</u> working days of receipt of the approval of the award by the Approving Authority, the Purchaser pursuant to Rule 102 of the Public procurement Rules, 2008, shall issue the Notification of Award (NOA) to the successful Tenderer.</p> <p>64.2 The Notification of Award, attaching the contract as per the sample (Form PG5A-7) to be signed, shall state:</p> <ul style="list-style-type: none"> (a) the acceptance of the Tender by the Purchaser; (b) the price at which the contract is awarded; (c) the amount of the Performance Security and its format; (d) the date and time within which the Performance Security shall be submitted; and (e) the date and time within which the contract shall be signed. <p>64.3 The Notification of Award shall be accepted in writing by the successful Tenderer within <u>seven (7)</u> working days from the date of issuance of NOA.</p> <p>64.4 Until a formal contract is signed, the Notification of Award shall constitute a Contract, which shall become binding upon the furnishing of a Performance Security and the signing of the Contract by both parties.</p>

	64.5 The Notification of Award establishes a Contract between the Purchaser and the successful Tenderer and the existence of a Contract is confirmed through the signature of the Contract Document that includes all agreements between the Purchaser and the successful Tenderer.
65. Performance Security	65.1 The Performance Security shall be determined sufficient to protect the performance of the Contract pursuant to Rule 27 of the Public Procurement Rules, 2008.
	65.2 Performance Security shall be furnished by the successful Tenderer in the amount specified in the TDS and denominated in the currencies in which the Contract Price is payable pursuant to Rule 102 (8) of the Public Procurement Rules, 2008.
	65.3 The proceeds of the Performance Security shall be payable to the Purchaser unconditionally upon first written demand as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
66. Form and Time Limit for furnishing of Performance security	66.1 The Performance Security shall be in the form of irrevocable Bank Guarantee in the format (Form PG5A-9) as stated under ITT Clause 65, shall be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable pursuant to Rule 27(4) of the Public Procurement Rules, 2008..
	66.2 Within twenty-eight (28) days from issue of the Notification of Award, the successful Tenderer shall furnish the Performance Security for the due performance of the Contract in the amount specified under ITT Sub Clause 65.2.
67. Validity of Performance Security	67.1 The Performance Security shall be required to be valid until a date twenty-eight (28) days beyond the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations.
	67.2 If under any circumstances date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations is to be extended, the Performance Security shall correspondingly be extended for the extended period.
68. Authenticity of performance Security	69.1 The Purchaser shall verify the authenticity of the Performance Security submitted by the successful Tenderer by sending a written request to the branch of the bank issuing irrevocable Bank Guarantee in specified format.
	69.2 If the Performance Security submitted under ITT Sub Clause 65.2 is not found to be authentic, the Purchaser

	shall proceed to take measures against the Tenderer in accordance with Section 64 of the Act and pursuant to Rule 127 of the Public Procurement Rules, 2008.
69. Contract Signing	<p>69.1 At the same time as the Purchaser issues the Notification of Award, the Purchaser shall send the draft Contract Agreement and all documents forming the Contract pursuant to Rule 102 of the Public Procurement Rule, 2008, to the successful Tenderer.</p> <p>69.2 Within twenty-eight (28) days of the issuance of Notification of Award, the successful Tenderer and the Purchaser shall sign the contract provided that the Performance Security submitted by the Tenderer is found to be genuine.</p> <p>69.3 If the successful Tenderer fails to provide the required Performance Security, as stated under ITT Clause 65 or to sign the Contract , as stated under ITT Sub-Clause 69.2, Purchaser shall proceed to award the Contract to the next lowest evaluated Tenderer, and so on, by order of ranking pursuant to Rule 102 of the Public Procurement Rules,2008.</p>
70. Publication of Notification of Award of Contract	<p>70.1 Notification of Awards for Contracts of Taka 10 (ten) million and above shall be notified by the Purchaser to the Central Procurement Technical Unit within 7(seven) days of issuance of the NOA for publication in their website, and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008.</p> <p>70.2 Notification of Award for Contracts below Taka 10(ten) million, shall be published by the Purchaser on its Notice Board and where applicable on the website of the Purchaser and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008..</p>
71. Debriefing of Tenderers	<p>72.1 Debriefing of Tenderers by Purchaser shall outline the relative status and weakness only of his or her Tender requesting to be informed of the grounds for not accepting the Tender submitted by him or her pursuant to Rule 37 of the Public Procurement Rule, 2008, without disclosing information about any other Tenderer.</p> <p>72.2 In the case of debriefing confidentiality of the evaluation process shall be maintained.</p>
72. Right to Complain	<p>72.1 Any Tenderer has the right to complain if it has suffered or likely to suffer loss or damage due to a failure of a duty imposed on the Purchaser to fulfil its obligations in accordance with Section 29 of the Public Procurement Act 2006 and pursuant to Part 12 of Chapter Three of the Public Procurement Rules, 2008.</p>

	<p>72.2 Circumstances in which a formal complaint may be lodged in sequence by a potential Tenderer against a Purchaser pursuant to Rule 56 of the Public Procurement Rules, 2008, and the complaints, if any, be also processed pursuant to Rule 57 of the Public Procurement Rules 2008.</p>
	<p>72.3 The potential Tenderer shall submit his or her complaint in writing within seven (7) calendar days of becoming aware of the circumstances giving rise to the complaint.</p>
	<p>72.4 In the first instance, the potential Tenderer shall submit his or her complaint to the Purchaser who issued the Tender Document.</p>
	<p>72.5 The place and address for the first stage in the submission of complaints to the Administrative Authority is provided in the TDS.</p>
	<p>72.6 The Tenderer may appeal to a Review Panel only if the Tenderer has exhausted all his or her options of complaints to the administrative authority as stated under ITT Sub-Clause 72.2.</p>

Section 2. Tender Data Sheet

ITT Clause	Amendments of, and Supplements to, Clauses in the Instruction to Tenderers
A. General	
ITT 1.1	<p>The Purchaser is: Chittagong Port Authority represented by Director (Security).</p> <p>The Name and identification number of Tender are:</p> <p>Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.</p> <p>Tender Ref: 18.13.0000.132.07.056.24</p> <p>Lot No(s): Single</p>
ITT 1.2	None.
ITT3.1	The source of public funds is Chittagong Port Authority's own fund.
ITT3.3	The name of the Development Partner is – None.
ITT5.1	Tenderers from the following countries are not eligible: Countries with which Bangladesh has no commercial relation.
ITT 5.13	<p>Tenderers shall have the following up to date valid License:</p> <ol style="list-style-type: none"> 1. Copies of Valid Trade License. 2. VAT Registration Certificate. 3. TIN Certificate
ITT6.1	Materials, Equipment and associated services from the following countries are not eligible: Countries with which Bangladesh has no commercial relation.
B. Tender Document	
ITT8.2	<p>The following are the offices of the Purchaser or authorised agents for the purpose of providing the Tender Document:</p> <p>Attention: Director (Security)</p> <p>Address: Chittagong Port Authority, Chittagong-4100, Bangladesh.</p> <p>Telephone: 88-02 333310884</p> <p>Fax No: 88-02 333310884</p> <p>E-mail address: ds@cpa.gov.bd</p>
ITT9.1	<p>For <u>clarification of Tender Document purposes</u> only, the Procuring Entity's address is:</p> <p>Attention: Director (Security)</p> <p>Address: Chittagong Port Authority, Chittagong-4100, Bangladesh.</p> <p>Telephone: 88-02 333310884</p> <p>Fax No: 88-02 333310884</p> <p>E-mail address: ds@cpa.gov.bd</p> <p>and contact the Procuring Entity within the date of pre-tender meeting.</p>

ITT10.1	A Pre- Tender meeting shall be held at : Office of the Director (Security) Address: Chittagong Port Authority, Chittagong-4100, Bangladesh. Telephone: 88-02 333310884 Fax No: 88-02 333310884 e-mail address: ds@cpa.gov.bd Time & Date: 28/01/2025 at 12.00 Hrs														
C. Qualification Criteria															
ITT 13.1	The maximum 01 (one) numbers of arbitration with verdict against the tenderer over a period of last 05 (five) years. (Years counting backward from the date of publication of IFT in the newspaper).														
ITT14.1 (a)	The Tenderer shall have a minimum of 5 (five) years of overall experience in the role of contractor in any Govt/Semi Govt Organization in Bangladesh. Necessary supporting documents (Completion Certificates, Notification of Award and Contract Agreement) must be submitted with the Tender Document (Years counting backward from the date of publication of IFT in the newspaper).														
ITT 14.1(b)	<p>(1) The Tenderer must have specific experience in working with Access Control System, Security Surveillance System and other security gadget related services with maintenance thereof in any Govt/Semi Govt Organization including any ISPS Compliant Seaport(s) in Bangladesh for last 5(five) years each with a value of at least Taka 7(seven) Crore only;</p> <p>Also, the Tenderer must have experience in similar works of Total Taka 15 (Fifteen) crore within last 05 (Five) years.</p> <p>(2) Necessary supporting documents of on-going works (Notification award and contract agreement and any other supporting documents) must be submitted with the tender (Years counting backward from the date of publication of IFT in the newspaper)</p>														
ITT 15.1(a)	The average annual turnover shall be greater than Tk 20 (Twenty) Crore over the last 05(five) years.														
ITT 15.1(b)	The minimum amount of liquid assets i.e working capital or credit line(s) of the Tenderers shall be Tk 15 (Fifteen) Crore only														
ITT 16.1(a)	<p>A Project Manager, Engineer, and other key staff shall have the following qualifications and experience:</p> <table><tr><th>No</th><th>Position</th><th>Total Works Experience (Years)</th><th>Experience in similar works (Years)</th></tr><tr><td>1</td><td>Project Manager</td><td>Minimum 5 years</td><td>Minimum 2 years</td></tr><tr><td>2</td><td>Engineer</td><td>Minimum 5 years</td><td>Minimum 2 years</td></tr></table>			No	Position	Total Works Experience (Years)	Experience in similar works (Years)	1	Project Manager	Minimum 5 years	Minimum 2 years	2	Engineer	Minimum 5 years	Minimum 2 years
No	Position	Total Works Experience (Years)	Experience in similar works (Years)												
1	Project Manager	Minimum 5 years	Minimum 2 years												
2	Engineer	Minimum 5 years	Minimum 2 years												
ITT 17.1	<p>The Tenderer shall own or have proven access to hire or lease of the major equipment, in full working order as follows :</p> <table><tr><th>No</th><th>Equipment Type and Characteristics</th><th>Minimum Number Required</th></tr><tr><td>1.</td><td>Not Applicable.</td><td></td></tr></table>			No	Equipment Type and Characteristics	Minimum Number Required	1.	Not Applicable.							
No	Equipment Type and Characteristics	Minimum Number Required													
1.	Not Applicable.														
ITT 18.1	The value of non-judicial stamp for execution of the Joint Venture Agreement shall be Tk 300 only.														

ITT 18.2	Maximum number of partners in the JV shall be “Not more than two”.			
	The minimum qualification requirements of Leading Partner, other Partner(s) and requirements by summation of a JV shall be as follows:			
	TDS Clauses References	Requirements by summation	Requirements for Leading Partner	Requirements for other Partner(s)
	ITT-14.1(a)	Summation not applicable	Same as stated in TDS	Same as for Leading Partner
	ITT-14.1(b)	100%	At least one Contract	Not Applicable
	ITT-15.1(a)	100%	50%	50%
	ITT-15.1(b)	100%	50%	50%
D. Tender Preparation				
ITT 19.2	The maximum of percentage of Goods allowed to be subcontracted: “None”.			
ITT 19.4	The Nominated Subcontractor(s) named [<i>insert name(s)</i>] shall execute the following specific components of the proposed Works: “None”.			
ITT 20.1	Tenders are being invited for: Single Lot.			
ITT 24.2(r)	<p>The Tenderer shall submit with its technical offer the following additional documents:</p> <ol style="list-style-type: none"> 1. Copies of Valid Trade License. 2. National ID of the authorised person of the tenderer. 3. Bank Solvency Certificate as per ITT 15.1(b). 4. Copy of up-to-date Income tax payment certificate with TIN. 5. VAT Registration Certificate. 6. Tender Document Purchase Voucher (Original). 7. Company Certificate of Incorporation (in case of Limited Company). 8. In case of JV, JV Agreement, duly signed by the JV Partners. 9. Five (5) years Audit Report (reports on the financial standing, such as profit loss statements, audited balance sheet, etc.) of the Tenderer and JV Partner (if applicable). 10. Necessary documents (Completion Certificates and any other documents) in support of experience are to be submitted with the Tender Document. 11. Specification submission & compliance sheet duly filled in. 12. Manufacturer’s authorization (from OEM) document as per section 7 13. Import Registration Certificate (IRC) from Ministry of Commerce, GoB. 14. Tender Security as per ITT 32.2 in favour of CPA. 15. List of spare parts and consumables to be maintained by the contractor during 1 year warranty and 3 years maintenance period. 16. Brochure and detailed technical specifications for all the items in Section 6. <p>In case of failure to submit any of the above documents, the Tender will be non-responsive in the Technical Evaluation.</p>			
24.3(c)	The Tenderer shall submit with its financial offer the following additional documents: None.			
ITT 25.1	Alternatives shall not be permitted.			
ITT 26.1	Tenderers shall quote for the entire goods and Installation Services on a single responsibility basis			
26.5(a)	Place of Destination: CHITTAGONG PORT AUTHORITY, CHATTOGRAM			
26.5(d)	Local transportation to named place of final destination is: CHITTAGONG PORT AUTHORITY, CHATTOGRAM			

ITT 26.7	The prices quoted by the Tenderer shall be fixed for the duration of the Contract.
ITT 27.4	Name of the foreign currency: Not applicable.
ITT 28.1 (b)	<p>Spare parts requirement:</p> <p>The contract shall include supply of necessary access control devices as listed in section 6 – Employers’ requirement as well as maintenance of all those devices for a period of three (3) years after one year warranty period. All necessary spare parts and components whatsoever required for smooth operation of the devices during warranty period and subsequent three years maintenance period shall be supplied and installed by the supplier and cost shall be included within the quoted price of the tender.</p>
ITT 28.1(b)	Manufacturer’s authorization is: required as per section 7.
ITT 30.2	The Tender validity period shall be 180 days.
ITT 32.2	The amount of the Tender Security shall be Tk 70,00,000.00 (Tk Seventy Lakh only) in favour of Chittagong Port Authority.
ITT 37.1	In addition to the original of the Tender, 01 (One) copy shall be submitted.
E. Submission of Tender	
ITT 38.2(e)	<p>The inner and outer envelopes shall bear the following additional identification marks:</p> <p>Tenders are invited in One Stage Two Envelope tendering method (OSTETM).</p> <p>The 1st Envelope will contain the Technical Offer, which includes all Documents, Completed Forms, Tender Security, Technical Catalogues, Brochures etc. regarding the eligibility of Tenderer, Manufacturer and Goods offered against the Tender as stated in the Tender Documents. But Tender Submission Sheet (PG5A-1a) without price will be submitted with the Tender. Technical Offer will not contain price of the offered Goods and Related Services in any means. This Envelope will be Marked as “TECHNICAL OFFER” and “DO NOT OPEN BEFORE 17/02/2025 at 12.00 Hrs”.</p>
ITT 38.4(e)	<p>The inner and outer envelopes shall bear the following additional identification marks:</p> <p>The 2nd Envelope will contain Price Schedules for all Plant and Related Service in the Forms (PG5A-3). Completed Tender Submission Sheet (PG5A-1b) with price will be submitted with the Tender. This Envelope will be Marked as “FINANCIAL OFFER”.</p> <p>These two Envelopes shall be enclosed in a 3rd Envelope (Outer Envelope). The “TECHNICAL OFFER”, “FINANCIAL OFFER” and Outer Envelopes shall bear the following additional identification marks:</p> <p>Supply and Installation of Access control services and Surveillance System at all Gates and Port Protected Area of CPA with One Year Warranty and 03 (Three) Years Repair and Maintenance After Warranty.</p>
ITT 39.1	For Tender submission purposes ,the Purchaser’s address is:

& ITT 39.3	Attention: Director (Security) Address: Chittagong Port Authority, Chittagong-4100, Bangladesh. Telephone: 88-02 333310884 Fax No: 88-02 333310884 e-mail address: ds@cpa.gov.bd and contact Procuring Entity within the date and time of submission of tender. The deadline for submission of Tenders is: Time & Date: 17/02/2025, 12.00 hrs .
ITT 39.4	The deadline for hand-delivering of the Tenders at the PRIMARY PLACE is: Not applicable. Time & Date: Not applicable.
<h2 style="text-align: center;">F. Opening and Evaluation of Tenders</h2>	
ITT 45.1	The technical offer opening shall take place at (always the primary place): Attention: Director (Security) Address: Chittagong Port Authority, Chittagong-4100, Bangladesh. Telephone: 88-02 333310884 Fax No: 88-02 333310884 e-mail address: ds@cpa.gov.bd Time & Date: 17/02/2025, 12.30 hrs
ITT 57.5	The applicable economic factors, for the purposes of evaluation of Tenders shall be: None.
<h2 style="text-align: center;">G. Award of Contract</h2>	
ITT 65.2	The amount of Performance Security shall be Ten percent (10%) percent of the Contract Price.
ITT 72.5	The name and address of the office where complaints to the Purchaser are to be submitted is: Attention: Chairman, Chittagong Port Authority. Address: Office of the Chairman, Bandar Bhaban (2nd Floor) Chittagong Port Authority, Chittagong – 4100.

Section 3. General Conditions of Contract

A. General

1. Definitions

1.1 In the Conditions of Contract, which include Particular Conditions and these General Conditions, the following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined terms:

- (a) **Approving Authority** means the authority which, in accordance with the Delegation of Financial powers, approves the award of Contract for the Procurement of Goods, Works and Services.
- (b) **Act means** The Public Procurement Act, 2006 (Act 24 of 2006).
- (c) **Commissioning** means operation of the Facilities or any part thereof by the Contractor following Completion, which operation is to be carried out by the Contractor for the purpose of carrying out Guarantee Test(s).
- (d) **Competent Authority** means the authority that gives decision on specific issues as per delegation of administrative and/or financial powers.
- (e) **Completion** means that the Facilities (or a specific part thereof where specific parts are specified in the Contract) have been completed operationally and structurally and put in a tight and clean condition, that all work in respect of Pre Commissioning of the Facilities or such specific part thereof has been completed, and that the Facilities or specific part thereof are ready for Commissioning.
- (f) **Completion Certificate** means the Certificate issued by the Project Manager as evidence that the Contractor has executed the services in all respects as per design, drawing, specifications and Conditions of Contract.
- (g) **Completion Date** is the actual date of completion of the plant and services certified by the Project Manager, in accordance with GCC Clause 24.
- (h) **Contract Agreement** means the Agreement entered into between the Procuring Entity and the Contractor, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein to supply and install Plant & Equipment
- (i) **Contract Documents** means the documents listed in GCC Clause 6, including any amendments thereto.
- (j) **Contractor/supplier** means the Person under contract with the Procuring Entity for the supply and installation of Plant & Equipment under the Rules and the Act as stated in the PCC.
- (k) **Contractor's Representative** means any person nominated

	<p>by the Contractor and approved by the Employer to perform the duties delegated by the Contractor.</p> <p>(l) Contract Price means the price payable to the Contractor as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, for the supply and installation of plant & equipment in accordance with the provisions of the Contract, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.</p> <p>(m) Cost means all expenditures reasonably incurred or to be incurred by the Contractor, whether on or off the Site, including overhead ,profit, taxes, duties, fees, and such other similar levies</p> <p>(n) Day means calendar day unless otherwise specified as working days.</p> <p>(o) Dayworks means work carried out following the instructions of the Procuring Entity or the authorised Project Manager and is paid for on the basis of time spent by the Contractor's workers and equipment at the rates specified in the Schedules, in addition to payments for associated Materials and Plant.</p> <p>(p) Defect is any part of the Works not completed in accordance with the Contract.</p> <p>(q) Defect Liability Period means the period of validity of the warranties given by the Contractor commencing at Completion of the Facilities or a part thereof, during which the Contractor is responsible for defects with respect to the Facilities (or the relevant part thereof) as provided in contract document.</p> <p>(r) Defects Correction Certificate is the certificate issued by the Project Manager upon correction of defects by the Contractor.</p> <p>(s) Drawings include calculations and other information provided in Section 7 or as approved by the Project Manager for the execution and completion of the Contract.</p> <p>(t) Effective Date means the date of fulfillment of all conditions of the Contract Agreement, from which the Time for Completion shall be counted.</p> <p>(u) Equipment means all facilities, equipment, machinery, tools, apparatus, appliances or things of every kind required in or for installation, completion and maintenance of Facilities that are to be provided by the Contractor, but does not include Plant, or other things intended to form or forming part of the Facilities.</p> <p>(v) Facilities means the Plant to be supplied and installed, as well as all the Installation Services to be carried out by the Contractor under the Contract. It also includes any ancillary building or infra structure that needs to be constructed/built/erected to support the plant.</p>
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- (w) **Force Majeure** means an event or situation beyond the control of the Contractor that is not foreseeable, is unavoidable, and its origins not due to negligence or lack of care on the part of the Contractor; such events may include, but not be limited to, acts of the Government in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes or more as included in GCC Clause 52.
- (x) **Goods** mean the Contractor's Plant, Equipment, Materials or any of them as appropriate.
- (y) **GCC** means the General Conditions of Contract.
- (z) **Government** means the Government of the People's Republic of Bangladesh.
- (aa) **Guarantee Test(s)** means the test(s) specified in the Employer's Requirements to be carried out to ascertain whether the Facilities or a specified part thereof is able to attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, in accordance with the provisions of GCC Sub-Clause 25.2 (Guarantee Test) hereof.
- (bb) **Head of the Procuring Entity** means the Secretary of a Ministry or a Division, the Head of a Government Department or Directorate; or the Chief Executive, by whatever designation called, of a local Government agency, an autonomous or semi-autonomous body or a corporation, or a corporate body established under the Companies Act;
- (cc) **Installation Services** means all those services ancillary to the supply of the Plant for the Facilities, to be provided by the Contractor under the Contract, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation works (including the provision and use of Contractor's Equipment and the supply of all construction materials required), installation, testing, pre-commissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training, etc. as the case may require.
- (dd) **Intended Completion Date** is the date calculated from the Commencement Date as specified in the PCC, on which it is intended that the Contractor shall complete the Works and Physical services as specified in the Contract and may be revised only by the Project Manager by issuing an extension of time or an acceleration order.
- (ee) **Materials** means things of all kinds other than Plant intended to form or forming part of the Permanent Works, including the supply-only materials, if any, to be supplied by the Contractor under the Contract.
- (ff) **Month** means calendar month.
- (gg) **Original Contract Price** is the Contract Price stated in the Procuring Entity's Notification of Award (Form PG5A-7) and

	<p>further clearly determined in the PCC.</p> <p>(hh) Operational Acceptance means the acceptance by the Employer of the Facilities (or any part of the Facilities where the Contract provides for acceptance of the Facilities in parts), which certifies the Contractor's fulfillment of the Contract in respect of Functional Guarantees of the Facilities (or the relevant part thereof) in accordance with the provisions of contract</p> <p>(ii) PCC means the Particular Conditions of Contract.</p> <p>(jj) Plant means permanent plant, equipment, machinery, apparatus, materials, articles, ancillary buildings/structure and things of all kinds to be provided and incorporated in the Facilities by the Contractor under the Contract (including the spare parts to be supplied by the Contractor), but does not include Contractor's Equipment.</p> <p>(kk) Pre Commissioning means the testing, checking and other requirements specified in the Employer's Requirements that are to be carried out by the Contractor in preparation for Commissioning.</p> <p>(ll) Procuring Entity/Employer/Purchaser means, as the context so applies, an Entity having administrative and financial powers to undertake procurement of Plant and Physical services using public funds and is as named in the PCC who employs the Contractor to carry out the contractual obligations.</p> <p>(mm) Project Manager is the person named in the PCC or any other competent person appointed by the Procuring Entity and notified to the Contractor who is responsible for supervising the execution and completion of the plant and services and administering the Contract.</p> <p>(nn) Schedules means the document(s) entitled schedules, completed by the Contractor and submitted with the Tender Submission Letter, as included in the Contract. Such document may include the data, lists and schedules of rates and/or prices.</p> <p>(oo) Site means the land and other places upon which the Facilities are to be installed, and such other land or places as may be specified in the PCC as forming part of the Site</p> <p>(pp) Site Investigation Reports are those that were included in the Tender Document and are factual and interpretative reports about the surface and subsurface conditions at the Site.</p> <p>(qq) Specification means the Specification of the goods/works/related services included in the Contract and any modifications or additions to the specifications made or approved by the Project Manager in accordance with the Contract.</p> <p>(rr) Start Date is the date defined in the PCC and it is the last date when the Contractor shall commence execution of the</p>
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	<p>goods/works/services under the Contract.</p> <p>(ss) Subcontractor means a person or corporate body, who has a contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.</p> <p>(tt) Time for Completion means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been prescribed) is to be attained, in accordance with the relevant provisions of the Contract.</p> <p>(uu) Variation means any change to the plant and services directly procured from the original Contractor to cover increases or decreases in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.</p> <p>(vv) Works means all works associated with the construction, reconstruction, site preparation, demolition, repair, maintenance or renovation of railways, roads, highways, or a building, an infrastructure or structure or an installation or any construction work relating to excavation, installation of equipment and materials, decoration, as well as physical services ancillary to works as detailed in the PCC, if the value of those services does not exceed that of the Works themselves.</p> <p>(ww) Writing means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.</p>
2. Interpretation	<p>2.1 In interpreting the GCC, singular also means plural, male also means female or neuter, and the other way around. Headings in the GCC shall not be deemed part thereof or be taken into consideration in the interpretation or construance of the Contract. Words have their normal meaning under the language of the Contract unless specifically defined.</p>
	<p>2.2 Entire Agreement.</p> <p>The Contract constitutes the entire agreement between the Employer and the Contractor and supersedes all communications, negotiations and agreements (whether written or verbal) of parties with respect thereto made prior to the date of Contract Agreement; except those stated under GCC Sub Clause 6.1(j).</p>
	<p>2.3 Non waiver.</p> <p>(a) Subject to GCC Sub Clause 2.3(b), no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.</p>

	<p>(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.</p>
	<p>2.4. Severability</p> <p>If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.</p>
	<p>2.5. Sectional completion</p> <p>If sectional completion is specified in the PCC, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).</p>
3. Communications & Notices	<p>3.1 Communications between Parties such as notice, request or consent required or permitted to be given or made by one party to the other pursuant to the Contract shall be in writing to the addresses specified in the PCC.</p>
	<p>3.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.</p>
	<p>3.3 A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.</p>
4. Governing Law	<p>4.1 The Contract shall be governed by and interpreted in accordance with the laws of the People's Republic of Bangladesh.</p>
5. Governing Language	<p>5.1 The Contract shall be written in English. All correspondences and documents relating to the Contract may be written in English. Supporting documents and printed literature that are part of the Contract may be in another language, provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, such translation shall govern.</p>
	<p>5.2 The Contractor shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.</p>
6. Documents Forming the Contract and Priority of Documents	<p>6.1 The following documents forming the Contract shall be interpreted in the following order of priority:</p> <ul style="list-style-type: none"> (a) the signed Contract Agreement (Form PG5A-8); (b) the Notification of Award (PG5A-7); (c) the completed Tender and the Appendix to the Tender; (d) the Price Schedule for Plant and Services (PG5A-3); (e) the Particular Conditions of Contract;

	<p>(f) the General Conditions of Contract;</p> <p>(g) the Technical Specifications;</p> <p>(h) Personnel Information;</p> <p>(i) Equipment Information;</p> <p>(j) the Drawings; and</p> <p>(k) Any other document listed in the PCC forming part of the Contract.</p>
7. Contract Agreement	<p>7.1 The parties shall enter into a Contract Agreement within twenty eight (28) days from the date of issuance of the Notification of Award (NOA). The costs of stamp duties and similar charges, if any, designated by the applicable law in connection with entry into the Contract Agreement, shall be borne by the Employer.</p>
8. Assignment	<p>8.1 Neither the Contractor nor the Employer shall assign, in whole or in part, its obligations under the Contract; except with the Employer's prior written approval.</p>
9. Eligibility	<p>9.1 The Contractor and its Subcontractor(s) shall have the nationality of a country other than that specified in the PCC.</p>
	<p>9.2 All materials, equipment, plant, and supplies used by the Contractor in both permanent and temporary works and services supplied under the Contract shall have their origin in the countries except any specified in the PCC.</p>
10. Gratuities / Agency fees	<p>10.1 No fees, gratuities, rebates, gifts, commissions or other payments, other than those included in the Contract, shall be given or received in connection with the procurement process or in the Contract execution.</p>
11. Confidential Details	<p>11.1 The Employer and the Contractor shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Contractor may furnish to its Subcontractor such documents, data, and other information it receives from the Employer to the extent required for the Subcontractor to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Contractor under GCC Clause 11.</p>
	<p>11.2 The Employer shall not use such documents, data, and other information received from the Contractor for any purposes unrelated to the Contract. Similarly, the Contractor shall not use such documents, data, and other information received from the Employer for any purpose other than the design, construction, or other work and services required for the performance of the Contract.</p>

	<p>11.3 The obligations of a party under GCC Sub Clauses 11.1 and 11.2 above, however, shall not apply to information that: the Employer or Contractor needs to share with institutions participating in the financing of the Contract; now or hereafter enters the public domain through no fault of that party; can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.</p>
	<p>11.4 The above provisions of GCC Clause 11 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Works or any part thereof.</p>
	<p>11.5 The provisions of GCC Clause 11 shall survive completion or termination, for whatever reason.</p>
12. Joint Venture (JV)	<p>12.1 If the Contractor is a Joint Venture, Consortium, or Association (JVCA),</p> <ul style="list-style-type: none"> (a) each partner of the JV shall be jointly and severally liable for all liabilities and ethical or legal obligations to the Employer for the performance of the Contract; (b) the JV partners shall nominate a representative who shall have the authority to conduct all business including the receipt of payments for and on behalf of all partners of the JV; (c) in the event of a dispute that results in legal action against all partners of the JV, if they are available and if only one partner is available, then that partner alone shall answer on behalf of all partners and, if the complaint lodged is proven, the penalty shall be applicable on that lone partner as whatever penalty all the partners would have received. (d) the JV shall notify the Employer of its composition and legal status which shall not be altered without the prior approval of the Employer. (e) alteration of partners shall only be allowed if any of the partners is found to be incompetent or has any serious difficulties which may impact the overall implementation of the goods/works/service, whereby the incoming partner shall require to possess qualifications equal to or higher than that of the outgoing partner. (f) if any of the partners of JV has been debarred from participating in any procurement activity due to corrupt, fraudulent, collusive or coercive practices, that JV partner shall be altered following provisions under GCC Sub Clause 12.1 (d) and (e), while in case the Leading Partner has been debarred due to the same reasons stated herein the Contract shall be terminated as stated under GCC Sub Clause 67.1(b).
13. Possession of the Site	<p>13.1 The Employer shall give possession of the Site or part(s) of the Site, to the Contractor on the date(s) stated in the PCC. If possession of a part of the Site is not given by the date stated in the PCC, the Employer will be deemed to have delayed the start of the</p>

	relevant activities, and this will be a Compensation Event.
14. Access to the Site	14.1 The Contractor shall allow the Engineer and any person authorised by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
15. Safety, Security and Protection of the Environment	15.1 The Contractor shall throughout the execution and completion of the Works and the remedying of any defects therein:
	<ul style="list-style-type: none"> (a) take all reasonable steps to safeguard the health and safety of all workers working on the Site and other persons entitled to be on it, and to keep the Site in an orderly state; (b) provide and maintain at the Contractor's own cost all lights, guards, fencing, warning signs and watching for the protection of the Works or for the safety on-site; and (c) take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of the Contractor's methods of operation.
16. Working Hours	16.1 The Contractor shall not perform any work on the Site on the weekly holidays, or during the night or outside the normal working hours, or on any religious or public holiday, without the prior written approval of the Project Manager.
17. Welfare of Laborers	17.1 The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's personnel relating to their employment, health, safety, welfare, immigration and shall allow them all their legal rights.
	17.2 The Contractor, in particular, shall provide proper accommodation to his or her labourers and arrange proper water supply, conservancy and sanitation arrangements at the site for all necessary hygienic requirements and for the prevention of epidemics in accordance with relevant regulations, rules and orders of the government.
	17.3 The Contractor, further in particular, shall pay reasonable wages to his or her labourers, and pay them in time. In the event of delay in payment the Employer may effect payments to the labourers and recover the cost from the Contractor.
	17.4 The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take appropriate protective measures to prevent accidents that could result in injury. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
18. Child Labor	18.1 The Contractor shall not employ any child to perform any work that is economically exploitative, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development

	in compliance with the applicable laws and other relevant treaties ratified by the government.
19. Fossils& antiquities	19.1 All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Employer. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.
	19.2 The Contractor shall, upon discovery of any such finding, promptly give notice to the Project Manager, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs cost from complying with the instructions, the Contractor shall give a further notice to the Project Manager and shall be entitled subject to Claims under GCC Clause 71
20. Corrupt, Fraudulent, Collusive or Coercive Practices	20.1 The Government requires that Employer, as well as the Contractor shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of the Contract.
	<p>20.2 The Government requires that Employer, as well as the Contractor shall, during the Procurement proceedings and the execution of the Contract under public funds, ensure-</p> <ul style="list-style-type: none"> (a) strict compliance with the provisions of Section 64 of the Public Procurement Act, 2006 (b) abiding by the code of ethics as mentioned in the Rule127 of the Public Procurement Rules, 2008; (c) that neither it, nor any other member of its staff, or any other agents or intermediaries working on its behalf engages in any such practice as detailed in GCC Sub Clause 20.2. <p>20.3 For the purposes of GCC Sub Clause 20.2, the terms set forth below as follows</p> <ul style="list-style-type: none"> (a) "corrupt practice" means offering, giving or promising to give, receiving, or soliciting either directly or indirectly, to any officer or employee of a Employer or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by a Employer in connection with a Procurement proceeding or Contract execution; (b) "fraudulent practice" means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution; (c) collusive practice" means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Employer, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying a Employer the benefits of competitive price arising from genuine and open competition; or

	<p>(d) “Coercive practice” means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of the Contract, and this will include creating obstructions in the normal submission process used for Tenders.</p> <p>20.4 Should any corrupt, fraudulent, collusive or coercive practice of any kind come to the knowledge of the Employer, it will, in the first place, allow the Contractor to provide an explanation and shall, take actions only when a satisfactory explanation is not received. Such decision and the reasons thereof, shall be recorded in the record of the procurement proceedings and promptly communicated to the Contractor. Any communications between the Contractor and the Employer related to matters of alleged fraud or corruption shall be in writing.</p> <p>20.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Employer against the Contractor alleged to have carried out such practices, the Employer will :</p> <p>(a) exclude the Contractor from further participation in the particular Procurement proceeding; or</p> <p>(b) declare, at its discretion, the Contractor to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time.</p> <p>20.6 20.6 The Contractor shall be aware of the provisions on corruption, fraudulence, collusion and coercion in Section 64 of the Public Procurement Act, 2006 and Rule 127 of the Public Procurement Rules, 2008.</p>
21. License/ Use of Technical Information	<p>21.1 For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and non-transferable license (without the right to sub-license) to the Employer under the patents, utility models or other industrial property rights owned by the Contractor or by a third Party from whom the Contractor has received the right to grant licenses thereunder, and shall also grant to the Employer a non-exclusive and non-transferable right (without the right to sub-license) to use the know-how and other technical information disclosed to the Employer under the Contract. Nothing contained herein shall be construed as transferring ownership of any patent, utility model, trademark, design, copyright, know-how or other intellectual property right from the Contractor or any third Party to the Employer.</p> <p>21.2 The copyright in all drawings, documents and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor by any third Party, including suppliers of materials, the copyright in such materials shall remain vested in such third Party.</p>

B. Subject Matter of Contract

22. Scope of Facilities	<p>22.1 Unless otherwise expressly limited in the Employer's Requirements, the Contractor's obligations cover the provision of all Plant and the performance of all Installation Services required for the design, and the manufacture (including procurement, quality assurance, construction, installation, associated civil works, Pre Commissioning and delivery) of the Plant, and the installation, completion and commissioning of the Facilities in accordance with the plans, procedures, specifications, drawings, codes and any other documents as specified in the Section, Employer's Requirements. Such specifications include, but are not limited to, the provision of supervision and engineering services; the supply of labor, materials, equipment, spare parts and accessories; Contractor's Equipment; construction utilities and supplies; temporary materials, structures and facilities; transportation (including, without limitation, unloading and hauling to, from and at the Site); and storage, except for those supplies, works and services that will be provided or performed by the Employer, as set forth in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer.</p> <p>22.2 The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract.</p> <p>22.3 In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and maintenance of the Facilities for the period specified in the PCC and the provisions, if any, specified in the PCC. However, the identity, specifications and quantities of such spare parts and the terms and conditions relating to the supply thereof are to be agreed between the Employer and the Contractor, and the price of such spare parts shall be that given in Price Schedule No.1 &2 under form PG5A-3, which shall be added to the Contract Price. The price of such spare parts shall include the purchase price therefor and other costs and expenses (including the Contractor's fees) relating to the supply of spare parts.</p>
23. Time for Commencement	<p>23.1 The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time stated in the PCC or within such extended time to which the Contractor shall be entitled under GCC Clause 65.1 hereof.</p>
24. Time for Completion	<p>24.1 The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time stated in the PCC or within such extended time to which the Contractor shall be entitled under GCC Clause 65.1 hereof.</p>

25. Employer's Responsibilities	<p>25.1 All information and/or data to be supplied by the Employer as described in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, shall be deemed to be accurate, except when the Employer expressly states otherwise</p> <p>25.2 The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.</p> <p>25.3 The Employer shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract, and (c) are specified in the Appendix (Scope of Works and Supply by the Employer).</p> <p>25.4 If requested by the Contractor, the Employer shall use its best endeavors to assist the Contractor in obtaining in a timely and expeditious manner all permits, approvals and/or licenses necessary for the execution of the Contract from all local, state or national government authorities or public service undertakings that such authorities or undertakings require the Contractor or Subcontractors or the personnel of the Contractor or Subcontractors, as the case may be, to obtain</p> <p>25.5 Unless otherwise specified in the Contract or agreed upon by the Employer and the Contractor, the Employer shall provide sufficient, properly qualified operating and maintenance personnel; shall supply and make available all raw materials, utilities, lubricants, chemicals, catalysts, other materials and facilities; and shall perform all work and services of whatsoever nature, including those required by the Contractor to properly carry out Pre Commissioning, Commissioning and Guarantee Tests, all in accordance with the provisions of the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, at or before the time specified in the program furnished by the Contractor under the provisions of contract specified or as otherwise agreed upon by the Employer and the Contractor.</p> <p>25.6 The Employer shall be responsible for the continued operation of the Facilities after Completion, in accordance with GCC Sub-Clause 39.8, and shall be responsible for facilitating the Guarantee Test(s) for the Facilities, in accordance with GCC Sub-Clause 40.2.</p> <p>25.7 All costs and expenses involved in the performance of the obligations under this GCC Clause 25 shall be the responsibility of the Employer, save those to be incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with</p>
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	<p>GCC Sub-Clause 40.2.</p> <p>25.8 In the event that the Employer shall be in breach of any of his obligations under this Clause, the additional cost incurred by the Contractor in consequence thereof shall be determined by the Project Manager and added to the Contract Price</p>
26. Contractor's Responsibilities	<p>26.1 The Contractor shall design, manufacture including associated purchases and/or subcontracting, install and complete the Facilities in accordance with the Contract. When completed, the Facilities should be fit for the purposes for which they are intended as defined in the Contract.</p>
	<p>26.2 The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Facilities including any data as to boring tests provided by the Employer, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site if access thereto was available and of other data readily available to it relating to the Facilities as of the date twenty-eight (28) days prior to tender submission. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Facilities.</p>
	<p>26.3 The Contractor shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GCC Sub-Clause 25.3 hereof and that are necessary for the performance of the Contract.</p>
27. Employer's and Contractor's Risks	<p>27.1 The Employer carries the risks that the Contract states are Employer's risks and the Contractor carries the risks that the Contract states are Contractor's risks.</p>
28. Employer's Risks	<p>28.1 From the Start Date until the Defects Correction Certificate has been issued, the following are Employer's risks:</p> <ul style="list-style-type: none"> (a) the risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to <ul style="list-style-type: none"> i. use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or ii. negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or Contracted to him except the Contractor. iii. the risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country

	where the Works are to be executed.
	<p>28.2 From the Completion Date until the Defects Correction Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is Employer's risk, except loss or damage due to:</p> <ul style="list-style-type: none"> (a) a Defect which existed on the Completion Date; (b) an event occurring before the Completion Date, which was not itself Employer's risk; or (c) the activities of the Contractor on the Site after the Completion Date.
29. Contractor's Risks	<p>29.1 From the Start Date until the Defects Correction Certificate has been issued the risks of personal injury, death, and loss of or damage to property including without limitation, the Works, Plant, Materials, and Equipment, which are not Employer's risks are Contractor's risks.</p>
C. Execution of the Facilities	
30. Representatives	<p>31.1 <u>Project Manager</u> If the Project Manager is not named in the Contract, then within fourteen (14) days of the Effective Date, the Employer shall appoint and notify the Contractor in writing of the name of the Project Manager. The Employer may from time to time appoint some other person as the Project Manager in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the Facilities. Such appointment shall only take effect upon receipt of such notice by the Contractor. The Project Manager shall represent and act for the Employer at all times during the performance of the Contract. All notices, instructions, orders, certificates, approvals and all other communications under the Contract shall be given by the Project Manager, except as herein otherwise provided.</p> <p>All notices, instructions, information and other communications given by the Contractor to the Employer under the Contract shall be given to the Project Manager, except as herein otherwise provided.</p> <p>30.2 <u>Contractor's Representative & Construction Manager</u></p> <p>30.2.1 If the Contractor's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Contractor shall appoint the Contractor's Representative and shall request the Employer in writing to approve the person so appointed. If the Employer makes no objection to the appointment within fourteen (14) days, the Contractor's Representative shall be deemed to have been approved. If the Employer objects to the appointment within fourteen (14) days giving the reason therefor, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of this GCC Sub-Clause 30.2.1 shall apply thereto.</p> <p>30.2.2 The Contractor's Representative shall represent and act for</p>

	<p>the Contractor at all times during the performance of the Contract and shall give to the Project Manager all the Contractor's notices, instructions, information and all other communications under the Contract.</p> <p>The Contractor shall not revoke the appointment of the Contractor's Representative without the Employer's prior written consent, which shall not be unreasonably withheld. If the Employer consents thereto, the Contractor shall appoint some other person as the Contractor's Representative, pursuant to the procedure set out in GCC Sub-Clause 30.2.1.</p>
	<p>30.2.3 . The Contractor's Representative may, subject to the approval of the Employer which shall not be unreasonably withheld, at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Contractor's Representative, and shall specify the powers, functions and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Employer and the Project Manager.</p> <p>Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with this GCC Sub-Clause 30.2.3 shall be deemed to be an act or exercise by the Contractor's Representative.</p>
	<p>30.2.4 From the commencement of installation of the Facilities at the Site until Completion, the Contractor's Representative shall appoint a suitable person as the Construction Manager. The Construction Manager shall supervise all work done at the Site by the Contractor and shall be present at the Site throughout normal working hours except when on leave, sick or absent for reasons connected with the proper performance of the Contract. Whenever the Construction Manager is absent from the Site, a suitable person shall be appointed to act as the Construction Manager's deputy.</p>
	<p>30.2.5 The Employer may by notice to the Contractor object to any representative or person employed by the Contractor in the execution of the Contract who, in the reasonable opinion of the Employer, may behave inappropriately, may be incompetent or negligent, or may commit a serious breach of the Site regulations provided under GCC Sub-Clause 37.4. The Employer shall provide evidence of the same, whereupon the Contractor shall remove such person from the Facilities.</p>
	<p>30.2.6 If any representative or person employed by the Contractor is removed in accordance with GCC Sub-Clause 30.2.5, the Contractor shall, where required, promptly appoint a replacement.</p>

31. Work Program	<p>31.1 <u>Contractor's Organization</u> The Contractor shall supply to the Employer and the Project Manager a chart showing the proposed organization to be established by the Contractor for carrying out work on the Facilities within twenty-one (21) days of the Effective Date. The chart shall include the identities of the key personnel and the curricula vitae of such key personnel to be employed shall be supplied together with the chart. The Contractor shall promptly inform the Employer and the Project Manager in writing of any revision or alteration of such an organization chart.</p>
	<p>31.2 <u>Program of Performance</u> Within twenty-eight (28) days after the Effective Date, the Contractor shall submit to the Project Manager a detailed program of performance of the Contract, made in a form acceptable to the Project Manager and showing the sequence in which it proposes to design, manufacture, transport, assemble, install and Pre Commission the Facilities, as well as the date by which the Contractor reasonably requires that the Employer shall have fulfilled its obligations under the Contract so as to enable the Contractor to execute the Contract in accordance with the program and to achieve Completion, Commissioning and Acceptance of the Facilities in accordance with the Contract. The program so submitted by the Contractor shall accord with the Time Schedule included in the Appendix to the Contract Agreement titled Time Schedule, and any other dates and periods specified in the Contract. The Contractor shall update and revise the program as and when appropriate or when required by the Project Manager, but without modification in the Times for Completion specified in the PCC pursuant to Sub-Clause 24.1 and any extension granted in accordance with GCC Clause 65.1, and shall submit all such revisions to the Project Manager.</p>
	<p>31.3 <u>Progress Report</u> The Contractor shall monitor progress of all the activities specified in the program referred to in GCC Sub-Clause 31.2 above, and supply a progress report to the Project Manager every month.</p> <p>The progress report shall be in a form acceptable to the Project Manager and shall indicate: (a) percentage completion achieved compared with the planned percentage completion for each activity; and (b) where any activity is behind the program, giving comments and likely consequences and stating the corrective action being taken.</p>
	<p>31.4 <u>Progress of Performance</u> If at any time the Contractor's actual progress falls behind the program referred to in GCC Sub-Clause 31.2, or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Employer or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the Facilities within the Time for Completion</p>

	<p>under GCC Sub-Clause 24.1, any extension thereof entitled under GCC Sub-Clause 65.1, or any extended period as may otherwise be agreed upon between the Employer and the Contractor.</p> <p>31.5 <u>Procedures</u> The Contract shall be executed in accordance with the Contract Documents including the procedures given in the Forms and Procedures of the Employer's Requirements. The Contractor may execute the Contract in accordance with its own standard project execution plans and procedures to the extent that they do not conflict with the provisions contained in the Contract.</p>
32. Subcontractor	<p>32.1 Subcontracting the whole of the Plant and Service by the Contractor shall not be permissible. The Contractor shall be responsible for the acts or defaults of any Subcontractor, his or her agents or employees, as if they were the acts or defaults of the Contractor.</p>
	<p>32.2 The Contractor shall not be required to obtain consent from the Project Manager or his representative, for suppliers solely of Materials or to a subcontract for which the Specialist Subcontractor(s) is already named in the Contract.</p>
	<p>32.3 The prior consent, in writing, of the Engineer shall however be obtained for other proposed Subcontractor(s).</p>
33. Nominated Subcontractor	<p>33.1 Nominated Subcontractor named in the Contract shall be entitled to execute the specific components of the Works stated in the PCC.</p> <p>33.2 The Contractor shall not be under obligations to employ a Nominated Subcontractor against whom the Contractor raises reasonable objection by notice to the Engineer as soon as practicable, with supporting particulars while there are reasons to believe that the Subcontractor does not have sufficient competence, resources or financial strength, or does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, or does not accept to enter into a subcontract which specifies that, for the subcontracted work including design, if any, the Nominated Subcontractor shall undertake to the Contractor such obligations and liabilities as will enable the contractor to discharge his or her liabilities under the Contract.</p>
34. Other Contractors	<p>34.1 The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, the Engineer and the Employer between the dates given in the Schedule of other Contractors. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of other Contractors, and shall notify the Contractor of any such modification.</p>

35. Design and Engineering	<p>35.1 <u>Specifications and Drawings</u></p> <p>35.1.1 The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract, or where not so specified, in accordance with good engineering practice. The Contractor shall be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents that it has prepared, whether such specifications, drawings and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors or omissions are not because of inaccurate information furnished in writing to the Contractor by or on behalf of the Employer.</p> <p>35.1.2 The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designated by or on behalf of the Employer, by giving a notice of such disclaimer to the Project Manager.</p> <p>35.2 <u>Codes and Standards</u></p> <p>Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date twenty-eight (28) days prior to date of tender submission shall apply unless otherwise specified. During Contract execution, any changes in such codes and standards shall be applied subject to approval by the Employer and shall be treated in accordance with GCC Clause 64.</p> <p>35.3. <u>Approval/Review of Technical Documents by Project Manager</u></p> <p>35.3.1 The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix to the Contract Agreement titled List of Documents for Approval or Review, for its approval or review as specified and in accordance with the requirements of GCC Sub-Clause 31.2 (Program of Performance).</p> <p>Any part of the Facilities covered by or related to the documents to be approved by the Project Manager shall be executed only after the Project Manager's approval thereof.</p> <p>GCC Sub-Clauses 35.3.2 through 35.3.6 shall apply to those documents requiring the Project Manager's approval, but not to those furnished to the Project Manager for its review only</p> <p>35.3.2 Within fourteen (14) days after receipt by the Project Manager of any document requiring the Project Manager's approval in accordance with GCC Sub-Clause 35.3.1, the Project Manager shall either return one copy thereof to the Contractor with its approval endorsed thereon or shall notify the Contractor in writing of its disapproval thereof and the reasons therefor and the modifications that the Project Manager proposes. If the Project Manager fails to take such</p>
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	<p>action within the said fourteen (14) days, then the said document shall be deemed to have been approved by the Project Manager.</p>
	<p>35.3.3. The Project Manager shall not disapprove any document, except on the grounds that the document does not comply with the Contract or that it is contrary to good engineering practice.</p>
	<p>35.3.4 If the Project Manager disapproves the document, the Contractor shall modify the document and resubmit it for the Project Manager's approval in accordance with GCC Sub-Clause 35.3.2. If the Project Manager approves the document subject to modification(s), the Contractor shall make the required modification(s), whereupon the document shall be deemed to have been approved.</p>
	<p>35.3.5 The Project Manager's approval, with or without modification of the document furnished by the Contractor, shall not relieve the Contractor of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager.</p>
	<p>35.3.6 The Contractor shall not depart from any approved document unless the Contractor has first submitted to the Project Manager an amended document and obtained the Project Manager's approval thereof, pursuant to the provisions of this GCC Sub-Clause 35.3. If the Project Manager requests any change in any already approved document and/or in any document based thereon, the provisions of GCC Clause 64 shall apply to such request.</p>
36. Procurement	<p>36.1 <u>Plant</u></p> <p>Subject to GCC Sub-Clause 60.2, the Contractor shall procure and transport all Plant in an expeditious and orderly manner to the Site.</p>
	<p>36.2 <u>Employer-Supplied Plant</u></p> <p>If the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, provides that the Employer shall furnish any specific items to the Contractor, the following provisions shall apply:</p> <p>36.2.1 The Employer shall, at its own risk and expense, transport each item to the place on or near the Site as agreed upon by the Parties and make such item available to the Contractor at the time specified in the program furnished by the Contractor, pursuant to GCC Sub-Clause 31.2, unless otherwise mutually agreed.</p> <p>36.2.2 Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect or default. The Employer shall immediately remedy any shortage, defect or default, or the Contractor shall, if practicable and possible, at the request of the Employer, remedy such shortage, defect or default at the Employer's cost and expense. After inspection, such item shall fall under the care,</p>

	<p>custody and control of the Contractor. The provision of this GCC Sub-Clause 36.2.2 shall apply to any item supplied to remedy any such shortage or default or to substitute for any defective item, or shall apply to defective items that have been repaired.</p> <p>36.2.3 The foregoing responsibilities of the Contractor and its obligations of care, custody and control shall not relieve the Employer of liability for any undetected shortage, defect or default, nor place the Contractor under any liability for any such shortage, defect or default whether under GCC Clause 42 or under any other provision of Contract.</p> <p>36.3 <u>Transportation</u></p> <p>36.3.1 The Contractor shall at its own risk and expense transport all the materials and the Contractor's Equipment to the Site by the mode of transport that the Contractor judges most suitable under all the circumstances.</p> <p>36.3.2 Unless otherwise provided in the Contract, the Contractor shall be entitled to select any safe mode of transport operated by any person to carry the materials and the Contractor's Equipment.</p> <p>36.3.3 Upon dispatch of each shipment of materials and the Contractor's Equipment, the Contractor shall notify the Employer by telex, cable, facsimile or electronic means, of the description of the materials and of the Contractor's Equipment, the point and means of dispatch, and the estimated time and point of arrival in the country where the Site is located, if applicable, and at the Site. The Contractor shall furnish the Employer with relevant shipping documents to be agreed upon between the Parties.</p> <p>36.3.4 The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the materials and the Contractor's Equipment to the Site. The Employer shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any claim for damage to roads, bridges or any other traffic facilities that may be caused by the transport of the materials and the Contractor's Equipment to the Site.</p> <p>36.4 <u>Customs Clearance</u></p> <p>The Contractor shall, at its own expense, handle all imported materials and Contractor's Equipment at the point(s) of import and shall handle any formalities for customs clearance, subject to the Employer's obligations under GCC Sub-Clause 60.2, provided that if applicable laws or regulations require any application or act to be made by or in the name of the Employer, the Employer shall take all necessary steps to comply with such laws or regulations. In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the Time for Completion, pursuant to GCC Clause 65.</p>
37. Installation	<p>37.1 <u>Setting Out/Supervision</u></p> <p>37.1.1 Bench Mark: The Contractor shall be responsible for the true and proper setting-out of the Facilities in relation to bench</p>

marks, reference marks and lines provided to it in writing by or on behalf of the Employer.

If, at any time during the progress of installation of the Facilities, any error shall appear in the position, level or alignment of the Facilities, the Contractor shall forthwith notify the Project Manager of such error and, at its own expense, immediately rectify such error to the reasonable satisfaction of the Project Manager. If such error is based on incorrect data provided in writing by or on behalf of the Employer, the expense of rectifying the same shall be borne by the Employer.

37.1.2 Contractor's Supervision: The Contractor shall give or provide all necessary superintendence during the installation of the Facilities, and the Construction Manager or its deputy shall be constantly on the Site to provide full-time superintendence of the installation. The Contractor shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.

37.2 Labor:

37.2.1 Engagement of Staff and Labor

(a) Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, housing, feeding and transport.

(b) The Contractor shall provide and employ on the Site in the installation of the Facilities such skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged to use local labor that has the necessary skills.

(c) The Contractor shall be responsible for obtaining all necessary permit(s) and/or visa(s) from the appropriate authorities for the entry of all labor and personnel to be employed on the Site into the country where the Site is located. The Employer will, if requested by the Contractor, use his best endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national or government permission required for bringing in the Contractor's personnel.

(d) The Contractor shall at its own expense provide the means of repatriation to all of its and its Subcontractor's personnel employed on the Contract at the Site to the place where they were recruited or to their domicile. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event that the Contractor defaults in providing such means of transportation and temporary maintenance, the Employer may provide the same to such personnel and recover the cost of doing so

from the Contractor.

37.2.2 Persons in the Service of Employer

The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Employer's Personnel.

37.2.3 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification.

The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works

37.3 **Contractor's Equipment**

37.3.1 All Contractor's Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without the Project Manager's consent that such Contractor's Equipment is no longer required for the execution of the Contract.

37.3.2 Unless otherwise specified in the Contract, upon completion of the Facilities, the Contractor shall remove from the Site all Equipment brought by the Contractor onto the Site and any surplus materials remaining thereon.

37.3.3 The Employer will, if requested, use its best endeavors to assist the Contractor in obtaining any local, state or national government permission required by the Contractor for the export of the Contractor's Equipment imported by the Contractor for use in the execution of the Contract that is no longer required for the execution of the Contract.

37.4 **Site Regulations and Safety**

The Employer and the Contractor shall establish Site regulations setting out the rules to be observed in the execution of the Contract at the Site and shall comply therewith. The Contractor shall prepare and submit to the Employer, with a copy to the Project Manager, proposed Site regulations for the Employer's approval, which approval shall not be unreasonably withheld.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Facilities, gate control, sanitation, medical care, and fire prevention. reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer. Otherwise, the cost of such remedial work shall be borne by the Employer.

	<p>37.5 <u>Site Clearance</u></p> <p>37.5.1 Site Clearance in Course of Performance: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor's Equipment no longer required for execution of the Contract</p> <p>37.6 <u>Opportunities for Other Contractors</u></p> <p>37.6.1 The Contractor shall, upon written request from the Employer or the Project Manager, give all reasonable opportunities for carrying out the work to any other contractors employed by the Employer on or near the Site.</p> <p>37.6.2 If the Contractor, upon written request from the Employer or the Project Manager, makes available to other contractors any roads or ways the maintenance for which the Contractor is responsible, permits the use by such other contractors of the Contractor's Equipment, or provides any other service of whatsoever nature for such other contractors, the Employer shall fully compensate the Contractor for any loss or damage caused or occasioned by such other contractors in respect of any such use or service, and shall pay to the Contractor reasonable remuneration for the use of such equipment or the provision of such services.</p> <p>37.7 <u>Emergency Work</u></p> <p>37.7.1 If, by reason of an emergency arising in connection with and during the execution of the Contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the Facilities, the Contractor shall immediately carry out such work.</p> <p>If the Contractor is unable or unwilling to do such work immediately, the Employer may do or cause such work to be done as the Employer may determine is necessary in order to prevent damage to the Facilities. In such event the Employer shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefor. If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract.</p> <p>37.7.2 Clearance of Site after Completion: After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.</p> <p>37.8 <u>Watching and Lighting</u></p> <p>The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.</p>
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38. Test & Inspection	38.1	The Contractor shall at its own expense carry out at the place of manufacture and/or on the Site all such tests and/or inspections of the Plant and any part of the Facilities as are specified in the Contract.
	38.2	The Employer and the Project Manager or their designated representatives shall be entitled to attend the aforesaid test and/or inspection, provided that the Employer shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
	38.3	38.3 Whenever the Contractor is ready to carry out any such test and/or inspection, the Contractor shall give a reasonable advance notice of such test and/or inspection and of the place and time thereof to the Project Manager. The Contractor shall obtain from any relevant third Party or manufacturer any necessary permission or consent to enable the Employer and the Project Manager or their designated representatives to attend the test and/or inspection.
	38.4	The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection. If the Employer or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof.
	38.5	38.5 The Project Manager may require the Contractor to carry out any test and/or inspection not required by the Contract, provided that the Contractor's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impede the progress of work on the Facilities and/or the Contractor's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Completion and the other obligations so affected.
	38.6	If any Plant or any part of the Facilities fails to pass any test and/or inspection, the Contractor shall either rectify or replace such Plant or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under GCC Sub-Clause 38.3.
	38.7	If any dispute or difference of opinion shall arise between the Parties in connection with or arising out of the test and/or inspection of the Plant or part of the Facilities that cannot be settled between the Parties within a reasonable period of time, it may be referred to an 72.2.

	<p>38.8 The Contractor shall afford the Employer and the Project Manager, at the Employer's expense, access at any reasonable time to any place where the Plant are being manufactured or the Facilities are being installed, in order to inspect the progress and the manner of manufacture or installation, provided that the Project Manager shall give the Contractor a reasonable prior notice.</p> <p>38.9 The Contractor agrees that neither the execution of a test and/or inspection of Plant or any part of the Facilities, nor the attendance by the Employer or the Project Manager, nor the issue of any test certificate pursuant to GCC Sub-Clause 38.4, shall release the Contractor from any other responsibilities under the Contract.</p> <p>38.10 39.10 No part of the Facilities or foundations shall be covered up on the Site without the Contractor carrying out any test and/or inspection required under the Contract. The Contractor shall give a reasonable notice to the Project Manager whenever any such parts of the Facilities or foundations are ready or about to be ready for test and/or inspection; such test and/or inspection and notice thereof shall be subject to the requirements of the Contract.</p> <p>38.11 The Contractor shall uncover any part of the Facilities or foundations, or shall make openings in or through the same as the Project Manager may from time to time require at the Site, and shall reinstate and make good such part or parts.</p> <p>38.12 If any parts of the Facilities or foundations have been covered up at the Site after compliance with the requirement of GCC Sub-Clause 38.10 and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating, and making good the same shall be borne by the Employer, and the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been delayed or impeded in the performance of any of its obligations under the Contract.</p>
<p>39. Completion of the Facilities</p>	<p>39.1 As soon as the Facilities or any part thereof has, in the opinion of the Contractor, been completed operationally and structurally and put in a tight and clean condition as specified in the Employer's Requirements, excluding minor items not materially affecting the operation or safety of the Facilities, the Contractor shall so notify the Employer in writing.</p> <p>39.2 Within seven (7) days after receipt of the notice from the Contractor under GCC Sub-Clause 39.1, the Employer shall supply the operating and maintenance personnel specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer for Pre Commissioning of the Facilities or any part thereof.</p> <p>Pursuant to the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, the Employer shall also provide, within the said seven (7) day period, the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Pre Commissioning of the Facilities or any part thereof.</p>

	<p>39.3 As soon as reasonably practicable after the operating and maintenance personnel have been supplied by the Employer and the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters have been provided by the Employer in accordance with GCC Sub-Clause 39.2, the Contractor shall commence Pre-commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GCC Sub-Clause 40.5.</p> <p>39.4 As soon as all works in respect of Pre-commissioning are completed and, in the opinion of the Contractor, the Facilities or</p>
	<p>39.5 The Project Manager shall, within fourteen (14) days after receipt of the Contractor's notice under GCC Sub-Clause 39.4, either issue a Completion Certificate in the form specified in the Employer's Requirements (Forms and Procedures), stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's notice under GCC Sub-Clause 39.4, or notify the Contractor in writing of any defects and/or deficiencies.</p> <p>If the Project Manager notifies the Contractor of any defects and/or deficiencies, the Contractor shall then correct such defects and/or deficiencies, and shall repeat the procedure described in GCC Sub-Clause 39.4.</p>
	<p>39.6 If the Project Manager is satisfied that the Facilities or that part thereof have reached Completion, the Project Manager shall, within seven (7) days after receipt of the Contractor's repeated notice, issue a Completion Certificate stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's repeated notice.</p> <p>39.7 If the Project Manager is not so satisfied, then it shall notify the Contractor in writing of any defects and/or deficiencies within seven (7) days after receipt of the Contractor's repeated notice, and the above procedure shall be repeated.</p>
	<p>39.8 If the Project Manager fails to issue the Completion Certificate and fails to inform the Contractor of any defects and/or deficiencies within fourteen (14) days after receipt of the Contractor's notice under GCC Sub-Clause 39.4 or within seven (7) days after receipt of the Contractor's repeated notice under GCC Sub-Clause 39.5, or if the Employer makes use of the Facilities or part thereof, then the Facilities or that part thereof shall be deemed to have reached Completion as of the date of the Contractor's notice or repeated notice, or as of the Employer's use of the Facilities, as the case may be.</p> <p>39.9 As soon as possible after Completion, the Contractor shall complete all outstanding minor items so that the Facilities are fully in accordance with the requirements of the Contract, failing which the Employer will undertake such completion and deduct the costs thereof from any monies owing to the Contractor.</p> <p>39.10 Upon Completion, the Employer shall be responsible for the care and custody of the Facilities or the relevant part thereof, together with the risk of loss or damage thereto, and shall thereafter take over the Facilities or the relevant part thereof.</p>

40. Commissioning and Operational Acceptance	<p>40.1 <u>Commissioning</u></p> <p>40.1.1 Commissioning of the Facilities or any part thereof shall be commenced by the Contractor immediately after issue of the Completion Certificate by the Project Manager, pursuant to GCC Sub-Clause 39.5, or immediately after the date of the deemed Completion, under GCC Sub-Clause 39.6.</p> <p>40.1.2 The Employer shall supply the operating and maintenance personnel and all raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Commissioning.</p> <p>40.1.3 In accordance with the requirements of the Contract, the Contractor's and Project Manager's advisory personnel shall attend the Commissioning, including the Guarantee Test, and shall advise and assist the Employer.</p> <p>40.2 Guarantee Test</p> <p>40.2.1 Subject to GCC Sub-Clause 40.5, the Guarantee Test and repeats thereof shall be conducted by the Contractor during Commissioning of the Facilities or the relevant part thereof to ascertain whether the Facilities or the relevant part can attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees. The Employer shall promptly provide the Contractor with such information as the Contractor may reasonably require in relation to the conduct and results of the Guarantee Test and any repeats thereof.</p> <p>40.2.2 If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof cannot be successfully completed within the period from the date of Completion specified in the PCC or any other period agreed upon by the Employer and the Contractor, the Contractor shall be deemed to have fulfilled its obligations with respect to the Functional Guarantees, and GCC Sub-Clauses 43.2 and 43.3 shall not apply.</p> <p>40.3 Operational Acceptance</p> <p>40.3.2 At any time after any of the events set out in GCC Sub-Clause 40.3.1 have occurred, the Contractor may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate in the form provided in the Employer's Requirements (Forms and Procedures) in respect of the Facilities or the part thereof specified in such notice as of the date of such notice.</p> <p>40.3.3 The Project Manager shall, after consultation with the Employer, and within seven (7) days after receipt of the Contractor's notice, issue an Operational Acceptance Certificate.</p>
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40.3.4 If within seven (7) days after receipt of the Contractor's notice, the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Contractor in writing of the justifiable reasons why the Project Manager has not issued the Operational Acceptance Certificate, the Facilities or the relevant part thereof shall be deemed to have been accepted as of the date of the Contractor's said notice.

40.4 Partial Acceptance

40.4.1 If the Contract specifies that Completion and Commissioning shall be carried out in respect of parts of the Facilities, the provisions relating to Completion and Commissioning including the Guarantee Test shall apply to each such part of the Facilities individually, and the Operational Acceptance Certificate shall be issued accordingly for each such part of the Facilities.

40.4.2 If a part of the Facilities comprises facilities such as buildings, for which no Commissioning or Guarantee Test is required, then the Project Manager shall issue the Operational Acceptance Certificate for such facility when it attains Completion, provided that the Contractor shall thereafter complete any outstanding minor items that are listed in the Operational Acceptance Certificate

40.5 Delayed Pre-commissioning and/or Guarantee Test

40.5.1 In the event that the Contractor is unable to proceed with the Pre-commissioning of the Facilities pursuant to Sub-Clause 39.3, or with the Guarantee Test pursuant to Sub-Clause 40.2, for reasons attributable to the Employer either on account of non-availability of other facilities under the responsibilities of other contractor(s), or for reasons beyond the Contractor's control, the provisions leading to "deemed" completion of activities such as Completion, pursuant to GCC Sub-Clause 39.6, and Operational Acceptance, pursuant to GCC Sub-Clause 40.3.4, and Contractor's obligations regarding Defect Liability Period, pursuant to GCC Sub-Clause 42.2, Functional Guarantee, pursuant to GCC Clause 43, and Care of Facilities, pursuant to GCC Clause 48, and GCC Clause 66.1, Suspension, shall not apply. In this case, the following provisions shall apply.

40.5.2 When the Contractor is notified by the Project Manager that he will be unable to proceed with the activities and obligations pursuant to clauses 58 & 59, the Contractor shall be entitled to the following:

	<p>(a) the Time of Completion shall be extended for the period of suspension without imposition of liquidated damages pursuant to GCC Sub-Clause 41.2;</p> <p>(b) payments due to the Contractor in accordance with the provision specified in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, which would not have been payable in normal circumstances due to non-completion of the subject activities, shall be released to the Contractor against submission of a security in the form of a bank guarantee of equivalent amount acceptable to the Employer, and which shall become null and void when the Contractor will have complied with its obligations regarding those payments, subject to the provision of Sub-Clause 40.5.3 below;</p> <p>(c) the expenses towards the above security and extension of other securities under the contract, of which validity needs to be extended, shall be reimbursed to the Contractor by the Employer;</p> <p>(d) the additional charges towards the care of the Facilities pursuant to GCC Sub-Clause 48.1 shall be reimbursed to the Contractor by the Employer for the period between the notification mentioned above and the notification mentioned in Sub-Clause 40.5.4 below. The provision of GCC Sub-Clause 49.2 shall apply to the Facilities during the same period.</p> <p>40.5.3 In the event that the period of suspension under above Sub-Clause 40.5.1 actually exceeds one hundred eighty (180) days, the Employer and Contractor shall mutually agree to any additional compensation payable to the Contractor.</p> <p>40.5.4 When the Contractor is notified by the Project Manager that the plant is ready for Pre-commissioning, the Contractor shall proceed without delay in performing Pre-commissioning, in accordance with Clause 39.</p>
D. Guarantees and Liabilities	
41. Completion Time Guarantee	<p>41.1 The Contractor guarantees that it shall attain Completion of the Facilities (or a part for which a separate time for completion is specified) within the Time for Completion specified in the PCC pursuant to GCC Sub-Clause 24.1, or within such extended time to which the Contractor shall be entitled under GCC Clause 65 hereof</p> <p>41.2 If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion or any extension thereof under GCC Clause 65, the Contractor shall pay to the Employer liquidated damages in the amount specified in the PCC as a percentage rate of the Contract Price or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount specified as "Maximum" in the PCC as a percentage rate of the Contract Price. Once the "Maximum" is reached, the Employer may consider termination of the Contract,</p>

	<p>pursuant to GCC Sub-Clause 67.2.2.</p> <p>Such payment shall completely satisfy the Contractor's obligation to attain Completion of the Facilities or the relevant part thereof within the Time for Completion or any extension thereof under GCC Clause 65. The Contractor shall have no further liability whatsoever to the Employer in respect thereof.</p> <p>However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Facilities or from any other obligations and liabilities of the Contractor under the Contract.</p> <p>Save for liquidated damages payable under this GCC Sub-Clause 41.2, the failure by the Contractor to attain any milestone or other act, matter or thing by any date specified in the Appendix to the Contract Agreement titled Time Schedule, and/or other program of work prepared pursuant to GCC Sub-Clause 31.2 shall not render the Contractor liable for any loss or damage thereby suffered by the Employer..</p> <p>41.3 If the Contractor attains Completion of the Facilities or any part thereof before the Time for Completion or any extension thereof under GCC Clause 65, the Employer shall pay to the Contractor a bonus in the amount specified in the PCC. The aggregate amount of such bonus shall in no event exceed the amount specified as "Maximum" in the PCC.</p>
<p>42. Defect Liability</p>	<p>42.1 The Contractor warrants that the Facilities or any part thereof shall be free from defects in the design, engineering, materials and workmanship of the Plant supplied and of the work executed.</p> <p>42.2 The Defect Liability Period shall be five hundred and forty (540) days from the date of Completion of the Facilities (or any part thereof) or one year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, unless specified otherwise in the PCC pursuant to GCC Sub-Clause 42.10.</p> <p>If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Employer regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good as the Contractor shall determine at its discretion, such defect as well as any damage to the Facilities caused by such defect. The Contractor shall not be responsible for the repair, replacement or making good of any defect or of any damage to the Facilities arising out of or resulting from any of the following causes:</p> <ul style="list-style-type: none"> (a) improper operation or maintenance of the Facilities by the Employer; (b) operation of the Facilities outside specifications provided in the Contract; or (c) Normal wear and tear. <p>42.3 The Contractor's obligations under this GCC Clause 42 shall not</p>

	<p>apply to:</p> <ul style="list-style-type: none"> (a) any materials that are supplied by the Employer under GCC Sub-Clause 36.2, are normally consumed in operation, or have a normal life shorter than the Defect Liability Period stated herein; (b) any designs, specifications or other data designed, supplied or specified by or on behalf of the Employer or any matters for which the Contractor has disclaimed responsibility herein; or (c) Any other materials supplied or any other work executed by or on behalf of the Employer, except for the work executed by the Employer under GCC Sub-Clause 42.7.
42.4	<p>The Employer shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect any such defect.</p>
42.5	<p>The Employer shall afford the Contractor all necessary access to the Facilities and the Site to enable the Contractor to perform its obligations under this GCC Clause 42.</p> <p>The Contractor may, with the consent of the Employer, remove from the Site any Plant or any part of the Facilities that are defective if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.</p>
42.6	<p>If the repair, replacement or making good is of such a character that it may affect the efficiency of the Facilities or any part thereof, the Employer may give to the Contractor a notice requiring that tests of the defective part of the Facilities shall be made by the Contractor immediately upon completion of such remedial work, whereupon the Contractor shall carry out such tests.</p> <p>If such part fails the tests, the Contractor shall carry out further repair, replacement or making good, as the case may be, until that part of the Facilities passes such tests. The tests shall be agreed upon by the Employer and the Contractor.</p>
42.7	<p>If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Facilities caused by such defect within a reasonable time (which shall in no event be considered to be less than fifteen (15) days), the Employer may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Employer in connection therewith shall be paid to the Employer by the Contractor or may be deducted by the Employer from any monies due the Contractor or claimed under the Performance Security.</p>
42.8	<p>If the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.</p>

	<p>42.9 Except as provided in GCC Clauses 42 and 49, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design or engineering or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of the gross negligence, fraud, or criminal or willful action of the Contractor.</p>
	<p>42.10 In addition, any such component of the Facilities, and during the period of time as may be specified in the PCC, shall be subject to an extended defect liability period. Such obligation of the Contractor shall be in addition to the defect liability period specified under GCC Sub-Clause 42.2.</p>
43. Functional Guarantees	<p>43.1 The Contractor guarantees that during the Guarantee Test, the Facilities and all parts thereof shall attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, subject to and upon the conditions therein specified.</p> <p>43.2 If, for reasons attributable to the Contractor, the minimum level of the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not met either in whole or in part, the Contractor shall at its cost and expense make such changes, modifications and/or additions to the Plant or any part thereof as may be necessary to meet at least the minimum level of such Guarantees. The Contractor shall notify the Employer upon completion of the necessary changes, modifications and/or additions, and shall request the Employer to repeat the Guarantee Test until the minimum level of the Guarantees has been met. If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Employer may consider termination of the Contract, pursuant to GCC Sub-Clause 64.2.2.</p> <p>43.3 If, for reasons attributable to the Contractor, the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in the said Appendix to the Contract Agreement is met, the Contractor shall, at the Contractor's option, either</p> <ul style="list-style-type: none"> (a) make such changes, modifications and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense, and shall request the Employer to repeat the Guarantee Test or (b) pay liquidated damages to the Employer in respect of the failure to meet the Functional Guarantees in accordance with the provisions in the Appendix to the Contract Agreement titled Functional Guarantees. <p>43.4 The payment of liquidated damages under GCC Sub-Clause 43.3, up to the limitation of liability specified in the Appendix to the Contract Agreement titled Functional Guarantees, shall completely satisfy the Contractor's guarantees under GCC Sub-Clause 43.3, and the Contractor shall have no further liability whatsoever to the Employer in respect thereof. Upon the payment of such liquidated</p>

	<p>damages by the Contractor, the Project Manager shall issue the Operational Acceptance Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.</p>
44. Patent Indemnity	<p>44.1 The Contractor shall, subject to the Employer's compliance with GCC Sub-Clause 44.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country.</p> <p>Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.</p> <p>44.2 If any proceedings are brought or any claim is made against the Employer arising out of the matters referred to in GCC Sub-Clause 29.1, the Employer shall promptly give the Contractor a notice thereof, and the Contractor may at its own expense and in the Employer's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.</p> <p>If the Contractor fails to notify the Employer within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the twenty-eight (28) day period, the Employer shall make no admission that may be prejudicial to the defense of any such proceedings or claim.</p> <p>The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.</p> <p>44.3 The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Contractor may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials</p>

	provided or designed by or on behalf of the Employer.
45. Limitation of Liability	<p>45.1 Except in cases of criminal negligence or willful misconduct,</p> <p>(a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract, and</p> <p>(b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier specified in the PCC, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement..</p>
E. Risk Distribution	
46. Transfer of Ownership	<p>46.1 Ownership of the Plant (including spare parts) to be imported into the country where the Site is located shall be transferred to the Employer upon loading on to the mode of transport to be used to convey the Plant from the country of origin to that country.</p> <p>46.2 Ownership of the Plant (including spare parts) procured in the country where the Site is located shall be transferred to the Employer when the Plant are brought on to the Site.</p> <p>46.3 Ownership of the Contractor's Equipment used by the Contractor and its Subcontractors in connection with the Contract shall remain with the Contractor or its Subcontractors.</p> <p>46.4 Ownership of any Plant in excess of the requirements for the Facilities shall revert to the Contractor upon Completion of the Facilities or at such earlier time when the Employer and the Contractor agree that the Plant in question are no longer required for the Facilities.</p> <p>46.5 Notwithstanding the transfer of ownership of the Plant, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the Contractor pursuant to GCC Clause 32 (Care of Facilities) hereof until Completion of the Facilities or the part thereof in which such Plant are incorporated.</p>
47. Care of Facilities	<p>47.1 The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of Completion of the Facilities pursuant to GCC Clause 39 or, where the Contract provides for Completion of the Facilities in parts, until the date of Completion of the relevant part, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period. The Contractor shall also be responsible for any loss or damage to the Facilities caused by the Contractor or its Subcontractors in the course of any work carried out, pursuant to GCC Clause 42. Notwithstanding the foregoing, the Contractor shall not be liable for any loss or damage to the Facilities or that part thereof caused by reason of any of the matters specified or</p>

	referred to in paragraphs (a), (b) and (c) of GCC Sub-Clauses 48.2.
	47.2 If any loss or damage occurs to the Facilities or any part thereof or to the Contractor's temporary facilities by reason of
	<p>(a) insofar as they relate to the country where the Site is located, nuclear reaction, nuclear radiation, radioactive contamination, pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced contractor could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance, including War Risks and Political Risks, taken out under GCC Clause 34 hereof; or</p> <p>(b) any use or occupation by the Employer or any third Party other than a Subcontractor, authorized by the Employer of any part of the Facilities; or</p> <p>(c) any use of or reliance upon any design, data or specification provided or designated by or on behalf of the Employer, or any such matter for which the Contractor has disclaimed responsibility herein,</p>
	<p>47.3 the Employer shall pay to the Contractor all sums payable in respect of the Facilities executed, notwithstanding that the same be lost, destroyed or damaged, and will pay to the Contractor the replacement value of all temporary facilities and all parts thereof lost, destroyed or damaged. If the Employer requests the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Contractor shall make good the same at the cost of the Employer in accordance with GCC Clause 64. If the Employer does not request the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Employer shall either request a change in accordance with GCC Clause 64, excluding the performance of that part of the Facilities thereby lost, destroyed or damaged, or, where the loss or damage affects a substantial part of the Facilities, the Employer shall terminate the Contract pursuant to GCC Sub-Clause 66.1 hereof.</p> <p>47.4 The Contractor shall be liable for any loss of or damage to any Contractor's Equipment, or any other property of the Contractor used or intended to be used for purposes of the Facilities, except (i) as mentioned in GCC Sub-Clause 42.2 with respect to the Contractor's temporary facilities, and (ii) where such loss or damage arises by reason of any of the matters specified in GCC Sub-Clauses 47.2 (b) and (c).</p>
48. Loss of or Damage to Property; Accident or Injury to Workers; Indemnification	48.1 Subject to GCC Sub-Clause 48.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss of or damage to any property other than the Facilities whether accepted or not, arising in connection with the supply and

	<p>installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.</p>
	<p>48.2 If any proceedings are brought or any claim is made against the Employer that might subject the Contractor to liability under GCC Sub-Clause 48.1, the Employer shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Employer's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.</p>
	<p>48.3 If the Contractor fails to notify the Employer within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the twenty-eight (28) day period, the Employer shall make no admission that may be prejudicial to the defense of any such proceedings or claim.</p> <p>The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.</p>
	<p>48.4 The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over, that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under GCC Clause 49, provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor.</p>
	<p>48.5 The Party entitled to the benefit of an indemnity under this GCC Clause 48 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.</p>
49. Insurance	<p>49.1 To the extent specified in the Appendix to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.</p> <p>(a) Cargo Insurance During Transport</p> <p>Covering loss or damage occurring while in transit from the Contractor's or Subcontractor's works or stores until arrival at the Site, to the Plant (including spare parts therefor) and to the Contractor's Equipment.</p>

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| | <p>(b) <u>Installation All Risks Insurance</u>
Covering physical loss or damage to the Facilities at the Site, occurring prior to Completion of the Facilities, with extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.</p> <p>(c) <u>Third Party Liability Insurance</u>
Covering bodily injury or death suffered by third Parties including the Employer's personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.</p> <p>(d) <u>Automobile Liability Insurance</u>
Covering use of all vehicles used by the Contractor or its Subcontractors, whether or not owned by them, in connection with the execution of the Contract.</p> <p>(e) <u>Workers' Compensation</u>
In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.</p> <p>(f) <u>Employer's Liability</u>
In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.</p> <p>(g) <u>Other Insurances</u>
Such other insurances as may be specifically agreed upon by the Parties hereto as listed in the Appendix to the Contract Agreement titled Insurance Requirements.</p> <p>49.2 The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GCC Sub-Clause 49.1, except for the Third Party Liability, Workers' Compensation and Employer's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GCC Sub-Clause 49.1 except for the Cargo Insurance during Transportation, Workers' Compensation and Employer's Liability Insurances. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.</p> <p>49.3 The Contractor shall, in accordance with the provisions of the Appendix to the Contract Agreement titled Insurance Requirements, deliver to the Employer certificates of insurance or copies of the insurance policies as evidence that the required policies are in full force and effect. The certificates shall provide that no less than twenty-one (21) days' notice shall be given to the Employer by insurers prior to cancellation or material modification of a policy.</p> <p>49.4 The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Contractor.</p> |
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	<p>49.5 The Employer shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix to the Contract Agreement titled Insurance Requirements, in the sums and with the deductibles and other conditions specified in the said Appendix. The Contractor and the Contractor's Subcontractors shall be named as co-insured under all such policies. All insurers' rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies. The Employer shall deliver to the Contractor satisfactory evidence that the required insurances are in full force and effect. The policies shall provide that not less than twenty-one (21) days' notice shall be given to the Contractor by all insurers prior to any cancellation or material modification of the policies. If so requested by the Contractor, the Employer shall provide copies of the policies taken out by the Employer under this GCC Sub-Clause 49.5.</p> <p>49.6 If the Contractor fails to take out and/or maintain in effect the insurances referred to in GCC Sub-Clause 49.1, the Employer may take out and maintain in effect any such insurances and may from time to time deduct from any amount due to the Contractor under the Contract any premium that the Employer shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor. If the Employer fails to take out and/or maintain in effect the insurances referred to in GCC 49.5, the Contractor may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Employer under the Contract any premium that the Contractor shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Employer. If the Contractor fails to or is unable to take out and maintain in effect any such insurances, the Contractor shall nevertheless have no liability or responsibility towards the Employer, and the Contractor shall have full recourse against the Employer for any and all liabilities of the Employer herein.</p> <p>49.7 Unless otherwise provided in the Contract, the Contractor shall prepare and conduct all and any claims made under the policies affected by it pursuant to this GCC Clause 49, and all monies payable by any insurers shall be paid to the Contractor. The Employer shall give to the Contractor all such reasonable assistance as may be required by the Contractor. With respect to insurance claims in which the Employer's interest is involved, the Contractor shall not give any release or make any compromise with the insurer without the prior written consent of the Employer. With respect to insurance claims in which the Contractor's interest is involved, the Employer shall not give any release or make any compromise with the insurer without the prior written consent of the Contractor.</p>
50. Unforeseen Conditions	<p>50.1 If, during the execution of the Contract, the Contractor shall encounter on the Site any physical conditions other than climatic conditions, or artificial obstructions that could not have been reasonably foreseen prior to the date of the Contract Agreement by an experienced contractor on the basis of reasonable</p>

	<p>examination of the data relating to the Facilities including any data as to boring tests, provided by the Employer, and on the basis of information that it could have obtained from a visual inspection of the Site if access thereto was available, or other data readily available to it relating to the Facilities, and if the Contractor determines that it will in consequence of such conditions or obstructions incur additional cost and expense or require additional time to perform its obligations under the Contract that would not have been required if such physical conditions or artificial obstructions had not been encountered, the Contractor shall promptly, and before performing additional work or using additional Plant or Contractor's Equipment, notify the Project Manager in writing beforehand:</p> <ul style="list-style-type: none"> (a) the physical conditions or artificial obstructions on the Site that could not have been reasonably foreseen; (b) the additional work and/or Plant and/or Contractor's Equipment required, including the steps which the Contractor will or proposes to take to overcome such conditions or obstructions; (c) the extent of the anticipated delay; and (d) the additional cost and expense that the Contractor is likely to incur.) <p>On receiving any notice from the Contractor under this GCC Sub-Clause 50.1, the Project Manager shall promptly consult with the Employer and Contractor and decide upon the actions to be taken to overcome the physical conditions or artificial obstructions encountered. Following such consultations, the Project Manager shall instruct the Contractor, with a copy to the Employer, of the actions to be taken.</p> <p>50.2 Any reasonable additional cost and expense incurred by the Contractor in following the instructions from the Project Manager to overcome such physical conditions or artificial obstructions referred to in GCC Sub-Clause 50.1 shall be paid by the Employer to the Contractor as an addition to the Contract Price.</p> <p>50.3 If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in GCC Sub-Clause 50.1, the Time for Completion shall be extended in accordance with GCC Clause 60.</p>
<p>51. Change in Laws and Regulation</p>	<p>51.1 Unless otherwise specified in the Contract, if after the Contract, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Bangladesh (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract.</p>

52. Force Majeure	<p>52.1 In this Clause, “Force Majeure” means an exceptional event or circumstance:</p> <ul style="list-style-type: none"> (a) which is beyond a Party’s control; (b) which such Party could not reasonably have provided against before entering into the Contract; (c) which, having arisen, such Party could not reasonably have avoided or overcome; and (d) which is not substantially attributable to the other Party. <p>52.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:</p> <ul style="list-style-type: none"> (i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies; (ii) rebellion, terrorism, sabotage by persons other than the Contractor’s Personnel, revolution, insurrection, military or usurped power, or civil war; (iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor’s Personnel; (iv) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor’s use of such munitions, explosives, radiation or radio-activity, and (v) natural catastrophes such as cyclone, hurricane, typhoon, tsunami, storm surge, floods, earthquake, landslides, fires, epidemics, quarantine restrictions, or volcanic activity; (vi) freight embargoes; (vii) acts of the Government in its sovereign capacity.
53. Notice of Force Majeure	<p>53.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure</p> <p>53.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.</p> <p>53.3 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.</p>
54. Duty to Minimize Delay	<p>54.1 Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure.</p> <p>54.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.</p>

55. Consequences of Force Majeure	<p>55.1 The Contractor shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure:</p> <p>55.2 The Employer may suspend the delivery or contract implementation, wholly or partly, by written order for a certain period of time, as it deems necessary due to force majeure as defined in the contract.</p> <p>55.3 Delivery made either upon the lifting or the expiration of the suspension order. However, if the Employer terminates the contract as stated under GCC clause 66, resumption of delivery cannot be done.</p> <p>55.4 The Employer determines the existence of a force majeure that will be the basis of the issuance of suspension of order.</p>
F. Payment	
56. Contract Price	<p>56.1 The Contract Price shall be paid as specified in the Contract Agreement Form PG5A- 8.</p> <p>56.2 Unless an adjustment clause is provided for in the PCC, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract.</p> <p>56.3 Subject to GCC Sub-Clauses 25.2, 26.1 and 50 hereof, the Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.</p> <p>56.4 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the PCC. If so provided, the amounts as certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amount. The generic formula indicated below in the form as specified in the PCC applies:</p> <p>$P = A + B (I_m/I_o)$</p> <p>where:</p> <p>P is the adjustment factor</p> <p>A and B are Coefficients specified in the PCC, representing the nonadjustable and adjustable portions, respectively, of the Contract; and</p> <p>I_m is the Index during the month the work has been executed and I_o is the Index prevailing twenty eight (28) days prior to the deadline for submission of Tender.</p> <p>The Indexes to be used is as published by the Bangladesh Bureau of Statistics (BBS) on a monthly basis. In case not available, then other countries or authorities of the sources mentioned in Appendix to the Tender may be used.</p> <p>56.5 If the value of the Index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment</p>

	made in the next or in the final payment certificate. The Index value shall be deemed to take account of all changes in price due to fluctuations.
57. Terms of Payment	<p>57.1 The Contract Price shall be paid as specified in the Contract Agreement and in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, which also outlines the procedures to be followed in making application for and processing payments.</p> <p>57.2 No payment made by the Employer herein shall be deemed to constitute acceptance by the Employer of the Facilities or any part(s) thereof.</p> <p>57.3 In the event that the Employer fails to make any payment by its respective due date or within the period set forth in the Contract, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate(s) shown in the Appendices to the Contract Agreement titled Terms and Procedures of Payment, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.</p> <p>57.4 The currency or currencies in which payments are made to the Contractor under this Contract shall be specified in the Appendices to the Contract Agreement titled Terms and Procedures of Payment, subject to the general principle that payments will be made in the currency or currencies in which the Contract Price has been stated in the Contractor's tender.</p>
58. Advance Payment Security	<p>58.1 The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix to the Contract Agreement titled Terms and Procedures of Payment, and in the same currency or currencies.</p> <p>58.2 The security shall be in the form provided in the tender documents or in another form acceptable to the Employer. The amount of the security shall be reduced in proportion to the value of the Facilities executed by and paid to the Contractor from time to time, and shall automatically become null and void when the full amount of the advance payment has been recovered by the Employer. The security shall be returned to the Contractor immediately after its expiration.</p>
59. Performance Security	<p>59.1 The Contractor shall, within twenty-eight (28) days of the notification of contract award, provide a security for the due performance of the Contract in the amount specified in the PCC.</p> <p>59.2 The performance security shall be denominated in the currency or currencies of the Contract, or in a freely convertible currency acceptable to the Employer, and shall be in the form provided in Section 5, Tender and Contract Forms, corresponding to the type of bank guarantee stipulated by the Employer in the PCC, or in another form acceptable to the Employer.</p> <p>59.3 Unless otherwise specified in the PCC, the security shall be reduced by half on the date of the Operational Acceptance. The Security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate</p>

	<p>Time for Completion is provided, five hundred and forty (540) days after Completion of the Facilities or three hundred and sixty five (365) days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GCC Sub-Clause 42.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration, provided, however, that if the Contractor, pursuant to GCC Sub-Clause 42.10, is liable for an extended defect liability obligation, the performance security shall be extended for the period specified in the PCC pursuant to GCC Sub-Clause 42.10 and up to the amount specified in the PCC.</p> <p>59.4 The Employer shall not make a claim under the Performance Security, except for amounts to which the Employer is entitled under the Contract. The Employer shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Employer was not entitled to make the claim.</p>
60. Taxes and Duties	<p>60.1 The Contractor shall be entirely responsible for all kinds of taxes, duties, fees, levies, and such other charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.</p> <p>60.2 Notwithstanding GCC Sub-Clause 60.1 above, the Employer shall bear and promptly pay</p> <ul style="list-style-type: none"> (a) all customs and import duties for the Plant specified in Price Schedule No. 1; and (b) other domestic taxes such as, sales tax and value added tax (VAT) on the Plant specified in Price Schedules No. 1 and No. 2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located. <p>60.3 If any tax exemptions, reductions, allowances or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavors to enable the Contractor to benefit from any such tax savings to the maximum allowable extent.</p>
61. Payments to Nominated Subcontractor(s)	<p>61.1 The Contractor shall pay to the Nominated Subcontractor(s) the amounts shown on the Nominated Subcontractor's invoices approved by the Contractor in accordance with the subcontract included under the Contract.</p>
62. Price Adjustment	<p>62.1 Where the Contract Period (excluding the Defects Liability Period) exceeds eighteen (18) months, it is normal procedure that prices payable to the Contractor shall be subject to adjustment during the performance of the Contract to reflect changes occurring in the cost of labour and material components. In such cases the tender</p>

	<p>documents shall include in the Appendix 2, a formula of such price adjustment.</p> <p>62.2 Where Contracts are of a shorter duration than eighteen (18) months or in cases where there is to be no Price Adjustment, the following provision shall not be included. Instead, it shall be indicated under this Appendix 2 that the prices are to remain firm and fixed for the duration of the Contract.</p> <p>62.3 If the value of the Index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next or in the final payment certificate. The Index value shall be deemed to take account of all changes in price due to fluctuations.</p>
63. Liquidated Damages	<p>63.1 The Contractor shall be liable to pay Liquidated Damages or in other words the Delay Damages to the Employer at the rate per day as specified in the PCC for each day of delay from the Intended Completion Date, for the uncompleted delivery of goods/works/services or for any part thereof.</p> <p>63.2 The total amount of Liquidated Damages shall not exceed the amount defined in the PCC.</p> <p>63.3 Once the cumulative amount of Liquidated Damages reaches ten (10) percent of the Contract price, the Employer may rescind the Contract, without prejudice to other courses of action and remedies open to it.</p> <p>63.4 The amount of Liquidated Damages may be deducted from any money due or which may become due to the Contractor under the Contract and/or collect such amount of Liquidated Damages from the Retention Money (if any) or other securities posted by the Contractor whichever is convenient to the Employer. In an extreme situation that no such foregoing recourse is available, the contractor be asked to make good the damages from his own finances in writing failing which necessary action as per the provisions of this GCC or PCC be taken.</p> <p>63.5 Payment of Liquidated Damages by the Contractor shall not relieve the Contractor from its obligations.</p> <p>63.6 If the Intended Completion Date is extended after Liquidated Damages have been paid, the Engineer shall correct any overpayment of Liquidated Damages by the Contractor by adjusting the next payment certificate.</p>
G. Change in Contract Elements	
64. Change in the Facilities	<p>64.1 <u>Introducing a Change</u></p> <p>64.1.1 Subject to GCC Sub-Clauses 64.2.5 and 64.2.7, the Employer shall have the right to propose, and subsequently require, that the Project Manager order the Contractor from time to time during the performance of the Contract to make any change, modification, addition or deletion to, in or from the Facilities hereinafter called "Change", provided that such Change falls within the general scope of the Facilities and does not constitute unrelated work and that it is technically practicable, taking into account both the state of advancement of the Facilities and the technical compatibility of the Change envisaged with the nature of</p>

the Facilities as specified in the Contract

64.1.2 The Contractor may from time to time during its performance of the Contract propose to the Employer with a copy to the Project Manager, any Change that the Contractor considers necessary or desirable to improve the quality, efficiency or safety of the Facilities. The Employer may at its discretion approve or reject any Change proposed by the Contractor, provided that the Employer shall approve any Change proposed by the Contractor to ensure the safety of the Facilities.

64.1.3 Notwithstanding GCC Sub-Clauses 64.1.1 and 64.1.2, no change made necessary because of any default of the Contractor in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Completion.

64.1.4 The procedure on how to proceed with and execute Changes is specified in GCC Sub-Clauses 64.2 and 64.3, and further details and forms are provided in the Employer's Requirements (Forms and Procedures).

64.2 Changes Originating from Employer

64.2.1 If the Employer proposes a Change pursuant to GCC Sub-Clause 64.1.1, it shall send to the Contractor a "Request for Change Proposal," requiring the Contractor to prepare and furnish to the Project Manager as soon as reasonably practicable a "Change Proposal," which shall include the following:

- (a) brief description of the Change
- (b) effect on the Time for Completion
- (c) estimated cost of the Change
- (d) effect on Functional Guarantees (if any)
- (e) effect on the Facilities
- (f) effect on any other provisions of the Contract.

64.2.2 Prior to preparing and submitting the "Change Proposal," the Contractor shall submit to the Project Manager an "Estimate for Change Proposal," which shall be an estimate of the cost of preparing and submitting the Change Proposal.

Upon receipt of the Contractor's Estimate for Change Proposal, the Employer shall do one of the following:

- (a) accept the Contractor's estimate with instructions to the Contractor to proceed with the preparation of the Change Proposal
- (b) advise the Contractor of any part of its Estimate for Change Proposal that is unacceptable and request the Contractor to review its estimate
- (c) advise the Contractor that the Employer does not intend to proceed with the Change.

64.2.3 Upon receipt of the Employer's instruction to proceed under

	<p>GCC Sub-Clause 64.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC Sub-Clause 64.2.1.</p>
	<p>64.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If such rates and prices are inequitable, the Parties thereto shall agree on specific rates for the valuation of the Change</p>
	<p>64.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance therewith and with all other Change Orders that have already become binding upon the Contractor under this GCC Clause 64 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen percent (15%), the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Employer accepts the Contractor's objection, the Employer shall withdraw the proposed Change and shall notify the Contractor in writing thereof.</p> <p>The Contractor's failure to so object shall neither affect its right to object to any subsequent requested Changes or Change Orders herein, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Contractor represents.</p>
	<p>64.2.6 Upon receipt of the Change Proposal, the Employer and the Contractor shall mutually agree upon all matters therein contained. Within fourteen (14) days after such agreement, the Employer shall, if it intends to proceed with the Change, issue the Contractor with a Change Order.</p> <p>If the Employer is unable to reach a decision within fourteen (14) days, it shall notify the Contractor with details of when the Contractor can expect a decision.</p> <p>If the Employer decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Contractor accordingly. Under such circumstances, the Contractor shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Contractor in its Estimate for Change Proposal submitted in accordance with GCC Sub-Clause 64.2.2.</p> <p>64.2.7 If the Employer and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Employer may nevertheless instruct the Contractor to proceed with the Change by issue of a "Pending Agreement Change Order."</p>

	<p>Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The Parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal.</p> <p>64.3 Changes Originating from Contractor</p> <p>64.3.1 If the Contractor proposes a Change pursuant to GCC Sub-Clause 64.1.2, the Contractor shall submit to the Project Manager a written "Application for Change Proposal," giving reasons for the proposed Change and including the information specified in GCC Sub-Clause 64.2.1. Upon receipt of the Application for Change Proposal, the Parties shall follow the procedures outlined in GCC Sub-Clauses 64.2.6 and</p> <p>64.3.2. However, should the Employer choose not to proceed, the Contractor shall not be entitled to recover the costs of preparing the Application for Change Proposal.</p>
<p>65. Extension of Time for Completion</p>	<p>65.1 The Time(s) for Completion specified in the PCC pursuant to GCC Sub-Clause 8.2 shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:</p> <ul style="list-style-type: none"> (a) any Change in the Facilities as provided in GCC Clause 64 (b) any occurrence of Force Majeure as provided in GCC Clause 52, unforeseen conditions as provided in GCC Clause 50, or other occurrence of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Sub-Clause 47.2 (c) any suspension order given by the Employer under GCC Clause 41 hereof or reduction in the rate of progress pursuant to GCC Sub-Clause 66.2 or (d) any changes in laws and regulations as provided in GCC Clause 51 or (e) any default or breach of the Contract by the Employer, Appendix to the Contract Agreement titled ,or any activity, act or omission of the Employer, or the Project Manager, or any other contractors employed by the Employer, or (f) any delay on the part of a sub-contractor, provided such delay is due to a cause for which the Contractor himself would have been entitled to an extension of time under this sub-clause, or (g) delays attributable to the Employer or caused by customs, or (h) any other matter specifically mentioned in the Contract <p>by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.</p>

	<p>65.2 Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Project Manager a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Employer and the Contractor shall agree upon the period of such extension. The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.</p> <p>In all cases where the Contractor has given a notice of a claim for an extension of time under GCC 65.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall there after comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GCC 65.1, the amount of such extra costs shall be added to the Contract Price.</p>
<p>66. Suspension</p>	<p>66.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons thereof. The Contractor shall thereupon suspend performance of such obligation, except those obligations necessary for the care or preservation of the Facilities, until ordered in writing to resume such performance by the Project Manager..</p> <p>If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Employer shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with GCC Clause 64, excluding the performance of the suspended obligations from the Contract.</p> <p>If the Employer fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with GCC Clause 64 or, where it affects the whole of the Facilities, as termination of the Contract under GCC Sub-Clause 66.1.</p>

	<p>66.2 if</p> <p>(a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix to the Contract Agreement titled Terms and Procedures of Payment, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, with interest thereon as stipulated in GCC Sub-Clause 57.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, or fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice or</p> <p>(b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas in accordance with GCC Sub-Clause 25.2, or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities,</p> <p>then the Contractor may by fourteen (14) days' notice to the Employer suspend performance of all or any of its obligations under the Contract, or reduce the rate of progress.</p> <p>66.3 If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GCC Clause 66, then the Time for Completion shall be extended in accordance with GCC Sub-Clause 40.1, and any and all additional costs or expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by the Employer to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of the Contractor's default or breach of the Contract.</p> <p>66.4 During the period of suspension, the Contractor shall not remove from the Site any Plant, any part of the Facilities or any Contractor's Equipment, without the prior written consent of the Employer.</p>
<p>H. Termination and Settlement of Disputes</p>	
<p>67. Termination</p>	<p>67.1 <u>Termination for Default</u></p> <p>(a) The Employer or the Contractor, without prejudice to any other remedy for breach of Contract, by giving twenty eight (28) days written notice of default to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of Contract.</p> <p>(b) Fundamental breaches of the Contract shall include, but shall</p>

not be limited to, the following:

- (i) the Contractor stops work for twenty-eight (28) days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
 - (ii) the Engineer instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within twenty-eight (28) days;
 - (iii) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
 - (iv) the Engineer gives Notice that the failure to achieve the progress in accordance with the updated Programme of Works by the Contractor is a non-fulfilment of contractual obligations and the Contractor fails to restore it within a reasonable period of time instructed by the Engineer;
 - (v) the Contractor does not maintain a Security, which is required;
 - (vi) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of Liquidated Damages can be paid, as specified in GCC Sub Clause 41.2;
 - (vii) the Contractor has subcontracted the whole of the Works or has assigned the Contract without the required agreement and without the approval of the Engineer;
 - (viii) the Contractor, in the judgment of the Employer has engaged in practices, as defined in GCC Sub Clause 39, in competing for or in executing the Contract.
- (c) A payment certified by the Engineer is not paid by the Employer to the Contractor within twenty eight (28) days of the date of the Engineer's certificate.

67.2 Termination for Insolvency

The Employer and the Contractor may at any time terminate the Contract by giving twenty eight (28) days written notice to the other party if either of the party becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to any party, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the other party.

67.3 Termination for Convenience

- (a) The Employer, by giving twenty eight (28) days written notice sent to the Contractor, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Employer's convenience, the extent to which performance of the Contractor under the Contract is terminated, and the date upon which such termination becomes effective. The termination shall take effect twenty eight (28) days after the later dates on which the Contractor receives

	<p>this notice or the Employer returns the Performance Security.</p> <p>(b) The Employer shall not terminate the contract under GCC Sub Clause 67.1 (a) in order to execute the contract itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor as stated under GCC Sub Clause 67.1(a).</p> <p>67.4 In the event the Employer terminates the Contract in whole or in part, the Employer shall accept the portion of the Works that are complete and ready for handing over after the Contractor's receipt of notice of termination of the Contract. For the remaining portion of the Works, the Employer may elect:</p> <ul style="list-style-type: none"> (a) to have any portion completed by the Contractor at the Contract terms and prices; and /or (b) to cancel the remainder and pay to the Contractor an agreed amount for partially completed Works and for materials and parts previously procured by the Contractor, or (c) except in the case of termination for convenience as stated under GCC Sub Clause 67, engage another Contractor to complete the Works, and in that case the Contractor shall be liable to the Employer for any cost that may be incurred in excess of the sum that would have been paid to the Contractor, if the work would have been executed and completed by him or her. <p>67.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as is reasonably possible</p>
68. Payment upon Termination	<p>68.1 If the Contract is terminated because of a fundamental breach of Contract under GCC Sub Clause 67.1 by the Contractor, the Project Manager shall issue a certificate for the value of the Works done and Plant and Materials ordered less advance payments received up to the date of the issue of the certificate and less the amount from percentage to apply to the contract value of the works not completed, as indicated in the PCC. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.</p> <p>68.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Project Manager shall issue a payment certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's foreign personnel employed solely on the Works and recruited specifically for the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.</p> <p>68.3 If the Contract is terminated for reasons of Force Majeure, the The Project Manager shall determine the value of the work done and issue a Payment Certificate which shall include.</p> <ul style="list-style-type: none"> (a) the amounts payable for any work carried out for which unit rates or prices are stated in the Contract;

	<p>(b) the cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Employer when paid for by the Employer, and the Contractor shall place the same at the Employer's disposal;</p> <p>(c) other costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;</p> <p>(d) the cost of removal of Temporary Works and Contractor's Equipment from the Site; and</p> <p>(e) the cost of repatriation of the Contractor's staff and labor employed wholly in connection with the Works at the date of termination.</p>
69. Property	<p>69.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default stated under GCC Sub Clause 67.1.</p>
70. Frustration	<p>70.1 If the Contract is frustrated by the occurrence of a situation of Force Majeure as defined in GCC Sub Clause 52, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out afterwards to which a commitment was made.</p>
I. Claims, Disputes and Arbitration	
71. Contractor's Claims	<p>71.1 If the Contractor considers himself to be entitled to any extension of the Completion Time and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give notice to the Employer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than twenty eight (28) days after the Contractor became aware, or should have become aware, of the event or circumstance.</p> <p>71.2 If the Contractor fails to give notice of a claim within such period of twenty eight (28) days, the Intended Completion Date shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim.</p> <p>71.3 Within forty two (42) days after the Contractor became aware or should have become aware of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Engineer a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed, for settlement.</p>

72. Settlement of Disputes

Amicable settlement

72.1 The Employer and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

Arbitration

72.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation as stated under GCC Clause 72.1, then either the Employer or the Contractor may give notice to the other party of its intention to commence arbitration in accordance with GCC Sub Clause 72.3, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration.

72.3 Arbitration shall be commenced prior to or after execution of the Works under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the PCC.

72.4 Notwithstanding any reference to arbitration hereinabove the parties shall continue to perform their respective responsibilities under the Contract unless agreed otherwise and, the Employer shall pay any monies due to the Contractor.

Section 4. Particular Conditions of Contract

Instructions for completing the Particular Conditions of Contract are provided in italics in parenthesis for the relevant GCC Clauses.

GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
GCC 1.1(j)	The Contractor is <i>[Name, address, and name of authorized representative]</i>
GCC 1.1(II)	The Employer is Chittagong Port Authority represented by Director (Security)
GCC 1.1(oo)	The Site is located at Chittagong Port Protected Area. And is defined in drawings No: Not applicable.
GCC 3.1	<p>The Procuring Entity's address for the purpose of communications under this contract is : Contact person: Director (Security) Address: Chittagong Port Authority, Chittagong-4100, Bangladesh. Telephone: 88-02 333310884 Fax No: 88-02 333310884 E-mail address: ds@cpa.gov.bd</p> <p>The Contractor's address for the purpose of communications under this contract is : Contact person: Address: Tel: Fax: e-mail address:</p>
GCC 6.1 (k)	Other documents forming part of the Contract are: (1) JV Agreement Copy (If Applicable).
GCC 9.2	Materials, Equipment Plants and supplies shall not have their origin in the following countries: Country with which Bangladesh has no commercial relation.
GCC 13.1	Possession of the Site or part(s) of the Site, to the Contractor shall be given on the following date(s): 07 (seven) days from the day of signing the contract.
GCC 22.3	<p>(i) Repair and maintenance (as necessary) during the 03 (three) years maintenance period shall be performed by the Supplier.</p> <p>(ii) Adequate stock of spares and consumable items shall be handed over to CPA by the Supplier for the contract period so that equipment shall not be kept non-operational for shortage of spares.</p> <p>(iii) The spare parts used by the contractor shall be of standard make (original & genuine). In case, the approved makes of spares are not available, then other makes of equivalent spares can be purchased by the contractor only after specific request to CPA representative and its subsequent approval. Contractor shall however bear full liability for any damage that occurs on account of any such purchase.</p>

	<p>(iv) Supplier shall return the out-of-order parts and consumables after replacing with new spares. The custody of all the Spare Parts shall remain under CPA.</p> <p>v) In any accidental case, additional spare parts required shall be provided by the Supplier at their own cost.</p> <p>vi) The duties, taxes, VAT etc. related to import of the spare parts and materials for the equipment's shall be borne by the Supplier.</p> <p>vii) The Supplier shall inform concern CPA personnel or their authorized representative immediately about any breakdown/out of order of the equipment with time and date. The contractor shall also inform the time and date of in order of the same. The contractor shall provide the condition of equipment everyday before 8.30am showing the previous day's maintenance history of the equipment's and the total number of equipment in good working condition/available for operation, the number of equipment under maintenance/out of order with cause & expected date/time of completion and the work plan for the equipment in that day.</p> <p>viii) The contractor shall provide a monthly statement for all the equipment, stating the repair and maintenance work including time required for the same and total downtime of the month, within the first week of the following month to the CPA's representative.</p>
GCC 23.1	The Contractor shall commence work as soon as the contract is signed.
GCC 24.1	The time for completion of the whole of the supply and installation shall be within 180 days from the date of Contract signing.
GCC 32.1	A Subcontractor that is a national of, or registered in, the following countries are not eligible: Not applicable.
GCC 33.1	Nominated Subcontractor(s) named below: Not applicable.
GCC 38.2	<p>a) Factory Acceptance Test (FAT): The factory acceptance test (FAT) shall be conducted at manufacturer's factory site for Archway Metal Detector, Baggage Scanner, Swing Barrier, Turnstile (Tripod), Face Recognition Terminal, and Hand Held Terminal (HHT).</p> <p>08 (Eight) of the Purchaser's Officials will attend FAT for 10 (Ten) working days (Excluding the time of Travel & Transit) at the manufacturers factory. All related cost including air fare, visa fees, food, lodging, daily allowances, local transportation, per diem as per Govt. rule per day etc. shall be borne by the supplier within the quoted price.</p> <p>b) Pre-shipment Inspection (PSI): Pre-shipment inspection will be conduct at manufactures factory site for Archway Metal Detector, Baggage Scanner, Swing Barrier, Turnstile (Tripod), Face Recognition Terminal, and Hand-Held Terminal (HHT).</p> <p>8(Eight) no. of purchaser's officials will attend at site for pre-shipment inspection for 10 (Ten) working days (Excluding the time of Travel & Transit). All related cost including air fare, visa fees, food, lodging, daily allowances, local transportation, per diem as per Govt. rule per day etc. shall be borne by the manufacturer within the quoted price.</p>
GCC 40.2.2	The Guarantee Test of the Facilities shall be successfully completed within [30] days from the date of Completion.
GCC 41.3	No bonus will be given for earlier Completion of the Facilities or part thereof.

GCC 42.3	The amount to be withheld for late submission of an updated Programme is Tk 10 (Ten) Thousand for failure of Every Report.
GCC 42.10	The critical components covered under the extended defect liability are: None.
GCC 45.1 (b)	The multiplier of the Contract Price is: None.
GCC 56.2	The Contract Price shall be adjusted in accordance with the provisions of the Appendix to the Contract Agreement titled Adjustment Clause: None.
GCC 59.3.1	The amount of performance security, as a percentage of the Contract Price for the Facility or for the part of the Facility for which a separate Time for Completion is provided, shall be: None.
GCC 59.3.3	The performance security shall not be reduced on the date [insert date] of the Operational Acceptance: Not applicable.
GCC 59.3.3	The performance security shall be reduced to ten percent (10%) of the value of the component covered by the extended defect liability to cover the Contractor's extended defect liability in accordance with the provision in the PCC, pursuant to GCC Sub-Clause 42.10.
GCC 63.1	<p>The amount of Liquidated Damages is 0.10 of ONE (1) percent of the contract value of the undelivered goods/works/services or for any part thereof delivered after expiry of the Delivery and Completion Schedule or extended Delivery and Completion Schedule, as applicable, per day of delay.</p> <p>In case any of the equipment is kept non-operational for more than 07 (seven) days, penalty at a rate of Taka 5,000/- (Five Thousand only) for each equipment shall be deducted from the suppliers monthly bill for additional days.</p>
GCC 63.2	The total amount of Liquidated Damages shall not exceed 10% of the contract price.
GCC 63.3	Once the cumulative amount of Liquidated Damages reaches ten (10) percent of the Contract price, the Employer may rescind the Contract, without prejudice to other courses of action and remedies open to it.
GCC 72.2	<p>The Adjudicator jointly appointed by the parties is:</p> <p>In case of disagreement between the parties, the matter will be settled through review panel of Chairman/ CPA.</p>

Appendix to the Tender

Table 1.1: Price Adjustment Data

[ITT Sub Clause 26.9: To be provided by the Procuring Entity]: Prices shall not be applicable for adjustment.

Table 1.2: Price Adjustment Data

[GCC Sub Clause 56.4: To be provided by the Procuring Entity]: Prices shall not be applicable for adjustment.

APPENDICES [This appendixes shall be the part of the contract]

- Appendix 1 - Terms and Procedures of Payment
- Appendix 2 - Price Adjustment
- Appendix 3 - Insurance Requirements
- Appendix 4 - Time Schedule
- Appendix 5 - List of Major Items of Plant and services and List of Approved Subcontractors
- Appendix 6 - Scope of Works and Supply by the Employer
- Appendix 7 - List of Documents for Approval or Review
- Appendix 8 - Functional Guarantees

Appendix 1. Terms and Procedures of Payment

In accordance with the provisions of GCC Clause 57 (Terms of Payment), the Employer shall pay the Contractor in the following manner and at the following times, on the basis of the Price Breakdown given in the section on Price Schedules. Payments will be made in the currencies quoted by the Tenderer unless otherwise agreed between the parties. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

(A) Terms of Payment

i. Payment of supplied goods: (No advance payment)

a) 50% (fifty percent) of Contract Price of Supplied Goods (Item 1 to 25 of 6.1.1 Scope of Supply) will be paid to the Contractor upon arrival and acceptance of the goods (along with successful completion of FAT & PSI) after being inspected by a committee duly constituted by the procuring Entity.

b) 40% (forty percent) of the contract price of supplied goods (Item 1 to 25 of 6.1.1 Scope of Supply) and 90% (ninety percent) price of installation services (Item 1 to 3 of 6.1.2 Scope of Installation and Related Services) will be paid to the Contractor upon installation of the goods and final acceptance of the goods and related services after being inspected by a committee duly constituted by the procuring entity.

c) Applicable VAT, Tax etc. as per Govt. rules will be deducted from the bill during payment.

d) All payment will be in BDT.

e) Remaining 10% (ten percent) of the contract price of supplied goods and 10% (ten percent) of the price of installation services will be paid to the contractor after successful completion of 1 (One) year warranty period and 3 (three) years maintenance period.

d) No additional payment shall be made on account of Repair & Maintenance during 01 (one) year warranty period.

ii. Payment on account of maintenance:

The method and conditions of Maintenance payment to be made to the contractor under the contract shall be as follows:

a) Payment on account of Maintenance shall commence after successful completion of 01 (one) year warranty period.

b) Payment to the Contractor shall be fixed amount on 03 (three) month basis i.e 1/12 portion of total amount as quoted on account of maintenance shall be paid quarterly. The Contractor shall submit bill of the preceding term in the first week of the following month and will be paid after deduction, if any, and upon certified by committee constituted by CPA. Income tax, VAT and any other taxes imposed by the government time to time shall be borne by the contractor which shall be deducted from the bill of the contractor.

Appendix 2. Price Adjustment

Prices shall not be applicable for adjustment.

Appendix 3. Insurance Requirements

As per existing Government rules.

Appendix 4. Time Schedule

Item no.	Description of Item	Unit	Quantity	Period
(1)	(2)	(3)	(4)	(5)
1	Archway Type Walk-Through Metal Detector	Each	25	180 days from the date of Contract signing
2	Baggage Scanner	Each	10	
3	Dual Lane Swing Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set)	Set	3	
4	Tripod Turnstile (Waist Height Turnstile)	Each	45	
5	Hand Held Metal Detector	Each	50	
6	Face Detection Terminal	Each	40	
7	Hand Held Terminal (HHT)	Each	60	
8	Barcode Scanner	Each	10	
9	Camera for Face Image Enrolment	Each	10	
10	32" LED Display	Each	30	
11	3 KVA Online UPS	Each	35	
12	Manageable Switch	Each	6	
13	32 Port SFP Switch	Each	4	
14	SFP Module	Pair	40	
15	Access Point	Each	30	
16	Rack Mounted Server	Each	4	
17	Rack with PDU	Each	2	
18	KVM Switch	Each	2	
19	ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided)	Each	6	
20	Desktop Set with Printer & UPS (Offline)	Set	10	
21	POS Printer	Each	20	
22	RFID Card	Each	100,000	
23	Under Vehicle Inspection Mirror	Each	20	
24	Network Accessories	Lot	1	
25	Installation	Lot	1	
26	Software	Lot	1	
27	Spares & Maintenance Work	Per Month	36	36 months from the end of 1 year warranty period
28	Monthly Maintenance Report	Per Month	36	

1. Details Technical Specification of Items to be Supplied

Item No.	Name of the Item	Technical Specification and Standards		Tenderer's Offer
1	Archway Type Walk-Through Metal Detector	Sensitivity	Should have Up to 200 distinct sensitivity levels	
		Optics	Should have 2 Infrared	
		Zone Indications	33 independent zones	
		Overhead Control Unit	Should have all electronics-LCD alarm light, LED bar graph, control touch pads integrated to eliminate wire exposure	
		Tamper-Proof Settings	Should have three access levels of security clearance	
		Self-Diagnostic Program	Should be complete and automatic	
		Calibration	Both Automatic and manual calibration.	
		Initialization Time	Should be 1 second.	
		Zone Sensitivity Boost	Should be Adjustable in six areas.	
		Maximum Pass-Through Speed	Should be 15m/sec.	
		Passageway Interior Size	Width 30" (0.76 m) apprx. Height 80" (2.03 m) apprx. Depth 23" (0.58 m) apprx.	
		Temperatures	Operating: -4° F (-20° C) to +149° F (65° C) Humidity to 95% non-condensing Storage: -40° F (-40° C) to 158° F (70° C)	
		Power	Should be fully automatic 100 to 240 VAC 50 or 60 Hertz, 45 watts apprx.	
		Regulatory Information	Should meet International Airport standards such as TSA, ECAC, STAC, AENA, CJIAC, DFT. Also should meet additional standards and requirements such as USMS, NIJ-0601.02, NILECJ. Electrical Safety and Compatibility Requirements for CE, FCC, CSA, IEC, ICNIRP, IEEE should be met as well.	
		Weather-proofing	Should meet IP 65. IEC 529 Standard for moisture foreign matter protection	
		Construction	Should have Attractive scratch and mar-resistant laminate. Detection Heads and Support: heavy duty aluminum. Immunity to electrical interference, ambient noise and mechanical vibrations.	
		Standard Programs	Should have over 20 application programs included.	
		Control Outputs	Should have solid state switches (low voltage AC or DC) for operating external alarms and control devices.	

		Alarm Indicators/ Random Alarm Feature	Should have 33 zones volume-adjustable audible tone bright LED visual and remote alarms Random alarm feature adjustable from 0 to 50 percent Alarm proportional with the mass of the detected object 90 db alarm at a 1m distance.	
		Warranty	24 months by OEM	
		Model	Garrett PD 6500i™ or Equivalent.	
		Brand	Garrett/ C.E.I.A or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
2	Baggage Scanner	Tunnel dimensions	Should be 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H)	
		Max. object size	Should be 615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)	
		Conveyor height	Should be approx. 800 mm (31.5")	
		Conveyor speed at mains	Should be approx. 0.2 / 0.24 [m/s]	
		Frequency	50 Hz / 60 Hz	
		Max. conveyor load	Should be 165 kg	
		Resolution (wire detectability)	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)	
		Penetration (steel)	standard: 35 mm • typical: 37 mm	
		External dose rate	≤ 1.0 µSv/h (0,1 mrem)	
		Film safety	Should be for high-speed films up to ISO 1600 (33 DIN)	
		Duty cycle	100 %, no warm-up procedure required	
		Anode voltage	160 kV cp	
		Cooling	Hermetically sealed oil bath	
		Beam direction	Diagonal	
		X-ray converter	L-shaped detector line, high resolution	
		Grey levels stored	4096	
		Image presentation	B/W, Color	
		Digital video memory	1280 x 1024 / 24 bit	
		Image evaluation functions	VARI-MAT, O2, OS, HIGH electronic zoom: stepless enlargement up to 64-times	
		Monitor	Flat Panel LCD Monitor	
		System Diagnostics Features	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)	

		Additional Features	Display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature of last 8 images, programmable priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 20,000 images), Two Interlock switches	
		Options	X-ACT, HI-TIP, SD Training System, Extended Image Storage of 500,000 images (HDD), Full Reverse Mode	
		Accessories	Keyboard Holder, Passive In-/Output Roller conveyors, Tunnel extensions, Monitor Theft Protection, Mobile Heavy Duty Rollers, Various Test Bags and Cases	
		X-ray leakage	Should meet all applicable laws and regulations with respect to X-ray emitting devices.	
		CE-labelling	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC, 2014/35/EU, 2014/30/EU	
		Sound pressure level	< 65 dB(A)	
		Operating-/ storage temperature	0° - 40°C / -20°C - +60°C	
		Humidity	5% - 95% (non-condensing)	
		Power supply	220-240 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz	
		Power consumption	approx. 0.8 kVA	
		Protection class system/ keyboard	IP 20 / IP 43	
		Dimensions	2004 (L) x 850 (W) x 1395 (H) [mm] 78.9" (L) x 33.5" (W) x 54.91" (H)	
		Warranty	12 Months by OEM	
		Model	HI-SCAN 6040C or Equivalent.	
		Brand	Smiths Detection/ Rapiscan/ Astrophysics/ L-3 Security & Detection Systems/ Varito/ XRC or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan/ Turkey	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
3	Dual Lane Swing	Throughput	Should be 20 - 30 People per minute apprx.	

	Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set)	Dimensions	Clear moving barriers fabricated from 0.5" (13 mm) thick acrylic with abrasion resistant coating. Barriers should be 35" high and come in widths to create 28" or near to the mentioned dimension	
		Unauthorised User Detection	Should have Standard sensor set	
		Booking Signal	Should have Adjustable booking signal	
		Sound Alarm	Should have Standard buzzer	
		Tailgating Detection	Should have Standard Range	
		Fail Safe /Secure Operation	In case of power outage should have Battery Back-up	
		Fire Alarm Connection	Should have emergency egress settings depending on local regulations and or customer request	
		Safety Sensors	Should be Standard	
		Cabinet Material	Should be Stainless steel	
		Cabinet Colour	Should be Standard stainless steel	
		Power Supply	110-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 80W apprx.	
		Operating Temperature	: -5°C / +23°F to +40°C / +104°F	
		Access Control Systems	Dry contacts for virtually any access controldevice	
		Card Reader Mount	Under the top of the cabinet. Max. dimensions: 80 x 130 x 50 mm / 2" x 5" x 2" (WxLxH)	
		Warranty	12 Months by OEM	
		Model	Alvarado ARGUS 60/ SU4500 or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
4	Tripod Turnstile (Waist Height Turnstile)	Cabinet Width	Should be 230 mm apprx.	
		Cabinet Height	Should be 1000 mm apprx.	
		Cabinet Length	Should be 900 mm apprx.	
		Passage Width	Should be 402 mm apprx.,	
		Barrier Height	Should be 864 mm apprx.,	
		Number of Arms	3	
		Arm Length	Should be 442 mm apprx.	
		Throughput	15-20 People per minute	
		Flow	Bi-directional, one direction at a time	
		Cabinet Material	Should be Stainless Steel	
		Cabinet Colour	Should be Silver	
		Cabinet Shape	Straight sides	
		Arm Material	Should be Stainless steel	
		Flooring / Mount	On dead-level, finished floor	

		Power Supply	100-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 35W apprx.	
		Operating Temperature	-15C to +45C	
		Warranty	12 Months by OEM	
		Model	Alvarado EDC Series (Preferably EDC-6X) or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
5	Hand Held Metal Detector	Indication	Should have Three-color LED	
		Controls	Should have Power switch (Audible/ Off/ Silent), Interference Elimination Switch	
		Tuning	Automatic	
		Sensitivity	Secure internal sensitivity adjustment	
		Audio Frequency	2 kHz Warble	
		Operating Temperatures	-35° F (-37° C) to 158° F (70° C)	
		Dimension	Width: 3.25" (8.3 cm), Thickness: 1.625" (4.1 cm), Length: 16.5" (42 cm)	
		Battery Requirements	Should have One 9V (included). Should provide up to 100 hours of normal operation.	
		Warranty	3 Year, Limited Parts/Labor	
		Model	Super Scanner-V or Equivalent.	
		Brand	Garrett/ Securina or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
6	Face Detection Terminal	CPU:	Nvidia ARM Cortex-A15, Quad-Core 2.1GHz	
		Display Size:	7" WVGA color capacitive touchscreen with Loudspeaker & microphone	
		Touchless face sensor:	Visible light camera (2D) Infrared camera (2D) 3D camera	
		Contactless reader options:	Prox, iClass, MIFARE/ DESFire, Natively supports PIN code	
		Internal storage capacity	20,000 user records extendable up to 40,000 250,000 IDs in authorized user list 1 Million transaction logs	
		Inputs/outputs	Wiegand In & Out (customizable up to 512 bits), OSDP, Door relay, 3 GPI (including door monitoring), 3 GPO	
		Mobile access	Yes	

		Network/ Communication	Ethernet, RS485, RS422, USB3, Wi-Fi and 4G options	
		Power supply	12 to 24 V DC (3A min @12V)	
		Operating conditions	Temperature: -10°C to 45°C (14°F to 113°F) Humidity: 10%>80% (non-condensing)	
		Ingress protection	IP65	
		Dimension	HxWxD: 325x143x110 mm/12.8x5.6x4.3 in	
		EMC/ Safety standards:	CE, CB, FCC, UL-294 Listed.	
		Warranty	12 Months	
		Model	Anviz FaceDeep 5 IRT or Equivalent.	
		Brand	Anviz/ IDEMIA/ ZKTeco or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
7	Hand Held Terminal (HHT)	Dimensions	6.96 in. L x 3.38 in. W x 1.12 in. H/176.8 mm L x 85.8 mm W x 28.4 mm H; Grip area: 3.179 in. W x 0.80 in. H/80.75 mm W x 20.3 mm H	
		Display	6.0-inch Full High Definition+ (1080 X 2160); LED backlight; optically bonded to touch panel	
		Imager Window	Corning® Gorilla® Glass	
		Touch Panel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately); Corning® Gorilla® Glass; Water droplet rejection; fingerprint resistant anti-smudge coating	
		Power	Rechargeable Li-Ion, PowerPrecision+ for real-time battery metrics; Standard Capacity: 4680 mAh (18.01-Watt hours); Extended Capacity: 7000 mAh (26.95 Watt hours); BLE battery: 4680 mAh; Qi compatible Wireless charge battery: 4680 mAh; fast charging, Warm Swap battery mode (standard SKUs); Hot Swap battery mode (premium SKUs)	
		Expansion Slot	User accessible MicroSD card supports up to 2 TB	
		SIM	TC78 only: 1 Nano SIM and 1 eSIM	
		Network Connections	TC73: WLAN, WPAN (Bluetooth); TC78: WWAN 5G	
		Keypad	On-screen keypad	

		Voice and Audio	Three microphones with noise cancellation; vibrate alert; dual speakers for loudness; Bluetooth wireless headset support; high quality speaker phone; PTT headset (Zebra USB-C) support; cellular circuit switch voice; HD Voice, including Super-wideband (SWB); Wideband (WB) and Fullband (FB)	
		Operating Temperature	-4° F to 122° F/-20° C to 50° C	
		Humidity	5% to 95% non-condensing	
		Drop Specification	Multiple 10 ft./3.05 m drops to concrete at room temp per MIL-STD 810H Multiple 8 ft./2.4 m drops to concrete over operating temp -20° C to 50° C per MIL-STD 810H	
		Sealing	IP65 and IP68 with battery per applicable IEC sealing specifications	
		Scanning	SE55 1D/2D Advanced Range Scan Engine with IntelliFocus™ technology; SE4770 1D/2D Scan Engine	
		Camera	Front — 8 MP; Rear — 16 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR (standard); Optical Image Stabilization (OIS) (premium SKUs only); Time of Flight (ToF) Sensor (premium SKUs only)	
		NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support; ECP1.0 and ECP2.0 polling support; Apple VAS certified; NFC Forum Certified and Google Smart Tap Ready	
		Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS including TSPEC	
		Bluetooth	Class 2, Bluetooth v5.2 and Secondary BLE for beaconing within BLE battery	
		Buttons	Programmable buttons for maximum flexibility: dual dedicated scan buttons; dedicated push-to-talk button; volume up/down buttons and Trigger button of Trigger Handle via Back I/O	
		Interface Ports	USB 2.0 (Back I/O — Host Only), USB 3.0 (Bottom Type C) — Super Speed (Host and Client)	
		Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi 6E (802.11ax); Wi-Fi™ certified; Wi-Fi™ 6E Certified; Dual Band Simultaneous; IPv4, IPv6	

		Data Rates	5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps; 2.4 GHz: 802.11b/g/n/ax — 20 MHz up to 286.8 Mbps 6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps	
		Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6; Wi-Fi Enhanced Open; WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Agile Multiband; WMM; WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; QoS Management; OCE	
		Warranty	12 Months by OEM	
		Model	Zebra TC78 or Equivalent.	
		Brand	Zebra/ Datalogic/ Panasonic or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
8	Barcode Scanner	Dimensions	Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D 18.5 cm H x 7.6 cm W x 13.2 cm D Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D 18.5 cm H x 7.7 cm W x 14.2 cm D	
		Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.	
		Supported Host Interfaces	USB, RS232, Keyboard Wedge Industrial Ethernet: EtherNet/IP, Profinet, Modbus TCP & Std TCP/IP	
		Battery	PowerPrecision+ 3100 mAh Li-Ion rechargeable battery	
		FIPS Security Certification and TAA Compliance	Certified Compliant with FIPS 140-3; Trade Agreement Act Compliant (specific configuration required)	
		User Indicators	Direct decode indicator; LEDs; beeper; vibration	
		Scans per Full Charge (Cordless)	80000	
		Image Capture	Basic	
		Aimer	520 nm laser	
		Image Sensor	Far: 1920 horizontal x 1080 vertical pixels Near: 1280 horizontal x 800 vertical pixels	
		Scanning Type	Should be omnidirectional and capable to scan 1D & 2D	

		Drop Specification	DS36X8: Withstands multiple 10.0 ft/3.0 m drops to concrete at room temperature Cordless: Withstands multiple 8.0 ft/2.4 m drops to concrete at -20° C to 50° C Corded: Withstands multiple 8.0 ft/2.4 m drops to concrete at -30° C to 50° C	
		Sealing	Scanner: IP65 and IP68 per applicable IEC sealing specifications FLB cradle: IP65	
		Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles	
		Warranty	12 Months	
		Model	DS3600-XR Ultra-Rugged Scanner or Equivalent.	
		Brand	Zebra/ Datalogic/ Honeywell or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
9	Camera for Face Image Enrolment	Camera	Minimum 18 MP	
		Video Resolution	Minimum 1920 x 1080 Pixel/ 30fps	
		Image Resolution	Minimum 1920 x 1080 Pixel	
		Interface	Should have USB 2.0 and microphone	
		Warranty	12 Months	
		Model	Logitech MX Brio 4K UHD or Equivalent.	
		Brand	Logitech/ Asus/ Optoma or Equivalent.	
10	32" LED Display	Resolution	Minimum 1920 x 1080 (FHD)	
		Aspect Ratio	Should have 16:9	
		Display Color	Minimum 16.7 M (8bit)	
		Viewing Angle	Minimum 178 degree horizontal and 178 degrees vertical	
		Response Time	Maximum 8ms	
		Interface	Minimum 1 VGA, 1 HDMI, 1 USB and speaker	
		Power Supply	Should have AC100~240V (+/-10%), 50/60 Hz	
		Power Consumption	Maximum standby power consumption 0.5W and operating power consumption 55W	
		Accessory	Should come with HDMI cable, power cable, remote control and hanging bracket	
		Warranty	12 Months	
		Brand	Dell/ HP/ Lenovo or Equivalent.	
11	3 KVA Online UPS	Output Capacity	Should be 3000VA/240W	
		Output Power Factor	Should be 0.8	
		Output Voltage Nominal	Range should be 220-240 VAC	
		Output Voltage Regulation	Should be 1%	

		Output Frequency Range	Should be 47-53 Hz or 57-63 Hz	
		Output AC-AC Efficiency	Minimum 92%	
		Output Battery Mode Efficiency	Minimum 88%	
		Input Configuration	Single phase line-neutral+PE	
		Input Nominal Voltage	Range should be 200-240 VAC	
		Input Voltage Range	Should be 110V-280V @50% load	
		Battery type	Should be maintenance free lead acid battery or equivalent	
		Battery backup time	Minimum 10 minutes	
		Battery brand	Minimum 9AH	
		Battery Blocks	Minimum 6	
		Temperature	Operating:0 to 40 deg. centigrade	
			Storage:-20 to 50 deg. Centigrade	
		Monitoring Software	Monitoring Software should be included with SNMP Card.	
		Management	Should be equipped with Smart RS 232/USB and should support Windows.	
		Warranty	12 Months	
12	Manageable Switch	Chassis Types	Rack mount	
		Interface	24x10/100/1000 Base-T 1x RJ45 management console port 4 GE SEP Uplink ports	
		Architecture	The Switch should support Stacking from Day 1 via standard interfaces for a scalable solution. Should support 1000Base- SX, LX, LH and T ports, should have at least 56 Gbps switching bandwidth, Should have switching throughput of up to 41 million PPs, MAC Address table size of 15000 entries	
		Layer 2 and Layer 3 feature	Should support IEEE 802.1Q (4000 VLAN IDs) and 1000 VLANs simultaneously	
			Should support Multiple VLAN Registration Protocol (MVRP, IEEE 802.1ak) for dynamic registration and deregistration of VLANs on ports in a VLAN bridged network	
			Should support Jumbo frames of 9000 bytes	
			Should support IPv4 Static IP routing, RIP from Day 1 with support for OSPF in future	
			Should support IPv4 Static IP routing	
	Should support VRRP for redundancy			

			Should support Multicast VLAN Registration (MVR) to distribute multicast streams across an Ethernet ring-based Layer 2 network and reduce the amount of bandwidth consumed by the multicast traffic	
		Manageability	The offered system shall support management via Web based GUI, CLI	
			Should support port mirroring and mirror traffic that is traversing interfaces or a VLAN on the switch to a different location for analysis	
			Should support IPv6 management features like neighbor discovery (RFC 4861), Telnet, SSH, SNMP, NTP, DNS	
			Should have monitoring technology like net flow/s-flow to randomly sample network packets and send the samples to a monitoring station	
			Should store multiple configuration and image files	
			Should have the capability to revert to the last known good state if the switch image, configuration and the backup configuration files become damaged beyond repair	
			Should support automatic configuration over the network from a pre-existing configuration file that is created and stored on a configuration server	
			Should support automatic software download feature using the DHCP message exchange process to download and install software packages.	
			Should support standard IP-MIB (RFC 4293) and SNMP v1, v2 & v3	
		Memory	Minimum DRAM 512 MB	
		Flash	Minimum 1 GB	
		CPU	Should have 800 MHz ARM CPU or higher	
		Power Supply	Standard Power Supply with necessary power cord to be provided. Bidder to mention the power in Watts along with PoE power budget	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ MikroTik or Equivalent.	
13	32 Port SFP Switch	Ports	28 Gigabit Ethernet (24 Gigabit SFP slots + 2 Gigabit Ethernet combo)	
		Flash	Minimum 256MB	
		Performance	Capacity in Millions of Packets per Second (mpps) (64-byte packets): 41.66 Switching Capacity in Gigabits per Second (Gbps): 56.0	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
14	SFP Module	Transfer Rate	1Gbps	

		Standard Operating Temperature	10°C ~ 70°C	
15	Access Point	CPU	Should be 4 core with a speed of 716 MHz or higher	
		RAM	128 MB or higher	
		Storage	16MB flash or higher	
		Number of Ethernet Ports	Minimum one 1G ports	
		Wireless	5 GHz and 2.4 GHz	
		Protocols	For 5Ghz 802.11a/n/ac and for 2.4GHz 802.11b/g/n	
		Chains	Dual-chain for both 5GHz and 2.4GHz	
		Wireless Interface Model	IPQ-4018 for both 5GHz and 2.4GHz	
		Antenna Gain	2.5dBi for both 5GHz and 2.4GHz	
		Antenna Beam Width	Should be 360 degrees	
		Power	Maximum power consumption should be 12W, and it should have PoE option	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
16	Rack Mounted Server	CPU	2x Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400	
		RAM	Minimum 64GB	
		Storage	4 x 600GB 10K RPM	
		PSU	450W hot plug redundancy	
		Network	2x 1gbps, 2x10gbps SFP	
		Operating System	Linux	
		Remote Management	Enterprise license	
		Warranty	12 Months	
		Brand	Dell/ HP or Equivalent.	
17	Rack with PDU	Size	42U	
		PDU	2 x Power distribution unit	
		Warranty	12 Months	
18	KVM Switch	Ports	8-ports	
		I/O Ports	VGA, PS2, USB	
		Touchpad	Must have touchpad	
		Keyboard	Must have keyboard	
		Display	17"	
		Warranty	12 Months	
19	ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided)	Print Resolution	Minimum 300 dpi	
		Memory	Minimum 2GB flash memory	
		Image Size	Minimum 1006 x 640 pixels	
		Interface	Should have USB 2.0 and Ethernet 10/100 connectivity	
		Card Capacity	Input Hopper: 100 card auto adjusting or	

		higher	
		Output Hopper: 100 card or higher	
	Card Feeding	Should have manual card feeding capability with LED bezel	
	Indicators	Should have printer status indicator lights	
	Security	Should have secure lock system and printer host authentication system along with data encryption option	
	Printing Features	Should have following printing features:	
		a. Full color or monochrome printing	
		b. Dual and single side printing	
		c. Edge-to-edge printing	
		d. For single sided monochrome minimum 800 cards/hour print, single sided YMCKO 200 cards/hour, dual sided YMCKOk 140 cards/hour, dual sided monochrome 450 coeds/hour	
		e. Printer ribbon should be same brand as the printer.	
	Card Types	Should have following card printing capability:	
		a. Card thickness: 10-40 mil	
		b. Card material: PVC and PVC Composite	
		c. Adhesive back and writeable back cards	
		d. Transparent cards	
		e. Card Size: CR80 ISO 7810 ID-1 format	
	Ambience	Operating temperature:15-35 degree Celsius	
		Storage Temperature: -5 to 70 degree Celsius	
		Humidity: 20% to 80% non-condensing	
	Warranty	12 Months	
	Model	Zebra ZC300 or Equivalent. (Ribbon: Zebra ZC100/ZC300 YMCKO Color Ribbon or Equivalent)	
	Brand	Zebra or Equivalent.	

20	Desktop Set with Printer & UPS (Offline)	Key Features	Specifications: Monitor: 21.5 Inch FHD Display HDMI, VGA (HP V22v or Equivalent), System Unit: Form Factor - Tower, Processor Type - Core i7, Processor Max Turbo Frequency - 4.90GHz, RAM - 8GB, Hard Disk Drive (HDD) - No, Solid-State Drive (SSD) - 512GB Graphics Memory - Shared (HP 280 Pro G9 12th Gen Intel Core i7 12700 Tower Brand PC or Equivalent), Offline UPS: Input Voltage (V) - 145-280V, Output Voltage (V) - 220/230 VAC +/-10%, Load Capacity - 720W, Back up time - Up to 15 Minutes (Power Guard PG1200VA or Equivalent), Printer: Output Color - Black & White, Print Speed (Black) - 40ppm(ISO) (A4), 42ppm(ISO) (LTR), Print Paper Size Max. - Legal, Interface (Built-in) - USB, LAN(HP LaserJet Pro 4003dn Single Function Mono Laser)	
		Warranty	12 Months	
		Brand:	HP/ Dell or Equivalent	
21	POS Printer	Key Features	Type Thermal Printer, Print Speed - 200 mm/sec, Print Width - 80mm, Print Resolution (Pixel) - 203 dpi, Interface (Built-in) - USB, Serial (Epson TM-T81III POS Printer or Equivalent) Warranty: 36 Months Brand: Epson or Equivalent.	
		Warranty	12 Months	
		Brand	Epson or Equivalent.	
22	RFID Card	Key Features	Type- RFID Card, Punching Capacity - No, Material - PVC (K2 Mango TK 28 or Equivalent)	
		Brand	K2 or Equivalent.	
23	Under Vehicle Inspection Mirror	Key Features	Under vehicle inspection mirror, wheels and flashlight, foldable, 30 cm x 30 cm acrylic mirror	
		Brand	Verbex or Equivalent.	
24	Network Accessories	To be Complied	The scope of Network Accessories shall cover all sort of Network Cables (FOC, Ethernet, Patch Cords etc.), RJ Ports, Connectors, Splicing Tools, TJ Boxes, Media Converters, ONUs, 8 Port Switches and all other tools and devices that are necessary for a complete access control networking.	

2. Details of Related Service to be provided with Supplied Items

1	Installation	Installation of All the Supplied Items of BOQ as per Standard with all the associated Software to run the Devices in a Seamless Manner. Licensed Software must be installed on the devices wherever applicable or required. For Installation of Imported & Major Devices OEM's Guideline must be followed by the Supplier. In required cases, OEM shall supervise the critical installation engaging their own personnel.	
2	Software	For smooth handshaking with the existing Access Control System Necessary Software (Oracle or other platform-based) must be provided at the Server & Control End. The Existing software must be Replaced or Upgraded if required. The supplier provided licenses must be updated along with updating the existing licenses as well. All the Source Codes and Access Credential must be Handed Over to CPA immediately after completion of the Software Installation & upgradation job. Supplier shall provide all the required Software (whether the software or the License) to activate the whole access control system including the existing one.	
3	Spares & Maintenance Work	<ul style="list-style-type: none"> i. All the Spares required for keeping the systems 24 x 7 functional must be provided with the supplied items and be handed over to the CPA after the completion of Installation Work. All the Spares must remain under CPA's Custody. The supplier must declare the list of Spares provided with the Items Delivered before the arrival of the Items at the CPA Premises. The list must be conspicuous and well-defined against each item. During replacement the out-of-order parts must be deposited to the respective person in the security department. Only after complying so shall the supplier be allowed to receive the parts to be replaced by CPA's Custody. ii. The maintenance period shall cover 36 months on successful completion of the One Year Warranty Period. The Supplier must maintain a Maintenance Log to claim the payment. iii. Required no of Manpower must be provided by the Supplier for the 36 months of Maintenance Period. The Supplier must engage the number of Manpower with Specific Qualification as mentioned below: <ul style="list-style-type: none"> - a. Maintenance Engr. - 2 Persons- With Specific Experience of min. 3 Years having B.Sc. (Engg.) Degree from any Reputed University. - b. Asst. Maintenance Engr. - 4 Persons- With Specific Experience of min. 5 Years having Diploma (Engg.) Degree from any Reputed Polytechnic College. - c. Technician - 10 Persons- Experience of min. 8 Years in respective job field. - d. Helper - 15 Persons- Experience of min. 2 Years in respective job field. 	

4	Monthly Maintenance Report	<p>The Supplier must prepare & furnish a monthly maintenance report for 36 months on successful completion of the One Year Warranty Period. No payment will be issued in favour of the supplier without submission of the mentioned Monthly Report. The Report shall cover the details of the health check of each of the devices with the clarification of replacement of spares if required.</p> <p>The reports must be duly signed at the end of each month by the competent authority of CPA.</p>
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Appendix 5. List of Major Items of Plant and Services and List of Approved Subcontractors

List of major items shall be as per section 6, Technical specification.

Appendix 6. Scope of Works and Supply by the Employer
Not applicable.

Site handover

Storage facility

Point of contact

Appendix 7. List of Documents for Approval or Review

Required drawings and specifications.
Work schedule

Appendix 8. Functional Guarantees

As per section 6, technical specification

Section 5. Tender and Contract Forms

Form	Title
Tender Forms	
PG5A – 1a	Tender Submission Letterfor Technical Proposal
PG5A – 1b	Tender Submission Letter for Financial (Price) Proposal
PG5A – 2a	Tenderer Information Sheet
PG5A – 2b	JVCA Partner Information
PG5A – 2c	Subcontractor Information
PG5A – 3	Price Schedule for Plant and Services
PG5A – 4	Technical Proposal
PG5A – 4a	Specification submission & compliance sheet.
PG5A– 5	Manufacturer’s Authorisation Letter
PG5A – 6	Bank Guarantee for Tender Security
PG5A – 6a	Letter of Commitment for Bank’s undertaking for Line of Credit (Form PG5A-6a)
Contract Forms	
PG5A – 7	Notification of Award
PG5A – 8	Contract Agreement
PG5A – 9	Bank Guarantee for Performance Security
PG5A– 10	Bank Guarantee for Advance Payment
PG5A– 11	Bank Guarantee for Retention Money Security (Form PG5A-11)

Forms PG5A-1a,PG5A-1b to PG5A-6, PG5A-6a comprises part of the Tender and should be completed as stated in ITT Clause 24.

Forms PG5A-7 to PG5A-11 and the appendices of the tender comprises part of the Contract as stated in GCC Clause 6.

Tender Submission Letter for Technical offer (Form PG5A-1a)

[This letter should be completed and signed by the Authorised Signatory preferably on the Letter-Head Pad of the Tenderer and be appended in the technical proposal envelope]

To:

[Contact Person]

[Name of Procuring Entity]

[Address of Procuring Entity]

Date:

Invitation for Tender No:

[indicate IFT No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots

[indicate number of Lot(s)]

We, the undersigned, offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Tender Document, the following Plant and Services, viz:

In signing this letter, and in submitting our Tender, we also confirm that:

- (a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub Clause 30.1) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (b) a Tender Security is attached in the form of a *[state pay order, bank draft, bank guarantee]* in the amount stated in the Tender Data Sheet (ITT Sub Clause 32) and valid for a period of twenty eight (28) days beyond the Tender validity date;
- (c) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*; including Addendum to Tender Document No(s) *[state numbers]* , issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum has been issued]*;
- (d) we, including as applicable, any JVCA partner or Subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub Clause 5.1;
- (e) we are submitting this Tender as a sole Tenderer in accordance with ITT Sub Clause 38.3

or

we are submitting this Tender as the partners of a JVCA, comprising the following other partners in accordance with ITT Sub Clause 18.1;

	Name of Partner	Address of Partner
1		
2		
3		
4		

- (f) *we are not a Government owned entity as defined in ITT Sub Clause 5.3 or we are a Government owned entity, and we meet the requirements of ITT Sub Clause 5.3;*
(delete one of the above as appropriate)
- (g) we, including as applicable any JVCA partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITT Sub Clause 5.5;
- (h) we, including as applicable any JVCA partner or Subcontractor for any part of the contract resulting from this Tender process, have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices in accordance with ITT Sub Clause 5.6;
- (i) furthermore, we are aware of ITT Clause 4 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- (j) we intend to subcontract an activity or part of the Works, in accordance with ITT Sub Clause 19.1, to the following Subcontractor(s);

Activity or part of the Plant and Services	Name of Subcontractor with Address

- (k) we, including as applicable any JVCA partner, confirm that we do not have a record of poor performance, such as abandoning the works, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Clause 5.7, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information (**Form PG5A-2b**);
- (l) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed;
- (m) we, including as applicable any JVCA partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITT Sub Clause 5.8;
- (n) we, including as applicable any JVCA partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of Bangladesh in accordance with ITT Sub Clause 5.9;
- (o) we understand that you reserve the right to reject all the Tenders or annul the Tender proceedings, without incurring any liability to Tenderers, in accordance with ITT Clause 59.

Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID Number, if applicable]</i>
In the capacity of:	<i>[insert capacity of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

*[If there is more than one (1) signatory, or in the case of a JVCA, add other boxes and sign accordingly].***Attachment 1:**

[ITT Sub Clause 38.3]

Written confirmation authorising the above signatory(ies) to commit the Tenderer

[and, if applicable]

Attachment 2:

[ITT Sub Clause 29.2(b)]

Copy of the JVCA Agreement / Letter of Intent to form JVCA with draft proposed Agreement

Tender Submission Letter for Financial offer (Form PG5A-1b)

[This letter should be completed and signed by the Authorised Signatory preferably on the Letter-Head Pad of the Tenderer and be appended in the financial proposal envelope]

To:

Date:

[Contact Person]

[Name of Procuring Entity]

[Address of Procuring Entity]

Invitation for Tender No:

[indicate IFT No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots

[indicate number of Lot(s)]

We, the undersigned, offer to design, manufacture, test, deliver, install, precommission and commission in conformity with the Tender Document, the following Plant and Services, viz:

In accordance with ITT Clauses 26 and 27, the following prices and discounts apply to our Tender:

The Tender Price is: (ITT Sub-Clause 26.1)	<i>[state amount in figures] and [state amount in words]</i>
Plant (including Mandatory Spare Parts) Supplied from abroad	<i>[state amount in figures] and [state amount in words]</i>
Plant (including Mandatory Spare Parts) supplied from within the Employer's Country	<i>Taka [state amount in figures] And Taka [state amount in words]</i>
Design Services	<i>[state amount in figures] and [state amount in words]</i>
Installation and Other Services	<i>[state amount in figures] and [state amount in words]</i>
Recommended Spare parts Price (If economic Factor is applicable)	<i>[state amount in figures] and [state amount in words]</i>
The Unconditional discount is (ITT Sub-Clause 23.11)	<i>[state amount in figures] and [state amount in words]</i>
The methodology for Application of the discount is:	<i>[state the methodology]</i>

and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG5A- 10.

In signing this letter, and in submitting our Tender, we also confirm that:

- a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub Clause 30.1) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- b) a Tender Security is attached in the form of a [state pay order, bank draft, bank guarantee] in the amount stated in the Tender Data Sheet (ITT Sub Clause 32) and valid for a period of twenty eight (28) days beyond the Tender validity date;
- c) if our Tender is accepted, we commit to furnishing a Performance Security within the time stated under ITT Sub Clause 65.1) and in the form specified in the Tender Data Sheet (ITT Sub Clause 66.1) valid for a period of twenty eight (28) days beyond the date of issue of the Completion Certificate of the Plants and Services;
- d) we have examined and have no reservations to the Tender Document, issued by you on [insert date]; including Addendum to Tender Document No(s) [state numbers] , issued in accordance with the Instructions to Tenderers (ITT Clause 11). [insert the number and issuing date of each addendum; or delete this sentence if no Addendum has been issued];
- e) we, including as applicable, any JVCA partner or Subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub Clause 5.1;
- f) we are submitting this Tender as a sole Tenderer in accordance with ITT Sub Clause 38.3 or
we are submitting this Tender as the partners of a JVCA, comprising the following other partners in accordance with ITT Sub Clause 18.1;

	Name of Partner	Address of Partner
1		
2		
3		
4		

- g) we are not a Government owned entity as defined in ITT Sub Clause 5.3 or
we are a Government owned entity, and we meet the requirements of ITT Sub Clause 5.3;
(delete one of the above as appropriate)
- h) we, including as applicable any JVCA partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITT Sub Clause 5.5;
- i) we, including as applicable any JVCA partner or Subcontractor for any part of the contract resulting from this Tender process, have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices in accordance with ITT Sub Clause 5.6;
- j) furthermore, we are aware of ITT Clause 4 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- k) we intend to subcontract an activity or part of the Works, in accordance with ITT Sub Clause 19.1, to the following Subcontractor(s);

Activity or part of the Plant and Services	Name of Subcontractor with Address

- l) we, including as applicable any JVCA partner, confirm that we do not have a record of poor performance, such as abandoning the works, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Clause 5.7, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information **(Form PG5A-2b)**;
- m) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed;
- n) we, including as applicable any JVCA partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITT Sub Clause 5.8;
- o) we, including as applicable any JVCA partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of Bangladesh in accordance with ITT Sub Clause 5.9;
- p) we understand that you reserve the right to reject all the Tenders or annul the Tender proceedings, without incurring any liability to Tenderers, in accordance with ITT Clause 61

Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
In the capacity of:	<i>[insert capacity of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

[If there is more than one (1) signatory, or in the case of a JVCA, add other boxes and sign accordingly]. **Attachment 1:**

[ITT Sub Clause 38.3]

Written confirmation authorising the above signatory(ies) to commit the Tenderer

[and, if applicable]

Attachment 2:

[ITT Sub Clause 29.2(b)]

Copy of the JVCA Agreement / Letter of Intent to form JVCA with draft proposed Agreement

Tenderer Information (Form PG5A-2a)

[This Form should be completed only by the Tenderer, preferably on its Letter-Head Pad]

Invitation for Tender No:

[indicate IFT No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots:

[indicate number of Lot(s)]

1. Eligibility Information of the Tenderer [ITT –Clauses 5 & 29]				
1.1	Nationality of individual or country of registration			
1.2	Tenderer's legal title			
1.3	Tenderer's registered address			
1.4	Tenderer's legal status <i>[complete the relevant box]</i>			
	Proprietorship			
	Partnership			
	Limited Liability Concern			
	Government-owned Enterprise			
	Others [please describe, if applicable]			
1.5	Tenderer's year of registration			
1.6	Tenderer's authorised representative details			
	Name			
	National ID number			
	Address			
	Telephone / Fax numbers			
	e-mail address			
1.7	Litigation [ITT Cause 13]			
	If there is no history of litigation or no pending litigation then state opposite "None". If there is a history of litigation, or a number of awards, against the Tenderer provide details below			
	<u>A. Arbitration Awards made against</u>			
	ar	Matter in dispute	Value of Award	Value of Claim

	B. <u>Arbitration Awards pending</u>			
	Year	Matter in dispute	Value of Claim	
1.8	Tenderer to attach photocopies of the original documents mentioned aside		[All documents required under ITT Clauses 5 and 29]	
The following two information are applicable for National Tenderers				
1.9	Tenderer's Value Added Tax Registration (VAT) Number			
1.10	Tenderer's Tax Identification Number(TIN)			
[The foreign Tenderers, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]				
2. Qualification Information of the Tenderer [ITT Clause 29]				
2.1 General Experience in Plant and Services of Tenderer				
	Start Month Year	End Month Year	Years	Contract No and Name of Contract Name and Address of Procuring Entity Brief description of Plant and Services
				Role of Tenderer [Contractor/Subcontractor /Management Contractor]
2.2 Specific Experience in Key Activities				
	Contract No Name of Contract		[insert reference no] of [insert year] [insert name]	
	Role in Contract [tick relevant box].		Contractor	Subcontractor Management Contractor
	Award date Completion date Total Contract Value		[insert date] [insert date] [insert amount]	
	Procuring Entity's Name Address Tel / Fax e-mail Brief description with justifications of the similarity compared to the Procuring Entity's		[state justification in support of its similarity compared to the proposed works]	

	requirements		
2.3	Average annual turnover [ITT Sub Clause 15.1(a)] <i>[amount invoiced to Procuring Entity(s) for each year of works in progress or completed, using rate of exchange at the end of the period reported]</i>		
	Year	Amount & Currency	amount in figures
2.4	Financial Resources available to meet the cash flow [ITT Sub Clause 15.1(b)]		
	No	Source of Financing	Amount Available
In order to confirm the above statements the Tenderer shall submit , as applicable, the documents mentioned in ITT Sub Clause 14.1(a), (b) and 15.1 (a), (b) & (c)			
2.5	Contact Details		
	Name, address, and other contact details of Tenderer Bankers and other Procuring Entity(s) that may provide references, if contacted by this Procuring Entity		
2.6	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [ITT Sub Clause 16.1]		
	Position Name Years of General Experience	Years of Specific Experience	
<i>[Tenderer to complete details of as many personnel as are applicable. Each personnel listed above should complete the Personnel Information (Form PG5A-5)]</i>			
2.7	Major Equipment proposed to carry out the Contract [ITT Sub Clause 17.1]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, lessor seller)

<i>[Tenderer to list details of each item of major equipment, as applicable]</i>			

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer		

JVCA Partner Information (Form PG5A-2b)

[This Form should be completed by each JVCA partner.]

Invitation for Tender No:

[indicate IFT No]

Tender Package No

[indicate Package No]

This Package is divided into the following Number of Lots

[indicate number of Lot(s)]

1. Eligibility Information of the JVCA Partner [ITT –Clauses 5 & 29]			
1.1	Nationality of Individual or country of Registration		
1.2	JVCA Partner's legal title		
1.3	JVCA Partner's registered address		
1.4	JVCA Partner's legal status <i>[complete the relevant box]</i>		
	Proprietorship		
	Partnership		
	Limited Liability Concern		
	Government-owned Enterprise		
	Other (please describe, if applicable)		
1.5	JVCA Partner's year of registration		
1.6	JVCA Partner's authorised representative details		
	Name		
	National ID number		
	Address		
	Telephone / Fax numbers		
	e-mail address		
1.7	Litigation [ITT Sub Cause 13]		
	If there is no history of litigation or no pending litigation then state "None". If there is a history of litigation, or a number of awards, against the JVCA Partner provide details below:		
	<u>A. Arbitration Awards made against</u>		
	Year	Matter in dispute	Value of Award
	<u>B. Arbitration Awards pending</u>		
	Year	Matter in dispute	Value of Claim

1.8	JVCA Partner to attach copies of the original documents mentioned aside		[All documents required under ITT Clauses 5 and 29]		
The following two information are applicable for national JVCA Partners only					
1.9	JVCA Partner's Value Added Tax Registration (VAT) Number				
1.10	JVCA Partner's Tax Identification Number (TIN)				
[The foreign JVCA Partners, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]					
2. Key Activity(ies) for which it is intended to be joint ventured [ITT Sub Clause 18.2 & 18.3]					
	Elements of Activity		Brief description of Activity		
3. Qualification Information of the JVCA Partner [ITT Clause 18]					
3.1	General Experience in Plant and Services of JVCA Partner				
	Start Month Year	End Month Year	Years	Contract No and & Name of Contract Name and Address of Procuring Entity Brief description of Works	Role of JVCA Partner [Contractor/Subcontract or/Management Contractor]
3.2	Specific Experience in Key Activities				
	Contract No Name of Contract		[insert reference no] of [insert year] [insert name]		
	Role in Contract [tick relevant box]		Contractor	Sub contra ctor	Management Contractor
	Award date Completion date Total Contract Amount		[insert date] [insert date] [insert amount]		
	Procuring Entity's Name Address Tel / Fax		[state justification in support of its similarity compared to the proposed plants and service]		

	<u>e-mail</u>	Brief description with justifications of the similarity compared to the Procuring Entity's requirements	
3.3	Average annual construction turnover [ITT Sub Clause 15.1 (a)] <i>[amount invoiced to Procuring Entity(s) for each year of work in progress or completed, using rate of exchange at the end of the period reported]</i>		
	Year	Amount & Currency	Amount in Figures
3.4	Financial Resources available to meet the cash flow [ITT Sub-Clause 15.1(b)]		
		Source of financing	Amount available
	In order to confirm the above statements the JVCA Partner shall submit , as applicable, the documents mentioned in ITT Sub Clause 14.1 (a) & (b) 15.1 (a), (b), (c) & (d)		
3.5	Contact Details		
	Name, address, and contact details of Tenderer's Bankers and other Procuring Entity(s) that may provide references if contacted by this Procuring Entity		
3.6	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [ITT Sub Clause 16.1]		
	Position Name Years of General Experience	Years of Specific Experience	
	<i>[Tenderer to complete details of as many personnel as are applicable. Each personnel listed above should complete the Personnel Information (Form PG5A-5)]</i>		
3.7	Major items of Construction Equipment proposed for carrying out the works [ITT Sub-Clause 17.1]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, leaser or seller)
<i>[Tenderer to list details of each item of Major equipment, as applicable]</i>			

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer		

Subcontractor Information (Form PG5A-2c)

[This Form should be completed by each Subcontractor, preferably on its Letter-Head Pad]

Invitation for Tender No:	<i>[indicate IFT No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of Lot(s)]</i>

1. Eligibility Information of the Subcontractor <i>[ITT –Clauses 5 & 29]</i>		
1.1	Nationality of Individual or country of Registration	
1.2	Subcontractor's legal title	
1.3	Subcontractor's registered address	
1.4	Subcontractor's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other(please describe)	
1.5	Subcontractor's year of registration	
1.6	Subcontractor's authorised representative details	
	Name	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Subcontractor to attach copies of the following original documents	All documents to the extent relevant to ITT Clause 5 and 29 in support of its qualifications
The following two information are applicable for national Subcontractors		
1.8	Subcontractor's Value Added Tax Registration (VAT) Number	
1.9	Subcontractor's Tax Identification Number(TIN)	
[The foreign Subcontractors , in accordance with ITT sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]		
2. Key Activity(ies) for which it is intended to be Subcontracted <i>[ITT Sub Clause 19.1]</i>		

2.1	Elements of Activity	Brief description of Activity	
2.2	List of Similar Contracts in which the proposed Subcontractor had been engaged		
	Name of Contract and Year of Execution		
	Value of Contract		
	Name of Procuring Entity		
	Contact Person and contact details		
	Type of Assignment performed		
Name:		<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:		<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer			

Price Schedule for Goods (Form PG5A-3)

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

A: PRICE OF GOODS AND DELIVERY SCHEDULE

1	2	3	3	4	5	6	7	8
Item No.	Description of Item	Country of Origin	Unit of Measurement	Qty Of units Required	Unit price	Total price (col. 4 × 5)	Point of Delivery as per Schedule of Requirement	Delivery Period Offered as per Schedule of Requirement
1	<p>Supply of Archway Type Walk-Through Metal Detector of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Sensitivity: Should have Up to 200 distinct sensitivity levels Zone Indications: 33 independent zones, Tamper-Proof Settings: Should have three access levels of security clearance Passageway Interior Size: Width 30" (0.76 m) apprx., Height 80" (2.03 m) apprx., Depth 23" (0.58 m) apprx., Weather-proofing: Should meet IP 65. Warranty: 24 months by OEM Model: Garrett PD 6500i TM or Equivalent. Brand: Garrett or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Each	25	(Note1)		(Note2)	180 days from the date of Contract signing

2	<p>Supply of Baggage Scanner of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p>Specifications: Tunnel dimensions : Should be 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H), Conveyor height : Should be approx. 800 mm (31.5") , Conveyor speed at mains : Should be approx. 0.2 / 0.24 [m/s], Frequency: 50 Hz / 60 Hz, Max. conveyor load : Should be 165 kg, Resolution (wire detectability): Standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm), Penetration (steel): Standard: 35 mm • typical: 37 mm, External dose rate: $\leq 1.0 \mu\text{Sv/h}$ (0,1 mrem), Film safety: Should be for high speed films up to ISO 1600 (33 DIN), Anode voltage: 160 kV cp Warranty: 12 Months by OEM Model: HI-SCAN 6040C or Equivalent. Brand: Smiths Detection/ Rapiscan/ Astrophysics/ L-3 Security & Detection Systems or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan/ Turkey Country of Shipment: Should be same as Country of Origin.</p>		Each	10	(Note1)		(Note2)	180 days from the date of Contract signing
3	<p>Supply of Dual Lane Swing Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set) of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p>Specifications: Throughput: Should be 20-30 People per minute apprx.Clear moving barriers fabricated from 0.5" (13 mm) thick acrylic with abrasion resistant coating. Barriers should be 35" high and come in widths to create 28" or near to the mentioned dimension.Cabinet Material: Should be Stainless steelPower Supply: 110-240 VAC, 50 / 60 HzOperating Temperature: -5°C / +23°F to +40°C / +104°FCard Reader Mount: Underneath the cabinet lid. Warranty: 12 Months by OEM Model: Alvarado ARGUS 60/ SU4500 or Equivalent. Brand: Alvarado/ Boon Edam/ Gunnebo or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Set	3	(Note1)		(Note2)	180 days from the date of Contract signing

4	<p>Supply of Tripod Turnstile (Waist Height Turnstile) of following Specifications with must having the provision for setting up the Face Recognition Terminal as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Passage Width: Should be 402 mm apprx., Barrier Height: Should be 864 mm apprx., Number of Arms: 3, Throughput: 15-20 People per minute, Flow: Bi-directional, one direction at a time, Cabinet Material: Should be Stainless Steel, Power Supply: 100-240 VAC, 50 / 60 Hz Warranty: 12 Months by OEM Model: Alvarado EDC Series (Preferably EDC-6X) or Equivalent. Brand: Alvarado/ Boon Edam/ Gunnebo or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Each	45	(Note1)		(Note2)	180 days from the date of Contract signing
5	<p>Supply of Hand-Held Metal Detector of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Indication: Should have Three-color LED Tuning: Automatic, Audio Frequency: 2 kHz Warble, Operating Temperatures: -35° F (-37° C) to 158° F (70° C), Dimension: Width: 3.25" (8.3 cm), Thickness:1.625" (4.1 cm), Length:16.5" (42 cm), Battery Requirements: Should have One 9V (included). Should provide up to 100 hours of normal operation. Warranty: 12 Months by OEM Model: Super Scanner-V or Equivalent. Brand: Garrett/ Securina or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Each	50	(Note1)		(Note2)	180 days from the date of Contract signing

6	<p>Supply of Face Detection Terminal of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> CPU: Nvidia ARM Cortex-A15, Quad-Core 2.1GHz Display Size: 7" WVGA color capacitive touchscreen with Loudspeaker & microphone, Power supply: 12 to 24 V DC (3A min @12V), Ingress protection: IP65, EMC/ Safety standards: CE, CB, FCC, UL-294 Listed., Touchless face sensor: Visible light camera(2D), Infrared camera(2D), 3D camera, Internal storage capacity: 20,000 user records extendable up to 40,000, 250,000 IDs in authorized user list, 1 Million transaction logs, Network/ Communication: Ethernet, RS485, RS422, USB3, Wi-Fi and 4G options, Dimension: (HxWxD) 325x143x110 mm/12.8x5.6x4.3 in Warranty: 12 Months Model: Anviz FaceDeep 5 IRT or Equivalent. Brand: IDEMIA/ ANVIZ/ ZKTeco or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Each	40	(Note1)		(Note2)	180 days from the date of Contract signing
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7	<p>Supply of Hand Held Terminal (HHT) of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Dimensions: 176.8 mm L x 85.8 mm W x 28.4 mm H; Display: 6.0 inch Full High Definition+ (1080 X 2160); LED backlight; Imager Window: Corning® Gorilla® Glass, Touch Panel: Multi mode capacitive touch with bare or gloved fingertip input , Power: Rechargeable Li-Ion, Standard Capacity: 4680 mAh (18.01 Watt hours); Extended Capacity: 7000 mAh (26.95 Watt hours); BLE battery: 4680 mAh; Expansion Slot: User accessible MicroSD card supports up to 2 TB, SIM: TC78 only: 1 Nano SIM and 1 eSIM, Keypad: On-screen keypad, Network Connections: TC73: WLAN, WPAN (Bluetooth); TC78: WWAN 5G, Drop Specification: Multiple 10 ft./3.05 m drops to concrete at room temp per MIL-STD 810H, Multiple 8 ft./2.4 m drops to concrete over operating temp -20° C to 50° C per MIL-STD 810H, Sealing : IP65 and IP68 with battery per applicable IEC sealing specifications, Scanning: SE55 1D/2D Advanced Range Scan Engine with IntelliFocus™ technology; SE4770 1D/2D Scan Engine, Camera: Front - 8 MP; Rear - 16 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR (standard); Bluetooth: Class 2, Bluetooth v5.2 Warranty: 12 Months Model: Zebra TC78 or Equivalent. Brand: Zebra/ Datalogic/ Panasonic or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>	Each	60	(Note1)	(Note2)	180 days from the date of Contract signing
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8	<p>Supply of Barcode Scanner of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Dimensions: Corded: 18.5 cm H x 7.6 cm W x 13.2 cm D, Cordless: 18.5 cm H x 7.7 cm W x 14.2 cm D, Input Voltage Range: Host powered: 4.5 VDC min., 5.5 VDC max., External power supply: 11.4 VDC min., 12.6 VDC max., Battery: PowerPrecision+ 3100 mAh Li-Ion rechargeable battery, Scans per Full Charge(Cordless): 80000, Image Capture: Basic, Aimer: 520 nm laser, Image SensorFar: 1920 horizontal x 1080 vertical pixels, Near: 1280 horizontal x 800 vertical pixels, Scanning Type: Should be omnidirectional and capable to scan 1D & 2D, Drop Specification: Cordless: Withstands multiple 8.0 ft/2.4 m drops to concrete at -20° C to 50° C, Corded: Withstands multiple 8.0 ft/2.4 m drops to concrete at -30° C to 50° C, Sealing: Scanner: IP65 and IP68 per applicable IEC sealing specifications, FLB cradle: IP65 Warranty: 12 Months Model: DS3600-XR Ultra-Rugged Scanner or Equivalent. Brand: Zebra/ Datalogic/ Honeywell or Equivalent. Country of Origin: USA/ Canada/ EU Countries/ UK/ Japan Country of Shipment: Should be same as Country of Origin.</p>		Each	10	(Note1)		(Note2)	180 days from the date of Contract signing
9	<p>Supply of Camera for Face Image Enrolment of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Camera Sensor Resolution: Minimum 8.5 MP, Video Resolution: Minimum 1920 x 1080 Pixel/ 30fps, Image Resolution: Minimum 1920 x 1080 Pixel, Interface: Should have USB 2.0 and microphone Warranty: 12 Months Model: Logitech MX Brio 4K UHD Brand: Logitech/ Asus/ Optoma or Equivalent.</p>		Each	10	(Note1)		(Note2)	180 days from the date of Contract signing

10	<p>Supply of 32" LED Display of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Resolution: Minimum 1920 x 1080 (FHD), Aspect Ratio: Should have 16:9, Display Color: Minimum 16.7 M (8bit), Response Time : Maximum 8ms, Interface: Minimum 1 VGA, 1 HDMI, 1 USB and speaker, Power Supply: Should have AC100~240V (+/-10%), 50/60 Hz, Power Consumption: Operating power consumption 55W Accessory: Should come with HDMI cable, power cable, remote control and hanging bracket Warranty:12 Months Brand: Dell/ HP/ Lenovo or Equivalent.</p>		Each	30	(Note1)		(Note2)	180 days from the date of Contract signing
11	<p>Supply of 3 KVA Online UPS of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Output Capacity: Should be 3000VA/240W, Output Power Factor : Should be 0.8, Output Nominal Voltage : Range should be 220-240 VAC, Output Voltage Regulation : Should be 1%, , Output Frequency Range : Should be 47-53 Hz or 57-63 Hz, Output AC-AC Efficiency: Minimum 92%, Output Battery Mode Efficiency: Minimum 88%, Input Nominal Voltage : Range should be 200-240 VAC, Input Voltage Range : Should be 110V-280V @50% load, Battery type: Should be maintenance free lead acid battery or equivalent, Battery backup time: Minimum 10 minutes, Battery Blocks: Minimum 6 Warranty:12 Months</p>		Each	35	(Note1)		(Note2)	180 days from the date of Contract signing

12	<p>Supply of Manageable Switch of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Chassis Types: Rack mount, Interface: 24x10/100/1000 Base-T, 1x RJ45 management console port, 4 GE SEP Uplink ports, Architecture: The Switch should support Stacking from Day 1 via standard interfaces for a scalable solution. , Should support 1000Base- SX, LX, LH and T ports, Should have at least 56 Gbps switching bandwidth, Should have switching throughput of up to 41 million PPs, MAC Address table size of 15000 entries, Layer 2 and Layer 3 feature: Should support IEEE 802.1Q (4000 VLAN IDs) and 1000 VLANs simultaneously, Should support Multiple VLAN Registration Protocol (MVRP, IEEE 802.1ak) for dynamic registration and deregistration of VLANs on ports in a VLAN bridged network, Should support IPv4 Static IP routing, Manageability: The offered system shall support management via Web based GUI, CLI, Should support port mirroring and mirror traffic that is traversing interfaces or a VLAN on the switch to a different location for analysis, Should support IPv6 management features like neighbor discovery (RFC 4861), Telnet, SSH, SNMP, NTP, DNS, Should support automatic software download feature using the DHCP message exchange process to download and install software packages., Should support standard IP-MIB (RFC 4293) and SNMP v1, v2 & v3, Memory: Minimum DRAM 512 MB, Flash: Minimum 1 GB, CPU: Should have 800 MHz ARM CPU or higher, Power Supply: Standard Power Supply with necessary power cord to be provided. Warranty:12 Months Brand: Netgear/ Cisco/ MikroTik or Equivalent.</p>		Each	6	(Note1)		(Note2)	180 days from the date of Contract signing
13	<p>Supply of 24 Port SFP Switch of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Ports: 22 Gigabit Ethernet (22 Gigabit SFP slots + 2 Gigabit Ethernet combo) Flash: Minimum 256MB Performance: Capacity in Millions of Packets per Second (mpps) (64-byte packets): 41.66 Switching Capacity in Gigabits per Second (Gbps): 56.0 Warranty: 12 Months Brand: Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.</p>		Each	4	(Note1)		(Note2)	180 days from the date of Contract signing

14	Supply of SFP Module of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Transfer Rate: 1Gbps Standard Operating Temperature: 10°C ~ 70°C		Pair	40	(Note1)		(Note2)	180 days from the date of Contract signing
15	Supply of Access Point of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> CPU: Should be 4 core with a speed of 716 MHz or higher, RAM: 128 MB or higher, Storage: 16MB flash or higher, Number of Ethernet Ports: Minimum one 1G ports, Wireless: 5 GHz and 2.4 GHz, Protocols: For 5Ghz 802.11a/n/ac and for 2.4GHz 802.11b/g/n, Chains: Dual-chain for both 5GHz and 2.4GHz, Wireless Interface Model: IPQ-4018 for both 5GHz and 2.4GHz, Antenna Gain: 2.5dBi for both 5GHz and 2.4GHz, Antenna Beam Width: Should be 360 degree, Power: Maximum 12 W and it should have PoE option Warranty: 12 Months Brand: Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.		Each	30	(Note1)		(Note2)	180 days from the date of Contract signing
16	Supply of Rack Mounted Server of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> CPU: 2x Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400, RAM: Minimum 64GB, Storage: 4 x 600GB 10K RPM, PSU: 450W hot plug redundancy, Network: 2x 1gbps, 2x10gbps SFP, Operating System: Linux, Remote Management: Enterprise license Warranty: 12 Months Brand: Dell/ HP or Equivalent		Each	4	(Note1)		(Note2)	180 days from the date of Contract signing
17	Supply of Rack with PDU of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Size: 42U, PDU: 2 x Power distribution unit, Warranty: 12 Months		Each	2	(Note1)		(Note2)	180 days from the date of Contract signing
18	Supply of KVM Switch of following Specifications as per approval of Officer In Charge of the Respective Department: <u>Specifications:</u> Ports: 8-ports, I/O Ports: VGA, PS2, USB, Display: 17", Touchpad: Must have touchpad, Keyboard: Must have keyboard Warranty: 12 Months		Each	2	(Note1)		(Note2)	180 days from the date of Contract signing

19	<p>Supply of ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided) of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Print Resolution: Minimum 300 dpi, Memory: Minimum 2GB flash memory, Image Size: Minimum 1006 x 640 pixelsInterface: Should have USB 2.0 and Ethernet 10/100 connectivity, Card Capacity: Input Hopper: 100 card auto adjusting or higher, Output Hopper: 100 card or higher, Card Feeding: Should have manual card feeding capability with LED bezel, Printing Features: a. Full color or monochrome printing, b. Dual and single side printing, c. Edge-to-edge printing, d. For single sided monochrome minimum 800 cards/hour print, single sided YMCKO 200 cards/hour, dual sided YMCKOk 140 cards/hour, dual sided monochrome 450 coeds/hour, e. Printer ribbon should be same brand as the printer, Card Types: a. Card thickness: 10-40 mil, b. Card material: PVC and PVC Composite, c. Adhesive back and writeable back cards, d. Transparent cards, e. Card Size: CR80 ISO 7810 ID-1 format Warranty: 12 Months Model: Zebra ZC300 or Equivalent. (Ribbon: Zebra ZC100/ZC300 YMCKO Color Ribbon or Equivalent) Brand: Zebra or Equivalent.</p>		Each	6	(Note1)		(Note2)	180 days from the date of Contract signing
20	<p>Supply of Desktop Set with Printer & UPS (Offline) of following Specifications as per approval of Officer In Charge of the Respective Department:</p> <p><u>Specifications:</u> Monitor: 21.5 Inch FHD Display HDMI, VGA (HP V22v or Equivalent), System Unit: Form Factor - Tower, Processor Type - Core i7, Processor Max Turbo Frequency - 4.90GHz, RAM - 8GB, Hard Disk Drive (HDD) - No, Solid-State Drive (SSD) - 512GB Graphics Memory - Shared (HP 280 Pro G9 12th Gen Intel Core i7 12700 Tower Brand PC or Equivalent), Offline UPS: Input Voltage (V) - 145-280V, Output Voltage (V) - 220/230 VAC +/- 10%, Load Capacity - 720W, Back up time - Up to 15 Minutes (Power Guard PG1200VA or Equivalent), Printer: Output Color - Black & White, Print Speed (Black) - 40ppm(ISO) (A4), 42ppm(ISO) (LTR), Print Paper Size Max. - Legal, Interface (Built-in) - USB, LAN(HP LaserJet Pro 4003dn Single Function Mono Laser) Warranty: 12 Months Brand: HP/ Dell or Equivalent</p>		Set	10	(Note1)		(Note2)	180 days from the date of Contract signing

21	Supply of POS Printer of following Specifications as per approval of Officer in Charge of the Respective Department: Specifications: Type - Thermal Printer, Print Speed - 200 mm/sec, Print Width - 80mm, Print Resolution (Pixel) - 203 dpi, Interface (Built-in) - USB, Serial Model: Epson TM-T81III POS Printer or Equivalent). Warranty: 12 Months Brand: Epson or Equivalent.		Each	20	(Note1)		(Note2)	180 days from the date of Contract signing
22	Supply of RFID Card of following Specifications as per approval of Officer In Charge of the Respective Department: Specifications: Type- RFID Card, Punching Capacity - No, Material - PVC Model: K2 Mango TK 28 or Equivalent. Brand: K2 or Equivalent.		Each	100,000	(Note1)		(Note2)	180 days from the date of Contract signing
23	Supply of Under Vehicle Inspection Mirror of following Specifications as per approval of Officer In Charge of the Respective Department: Specifications: Under vehicle inspection mirror, wheels and flashlight, foldable, 30 cm x 30 cm acrylic mirror Brand: Verbex or Equivalent.		Each	20	(Note1)		(Note2)	180 days from the date of Contract signing
24	Supply of Network Accessories as per approval of Officer In Charge of the Respective Department. The scope of Network Accessories shall cover all sort of Network Cables (FOC, Ethernet, Patch Cords etc.), RJ Ports, Connectors, Splicing Tools, TJ Boxes, Media Converters, ONUs, 8 Port Switches and all other tools and devices that are necessary for a complete access control networking.		Lot	1	(Note1)		(Note2)	180 days from the date of Contract signing

Note 1: All unit rates and prices quoted by the Tenderers against each basic item or activity shall include the Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges and premiums for banking and insurances, as applicable *and, shall be the delivered price in final destination or at point of delivery* and, thus forth the total Tender Price quoted by the Tenderers

Note 2: Tenderer will complete these columns as appropriate following the details specified in Section 6: Schedule of Requirements

Signature:	[insert signature of authorized representative of the Tenderer]
Name:	[insert full name of signatory with National ID]
In the capacity of:	[insert designation of signatory]
Duly authorised to sign the Tender for and on behalf of the Tenderer	

Price Schedule for Related Services (Form PG5A-3.1)

Invitation for Tender No:		Date:	
Tender Package No:		Package Description:	<i>[enter description as specified in Section 6]</i>
Tender Lot No:		Lot Description:	<i>[enter description as specified in Section 6]</i>

B: PRICE OF RELATED SERVICES (Including Spare Parts) AND COMPLETION SCHEDULE

1	2	3	3	4	5	6	7	
Item No.	Description of Item	Country of Origin	Unit of Measurement	Qty Of units Required	Unit Price	Total Price (col. 4 × 5)	Point of Completion as per Schedule of Requirement	Completion Schedule Offered as per Schedule of Requirement
1	Installation: Installation of All the Supplied Items of BOQ as per Standard with all the associated Software to run the Devices in a Seamless Manner. Licensed Software must be installed on the devices wherever applicable or required.		Lot	1	(Note1)		(Note2)	180 days from the date of Contract signing
2	Software: For smooth handshaking with the existing Access Control System Necessary Software (Oracle or other platform-based) must be provided at the Server & Control End. The Existing software must be Replaced or Upgraded if required. The supplier provided licenses must be updated along with updating the existing licenses as well. All the Source Codes and Access Credential must be Handed Over to CPA immediately after completion of the Software Installation & upgradation job.		Lot	1	(Note1)		(Note2)	180 days from the date of Contract signing

3	<p>Spares & Maintenance Work:</p> <p>i. All the Spares required for keeping the systems 24 x 7 functional must be provided with the supplied items and also be handed over to the CPA after the completion of Installation Work. All the Spares must remain under CPA's Custody. The supplier must declare the list of Spares provided with the Items Delivered before the arrival of the Items at the CPA Premises. The list must be conspicuous and well-defined against each item. During replacement the out-of-order parts must be deposited to the respective person of the security department. Only after complying so shall the supplier be allowed to receive the parts to be replaced from CPA's Custody.</p> <p>ii. The maintenance period shall cover 36 months on successful completion of the One Year Warranty Period. The Supplier must maintain a Maintenance Log to claim the payment.</p> <p>iii. Required no. of Manpower must be provided by the Supplier for the 36 months of the Maintenance Period. The Supplier must engage the required number of Manpower with Specific Qualification as mentioned below:</p> <ul style="list-style-type: none"> - a. Maintenance Engr. - 2 Persons- With Specific Experience of min. 3 Years having B.Sc (Engg.) Degree from any Reputed University. - b. Asst. Maintenance Engr. - 4 Persons- With Specific Experience of min. 5 Years having Diploma (Engg.) Degree from any Reputed Polytechnic College. - c. Technician - 10 Persons- Experience of min. 8 Years in respective job field. - d. Helper - 15 Persons- Experience of min. 2 Years in respective job field. 	N/A	Per Month	36	(Note1)		(Note2)	180 days from the date of Contract signing
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4	Monthly Maintenance Report: The Supplier must prepare & furnish a monthly maintenance report for 36 months on successful completion of the One Year Warranty Period. No payment will be issued in favour of the supplier without submission of the mentioned Monthly Report. The Report shall cover the details of the health check of each of the devices with the clarification of replacement of spares if required. The reports must be duly signed at the end of each month by the competent authority of CPA.	N/A	Per Month	36	(Note1)		(Note2)	180 days from the date of Contract signing
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Note 1: All unit rates and prices quoted by the Tenderers against each basic item or activity shall include the Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges and premiums for banking and insurances, as applicable, *and shall be the delivered price in final destination or at point of delivery* and, thus forth the total Tender Price quoted by the Tenderers.

Note 2: Tenderers will complete these columns as appropriate following the details specified in Section 6: Schedule of Requirements

Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

Technical Proposal (Form PG5A-4)

[The Revised Technical Proposal, if any, shall follow the same format and structure]

Site Organization

Method Statement

Mobilization Structure

Construction Structure

Plant

Safety Plan

Personnel

Equipment

Proposed subcontractors for Major Items of Plant and Services

Time Schedule

Personnel Information

[This Form should be completed for each person proposed by the Tenderer on Form PG5A-2a& PG5A-2b, where applicable]

Invitation for Tender No:	<i>[indicate IFT No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of Lot(s)]</i>

A. Proposed Position (tick the relevant box)			
B. Personal Data			
Name			
Date of Birth			
Years overall experience			
Years of specific experience			
National ID Number			
Years of employment with the Tenderer			
B. Professional Qualifications:			
1.			
2.			
C. Present Employment <i>[to be completed only if not employed by the Tenderer]</i>			
Name of Procuring Entity:			
Address of Procuring Entity:			
Present Job Title:			
Years with present Procuring Entity:			
Tel No:	Fax No:	e-mail address:	
Contact <i>[manager/personnel officer]</i> :			
D. Professional Experience			
Summarise professional experience over the last twenty years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.			
	From	To	Company / Project / Position / Relevant technical and management experience.
1			
2			
3			

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer		

Equipment Information

[The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in TDS . A Separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer]

Invitation for Tender No:	<i>[indicate IFT No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of Lot(s)]</i>

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information for equipment owned by the Tenderer.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Name:	<i>[insert full name of signatory]</i>	<i>Signature with Date and Seal</i>
In the capacity of:	<i>[insert designation of signatory]</i>	<i>[Sign]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer		

Proposed Subcontractors for Major Items of Plant and Installation Services

A list of major items of Plant and Installation Services is provided below.

The following Subcontractors and/or manufacturers are proposed for carrying out the item of the facilities indicated. Tenderers are free to propose more than one for each item

Major Items of Plant and Installation Services	Proposed Subcontractors/Manufacturers	Nationality

Form Functional Guarantee

The Tenderer shall copy in the left column of the table below, the identification of each functional guarantee required in the Specification and stated by the Employer in ITT 24(n) and in the right column, provide the corresponding value for each functional guarantee of the proposed plant and equipment.

Invitation for Tender No:	<i>[indicate IFT No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of lot(s)]</i>

Required Functional Guarantee	Value of Functional Guarantee of the Proposed Plant and Equipment
1.	
2.	
3.	
4.	
5.	
6.	

Specifications Submission and Compliance Sheet (Form PG5A-4a)

1. Details Technical Specification of Items to be Supplied

Item No.	Name of the Item	Technical Specification and Standards		Tenderer's Offer
1	Archway Type Walk-Through Metal Detector	Sensitivity	Should have Up to 200 distinct sensitivity levels	
		Optics	Should have 2 Infrared	
		Zone Indications	33 independent zones	
		Overhead Control Unit	Should have all electronics-LCD alarm light, LED bar graph, control touch pads integrated to eliminate wire exposure	
		Tamper-Proof Settings	Should have three access levels of security clearance	
		Self-Diagnostic Program	Should be complete and automatic	
		Calibration	Both Automatic and manual calibration.	
		Initialization Time	Should be 1 second.	
		Zone Sensitivity Boost	Should be Adjustable in six areas.	
		Maximum Pass-Through Speed	Should be 15m/sec.	
		Passageway Interior Size	Width 30" (0.76 m) apprx. Height 80" (2.03 m) apprx. Depth 23" (0.58 m) apprx.	
		Temperatures	Operating: -4° F (-20° C) to +149° F (65° C) Humidity to 95% non-condensing Storage: -40° F (-40° C) to 158° F (70° C)	
		Power	Should be fully automatic 100 to 240 VAC 50 or 60 Hertz, 45 watts apprx.	
		Regulatory Information	Should meet International Airport standards such as TSA, ECAC, STAC, AENA, CJIAC, DFT. Also should meet additional standards and requirements such as USMS, NIJ-0601.02, NILECJ. Electrical Safety and Compatibility Requirements for CE, FCC, CSA, IEC, ICNIRP, IEEE should be met as well.	
		Weather-proofing	Should meet IP 65. IEC 529 Standard for moisture foreign matter protection	
		Construction	Should have Attractive scratch and mar-resistant laminate. Detection Heads and Support: heavy duty aluminum. Immunity to electrical interference, ambient noise and mechanical vibrations.	
		Standard Programs	Should have over 20 application programs included.	
		Control Outputs	Should have solid state switches (low voltage AC or DC) for operating external alarms and control devices.	
		Alarm Indicators/Random Alarm Feature	Should have 33 zones volume-adjustable audible tone bright LED visual and remote alarms Random alarm feature adjustable from 0 to 50 percent Alarm proportional with the mass of the detected object 90 db alarm at a 1m distance.	

		Warranty	24 months by OEM	
		Model	Garrett PD 6500i [™] or Equivalent.	
		Brand	Garrett/ C.E.I.A or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
2	Baggage Scanner	Tunnel dimensions	Should be 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H)	
		Max. object size	Should be 615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)	
		Conveyor height	Should be approx. 800 mm (31.5")	
		Conveyor speed at mains	Should be approx. 0.2 / 0.24 [m/s]	
		Frequency	50 Hz / 60 Hz	
		Max. conveyor load	Should be 165 kg	
		Resolution (wire detectability)	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)	
		Penetration (steel)	standard: 35 mm • typical: 37 mm	
		External dose rate	≤ 1.0 μSv/h (0,1 mrem)	
		Film safety	Should be for high-speed films up to ISO 1600 (33 DIN)	
		Duty cycle	100 %, no warm-up procedure required	
		Anode voltage	160 kV cp	
		Cooling	Hermetically sealed oil bath	
		Beam direction	Diagonal	
		X-ray converter	L-shaped detector line, high resolution	
		Grey levels stored	4096	
		Image presentation	B/W, Color	
		Digital video memory	1280 x 1024 / 24 bit	
		Image evaluation functions	VARI-MAT, O2, OS, HIGH electronic zoom: stepless enlargement up to 64-times	
		Monitor	Flat Panel LCD Monitor	
		System Diagnostics Features	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)	
		Additional Features	Display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature of last 8 images, programmable priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 20,000 images), Two Interlock switches	

		Options	X-ACT, HI-TIP, SD Training System, Extended Image Storage of 500,000 images (HDD), Full Reverse Mode	
		Accessories	Keyboard Holder, Passive In-/Output Roller conveyors, Tunnel extensions, Monitor Theft Protection, Mobile Heavy Duty Rollers, Various Test Bags and Cases	
		X-ray leakage	Should meet all applicable laws and regulations with respect to X-ray emitting devices.	
		CE-labelling	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC, 2014/35/EU, 2014/30/EU	
		Sound pressure level	< 65 dB(A)	
		Operating-/ storage temperature	0° - 40°C / -20°C - +60°C	
		Humidity	5% - 95% (non-condensing)	
		Power supply	220-240 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz	
		Power consumption	approx. 0.8 kVA	
		Protection class system/ keyboard	IP 20 / IP 43	
		Dimensions	2004 (L) x 850 (W) x 1395 (H) [mm] 78.9" (L) x 33.5" (W) x 54.91" (H)	
		Warranty	12 Months by OEM	
		Model	HI-SCAN 6040C or Equivalent.	
		Brand	Smiths Detection/ Rapiscan/ Astrophysics/ L-3 Security & Detection Systems/ Varito/ XRC or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan/ Turkey	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
3	Dual Lane Swing Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set)	Throughput	Should be 20 - 30 People per minute apprx.	
		Dimensions	Clear moving barriers fabricated from 0.5" (13 mm) thick acrylic with abrasion resistant coating. Barriers should be 35" high and come in widths to create 28" or near to the mentioned dimension	
		Unauthorised User Detection	Should have Standard sensor set	
		Booking Signal	Should have Adjustable booking signal	
		Sound Alarm	Should have Standard buzzer	
		Tailgating Detection	Should have Standard Range	
		Fail Safe /Secure Operation	In case of power outage should have Battery Back-up	

		Fire Alarm Connection	Should have emergency egress settings depending on local regulations and or customer request	
		Safety Sensors	Should be Standard	
		Cabinet Material	Should be Stainless steel	
		Cabinet Colour	Should be Standard stainless steel	
		Power Supply	110-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 80W apprx.	
		Operating Temperature	: -5°C / +23°F to +40°C / +104°F	
		Access Control Systems	Dry contacts for virtually any access control device	
		Card Reader Mount	Under the top of the cabinet. Max. dimensions: 80 x 130 x 50 mm / 2" x 5" x 2" (WxLxH)	
		Warranty	12 Months by OEM	
		Model	Alvarado ARGUS 60/ SU4500 or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
4	Tripod Turnstile (Waist Height Turnstile)	Cabinet Width	Should be 230 mm apprx.	
		Cabinet Height	Should be 1000 mm apprx.	
		Cabinet Length	Should be 900 mm apprx.	
		Passage Width	Should be 402 mm apprx.,	
		Barrier Height	Should be 864 mm apprx.,	
		Number of Arms	3	
		Arm Length	Should be 442 mm apprx.	
		Throughput	15-20 People per minute	
		Flow	Bi-directional, one direction at a time	
		Cabinet Material	Should be Stainless Steel	
		Cabinet Colour	Should be Silver	
		Cabinet Shape	Straight sides	
		Arm Material	Should be Stainless steel	
		Flooring / Mount	On dead-level, finished floor	
		Power Supply	100-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 35W apprx.	
		Operating Temperature	-15C to +45C	
		Warranty	12 Months by OEM	
		Model	Alvarado EDC Series (Preferably EDC-6X) or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
5	Hand Held Metal	Indication	Should have Three-color LED	

	Detector	Controls	Should have Power switch (Audible/ Off/ Silent), Interference Elimination Switch	
		Tuning	Automatic	
		Sensitivity	Secure internal sensitivity adjustment	
		Audio Frequency	2 kHz Warble	
		Operating Temperatures	-35° F (-37° C) to 158° F (70° C)	
		Dimension	Width: 3.25" (8.3 cm), Thickness: 1.625" (4.1 cm), Length: 16.5" (42 cm)	
		Battery Requirements	Should have One 9V (included). Should provide up to 100 hours of normal operation.	
		Warranty	3 Year, Limited Parts/Labor	
		Model	Super Scanner-V or Equivalent.	
		Brand	Garrett/ Securina or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
6	Face Detection Terminal	CPU:	Nvidia ARM Cortex-A15, Quad-Core 2.1GHz	
		Display Size:	7" WVGA color capacitive touchscreen with Loudspeaker & microphone	
		Touchless face sensor:	Visible light camera (2D) Infrared camera (2D) 3D camera	
		Contactless reader options:	Prox, iClass, MIFARE/ DESFire, Natively supports PIN code	
		Internal storage capacity	20,000 user records extendable up to 40,000 250,000 IDs in authorized user list 1 Million transaction logs	
		Inputs/outputs	Wiegand In & Out (customizable up to 512 bits), OSDP, Door relay, 3 GPI (including door monitoring), 3 GPO	
		Mobile access	Yes	
		Network/ Communication	Ethernet, RS485, RS422, USB3, Wi-Fi and 4G options	
		Power supply	12 to 24 V DC (3A min @12V)	
		Operating conditions	Temperature: -10°C to 45°C (14°F to 113°F) Humidity: 10%>80% (non-condensing)	
		Ingress protection	IP65	
		Dimension	HxWxD: 325x143x110 mm/12.8x5.6x4.3 in	
		EMC/ Safety standards:	CE, CB, FCC, UL-294 Listed.	
		Warranty	12 Months	
		Model	Anviz FaceDeep 5 IRT or Equivalent.	
		Brand	Anviz/ IDEMIA/ ZKTeco or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	

		Authorization Letter	Must be issued by OEM.	
7	Hand Held Terminal (HHT)	Dimensions	6.96 in. L x 3.38 in. W x 1.12 in. H/176.8 mm L x 85.8 mm W x 28.4 mm H; Grip area: 3.179 in. W x 0.80 in. H/80.75 mm W x 20.3 mm H	
		Display	6.0-inch Full High Definition+ (1080 X 2160); LED backlight; optically bonded to touch panel	
		Imager Window	Corning® Gorilla® Glass	
		Touch Panel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately); Corning® Gorilla® Glass; Water droplet rejection; fingerprint resistant anti-smudge coating	
		Power	Rechargeable Li-Ion, PowerPrecision+ for real-time battery metrics; Standard Capacity: 4680 mAh (18.01-Watt hours); Extended Capacity: 7000 mAh (26.95 Watt hours); BLE battery: 4680 mAh; Qi compatible Wireless charge battery: 4680 mAh; fast charging, Warm Swap battery mode (standard SKUs); Hot Swap battery mode (premium SKUs)	
		Expansion Slot	User accessible MicroSD card supports up to 2 TB	
		SIM	TC78 only: 1 Nano SIM and 1 eSIM	
		Network Connections	TC73: WLAN, WPAN (Bluetooth); TC78: WWAN 5G	
		Keypad	On-screen keypad	
		Voice and Audio	Three microphones with noise cancellation; vibrate alert; dual speakers for loudness; Bluetooth wireless headset support; high quality speaker phone; PTT headset (Zebra USB-C) support; cellular circuit switch voice; HD Voice, including Super-wideband (SWB); Wideband (WB) and Fullband (FB)	
		Operating Temperature	-4° F to 122° F/-20° C to 50° C	
		Humidity	5% to 95% non-condensing	
		Drop Specification	Multiple 10 ft./3.05 m drops to concrete at room temp per MIL-STD 810H Multiple 8 ft./2.4 m drops to concrete over operating temp -20° C to 50° C per MIL-STD 810H	
		Sealing	IP65 and IP68 with battery per applicable IEC sealing specifications	
		Scanning	SE55 1D/2D Advanced Range Scan Engine with IntelliFocus™ technology; SE4770 1D/2D Scan Engine	

		Camera	Front — 8 MP; Rear — 16 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR (standard); Optical Image Stabilization (OIS) (premium SKUs only); Time of Flight (ToF) Sensor (premium SKUs only)	
		NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support; ECP1.0 and ECP2.0 polling support; Apple VAS certified; NFC Forum Certified and Google Smart Tap Ready	
		Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS including TSPEC	
		Bluetooth	Class 2, Bluetooth v5.2 and Secondary BLE for beaconing within BLE battery	
		Buttons	Programmable buttons for maximum flexibility: dual dedicated scan buttons; dedicated push-to-talk button; volume up/down buttons and Trigger button of Trigger Handle via Back I/O	
		Interface Ports	USB 2.0 (Back I/O — Host Only), USB 3.0 (Bottom Type C) — Super Speed (Host and Client)	
		Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi 6E (802.11ax); Wi-Fi™ certified; Wi-Fi™ 6E Certified; Dual Band Simultaneous; IPv4, IPv6	
		Data Rates	5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps; 2.4 GHz: 802.11b/g/n/ax — 20 MHz up to 286.8 Mbps 6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps	
		Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6; Wi-Fi Enhanced Open; WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Agile Multiband; WMM; WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; QoS Management; OCE	
		Warranty	12 Months by OEM	
		Model	Zebra TC78 or Equivalent.	
		Brand	Zebra/ Datalogic/ Panasonic or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
8	Barcode Scanner	Dimensions	Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D 18.5 cm H x 7.6 cm W x 13.2 cm D Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D 18.5 cm H x 7.7 cm W x 14.2 cm D	

		Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.	
		Supported Host Interfaces	USB, RS232, Keyboard Wedge Industrial Ethernet: EtherNet/IP, Profinet, Modbus TCP & Std TCP/IP	
		Battery	PowerPrecision+ 3100 mAh Li-Ion rechargeable battery	
		FIPS Security Certification and TAA Compliance	Certified Compliant with FIPS 140-3; Trade Agreement Act Compliant (specific configuration required)	
		User Indicators	Direct decode indicator; LEDs; beeper; vibration	
		Scans per Full Charge (Cordless)	80000	
		Image Capture	Basic	
		Aimer	520 nm laser	
		Image Sensor	Far: 1920 horizontal x 1080 vertical pixels Near: 1280 horizontal x 800 vertical pixels	
		Scanning Type	Should be omnidirectional and capable to scan 1D & 2D	
		Drop Specification	DS36X8: Withstands multiple 10.0 ft/3.0 m drops to concrete at room temperature Cordless: Withstands multiple 8.0 ft/2.4 m drops to concrete at -20° C to 50° C Corded: Withstands multiple 8.0 ft/2.4 m drops to concrete at -30° C to 50° C	
		Sealing	Scanner: IP65 and IP68 per applicable IEC sealing specifications FLB cradle: IP65	
		Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles	
		Warranty	12 Months	
		Model	DS3600-XR Ultra-Rugged Scanner or Equivalent.	
		Brand	Zebra/ Datalogic/ Honeywell or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
9	Camera for Face Image Enrolment	Camera	Minimum 18 MP	
		Video Resolution	Minimum 1920 x 1080 Pixel/ 30fps	
		Image Resolution	Minimum 1920 x 1080 Pixel	
		Interface	Should have USB 2.0 and microphone	
		Warranty	12 Months	
		Model	Logitech MX Brio 4K UHD or Equivalent.	
		Brand	Logitech/ Asus/ Optoma or Equivalent.	
10	32" LED Display	Resolution	Minimum 1920 x 1080 (FHD)	
		Aspect Ratio	Should have 16:9	

		Display Color	Minimum 16.7 M (8bit)	
		Viewing Angle	Minimum 178 degree horizontal and 178 degrees vertical	
		Response Time	Maximum 8ms	
		Interface	Minimum 1 VGA, 1 HDMI, 1 USB and speaker	
		Power Supply	Should have AC100~240V (+/-10%), 50/60 Hz	
		Power Consumption	Maximum standby power consumption 0.5W and operating power consumption 55W	
		Accessory	Should come with HDMI cable, power cable, remote control and hanging bracket	
		Warranty	12 Months	
		Brand	Dell/ HP/ Lenovo or Equivalent.	
11	3 KVA Online UPS	Output Capacity	Should be 3000VA/240W	
		Output Power Factor	Should be 0.8	
		Output Nominal Voltage	Range should be 220-240 VAC	
		Output Voltage Regulation	Should be 1%	
		Output Frequency Range	Should be 47-53 Hz or 57-63 Hz	
		Output AC-AC Efficiency	Minimum 92%	
		Output Battery Mode Efficiency	Minimum 88%	
		Input Configuration	Single phase line-neutral+PE	
		Input Nominal Voltage	Range should be 200-240 VAC	
		Input Voltage Range	Should be 110V-280V @50% load	
		Battery type	Should be maintenance free lead acid battery or equivalent	
		Battery backup time	Minimum 10 minutes	
		Battery brand	Minimum 9AH	
		Battery Blocks	Minimum 6	
		Temperature	Operating:0 to 40 deg. centigrade	
			Storage:-20 to 50 deg. Centigrade	
		Monitoring Software	Monitoring Software should be included with SNMP Card.	
		Management	Should be equipped with Smart RS 232/USB and should support Windows.	
		Warranty	12 Months	
12	Manageable Switch	Chassis Types	Rack mount	
		Interface	24x10/100/1000 Base-T 1x RJ45 management console port 4 GE SEP Uplink ports	

		Architecture	The Switch should support Stacking from Day 1 via standard interfaces for a scalable solution. Should support 1000Base- SX, LX, LH and T ports, should have at least 56 Gbps switching bandwidth, Should have switching throughput of up to 41 million PPs, MAC Address table size of 15000 entries	
		Layer 2 and Layer 3 feature	Should support IEEE 802.1Q (4000 VLAN IDs) and 1000 VLANs simultaneously	
			Should support Multiple VLAN Registration Protocol (MVRP, IEEE 802.1ak) for dynamic registration and deregistration of VLANs on ports in a VLAN bridged network	
			Should support Jumbo frames of 9000 bytes	
			Should support IPv4 Static IP routing, RIP from Day 1 with support for OSPF in future	
			Should support IPv4 Static IP routing	
			Should support VRRP for redundancy	
			Should support Multicast VLAN Registration (MVR) to distribute multicast streams across an Ethernet ring-based Layer 2 network and reduce the amount of bandwidth consumed by the multicast traffic	
		Manageability	The offered system shall support management via Web based GUI, CLI	
			Should support port mirroring and mirror traffic that is traversing interfaces or a VLAN on the switch to a different location for analysis	
			Should support IPv6 management features like neighbor discovery (RFC 4861), Telnet, SSH, SNMP, NTP, DNS	
			Should have monitoring technology like net flow/s-flow to randomly sample network packets and send the samples to a monitoring station	
			Should store multiple configuration and image files	
			Should have the capability to revert to the last known good state if the switch image, configuration and the backup configuration files become damaged beyond repair	
			Should support automatic configuration over the network from a pre-existing configuration file that is created and stored on a configuration server	
			Should support automatic software download feature using the DHCP message exchange process to download and install software packages.	
			Should support standard IP-MIB (RFC 4293) and SNMP v1, v2 & v3	
		Memory	Minimum DRAM 512 MB	

		Flash	Minimum 1 GB	
		CPU	Should have 800 MHz ARM CPU or higher	
		Power Supply	Standard Power Supply with necessary power cord to be provided. Bidder to mention the power in Watts along with PoE power budget	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ MikroTik or Equivalent.	
13	32 Port SFP Switch	Ports	28 Gigabit Ethernet (24 Gigabit SFP slots + 2 Gigabit Ethernet combo)	
		Flash	Minimum 256MB	
		Performance	Capacity in Millions of Packets per Second (mpps) (64-byte packets): 41.66 Switching Capacity in Gigabits per Second (Gbps): 56.0	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
14	SFP Module	Transfer Rate	1Gbps	
		Standard Operating Temperature	10°C ~ 70°C	
15	Access Point	CPU	Should be 4 core with a speed of 716 MHz or higher	
		RAM	128 MB or higher	
		Storage	16MB flash or higher	
		Number of Ethernet Ports	Minimum one 1G ports	
		Wireless	5 GHz and 2.4 GHz	
		Protocols	For 5Ghz 802.11a/n/ac and for 2.4GHz 802.11b/g/n	
		Chains	Dual-chain for both 5GHz and 2.4GHz	
		Wireless Interface Model	IPQ-4018 for both 5GHz and 2.4GHz	
		Antenna Gain	2.5dBi for both 5GHz and 2.4GHz	
		Antenna Beam Width	Should be 360 degrees	
		Power	Maximum power consumption should be 12W, and it should have PoE option	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
16	Rack Mounted Server	CPU	2x Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400	
		RAM	Minimum 64GB	
		Storage	4 x 600GB 10K RPM	
		PSU	450W hot plug redundancy	
		Network	2x 1gbps, 2x10gbps SFP	
		Operating System	Linux	
		Remote Management	Enterprise license	
		Warranty	12 Months	
		Brand	Dell/ HP or Equivalent.	
17	Rack with PDU	Size	42U	

18	KVM Switch	PDU	2 x Power distribution unit	
		Warranty	12 Months	
		Ports	8-ports	
		I/O Ports	VGA, PS2, USB	
		Touchpad	Must have touchpad	
		Keyboard	Must have keyboard	
		Display	17"	
		Warranty	12 Months	
19	ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided)	Print Resolution	Minimum 300 dpi	
		Memory	Minimum 2GB flash memory	
		Image Size	Minimum 1006 x 640 pixels	
		Interface	Should have USB 2.0 and Ethernet 10/100 connectivity	
		Card Capacity	Input Hopper: 100 card auto adjusting or higher	
			Output Hopper: 100 card or higher	
		Card Feeding	Should have manual card feeding capability with LED bezel	
		Indicators	Should have printer status indicator lights	
		Security	Should have secure lock system and printer host authentication system along with data encryption option	
		Printing Features	Should have following printing features:	
			a. Full color or monochrome printing	
			b. Dual and single side printing	
			c. Edge-to-edge printing	
			d. For single sided monochrome minimum 800 cards/hour print, single sided YMCKO 200 cards/hour, dual sided YMCKOk 140 cards/hour, dual sided monochrome 450 coeds/hour	
			e. Printer ribbon should be same brand as the printer.	
		Card Types	Should have following card printing capability:	
			a. Card thickness: 10-40 mil	
			b. Card material: PVC and PVC Composite	
			c. Adhesive back and writeable back cards	
			d. Transparent cards	
			e. Card Size: CR80 ISO 7810 ID-1 format	
		Ambience	Operating temperature:15-35 degree Celsius	
			Storage Temperature: -5 to 70 degree Celsius	
			Humidity: 20% to 80% non-condensing	
		Warranty	12 Months	
		Model	Zebra ZC300 or Equivalent. (Ribbon: Zebra ZC100/ZC300 YMCKO Color Ribbon or Equivalent)	
		Brand	Zebra or Equivalent.	

20	Desktop Set with Printer & UPS (Offline)	Key Features	Specifications: Monitor: 21.5 Inch FHD Display HDMI, VGA (HP V22v or Equivalent), System Unit: Form Factor - Tower, Processor Type - Core i7, Processor Max Turbo Frequency - 4.90GHz, RAM - 8GB, Hard Disk Drive (HDD) - No, Solid-State Drive (SSD) - 512GB Graphics Memory - Shared (HP 280 Pro G9 12th Gen Intel Core i7 12700 Tower Brand PC or Equivalent), Offline UPS: Input Voltage (V) - 145-280V, Output Voltage (V) - 220/230 VAC +/-10%, Load Capacity - 720W, Back up time - Up to 15 Minutes (Power Guard PG1200VA or Equivalent), Printer: Output Color - Black & White, Print Speed (Black) - 40ppm(ISO) (A4), 42ppm(ISO) (LTR), Print Paper Size Max. - Legal, Interface (Built-in) - USB, LAN(HP LaserJet Pro 4003dn Single Function Mono Laser)	
		Warranty	12 Months	
		Brand:	HP/ Dell or Equivalent	
21	POS Printer	Key Features	Type Thermal Printer, Print Speed - 200 mm/sec, Print Width - 80mm, Print Resolution (Pixel) - 203 dpi, Interface (Built-in) - USB, Serial (Epson TM-T81III POS Printer or Equivalent) Warranty: 36 Months Brand: Epson or Equivalent.	
		Warranty	12 Months	
		Brand	Epson or Equivalent.	
22	RFID Card	Key Features	Type- RFID Card, Punching Capacity - No, Material - PVC (K2 Mango TK 28 or Equivalent)	
		Brand	K2 or Equivalent.	
23	Under Vehicle Inspection Mirror	Key Features	Under vehicle inspection mirror, wheels and flashlight, foldable, 30 cm x 30 cm acrylic mirror	
		Brand	Verbex or Equivalent.	
24	Network Accessories	To be Complied	The scope of Network Accessories shall cover all sort of Network Cables (FOC, Ethernet, Patch Cords etc.), RJ Ports, Connectors, Splicing Tools, TJ Boxes, Media Converters, ONUs, 8 Port Switches and all other tools and devices that are necessary for a complete access control networking.	

2. Details of Related Service to be provided with Supplied Items

1	Installation	Installation of All the Supplied Items of BOQ as per Standard with all the associated Software to run the Devices in a Seamless Manner. Licensed Software must be installed on the devices wherever applicable or required. For Installation of Imported & Major Devices OEM's Guideline must be followed by the Supplier. In required cases, OEM shall supervise the critical installation engaging their own personnel.	
2	Software	For smooth handshaking with the existing Access Control System Necessary Software (Oracle or other platform-based) must be provided at the Server & Control End. The Existing software must be Replaced or Upgraded if required. The supplier provided licenses must be updated along with updating the existing licenses as well. All the Source Codes and Access Credential must be Handed Over to CPA immediately after completion of the Software Installation & upgradation job. Supplier shall provide all the required Software (whether the software or the License) to activate the whole access control system including the existing one.	
3	Spares & Maintenance Work	<ul style="list-style-type: none"> i. All the Spares required for keeping the systems 24 x 7 functional must be provided with the supplied items and be handed over to the CPA after the completion of Installation Work. All the Spares must remain under CPA's Custody. The supplier must declare the list of Spares provided with the Items Delivered before the arrival of the Items at the CPA Premises. The list must be conspicuous and well-defined against each item. During replacement the out-of-order parts must be deposited to the respective person in the security department. Only after complying so shall the supplier be allowed to receive the parts to be replaced by CPA's Custody. ii. The maintenance period shall cover 36 months on successful completion of the One Year Warranty Period. The Supplier must maintain a Maintenance Log to claim the payment. iii. Required no of Manpower must be provided by the Supplier for the 36 months of Maintenance Period. The Supplier must engage the number of Manpower with Specific Qualification as mentioned below: <ul style="list-style-type: none"> - a. Maintenance Engr. - 2 Persons- With Specific Experience of min. 3 Years having B.Sc. (Engg.) Degree from any Reputed University. - b. Asst. Maintenance Engr. - 4 Persons- With Specific Experience of min. 5 Years having Diploma (Engg.) Degree from any Reputed Polytechnic College. - c. Technician - 10 Persons- Experience of min. 8 Years in respective job field. - d. Helper - 15 Persons- Experience of min. 2 Years in respective job field. 	

4	Monthly Maintenance Report	<p>The Supplier must prepare & furnish a monthly maintenance report for 36 months on successful completion of the One Year Warranty Period. No payment will be issued in favour of the supplier without submission of the mentioned Monthly Report. The Report shall cover the details of the health check of each of the devices with the clarification of replacement of spares if required.</p> <p>The reports must be duly signed at the end of each month by the competent authority of CPA.</p>
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Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

Manufacturer's Authorisation Letter (Form PG5A - 5)

*[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Tenderer shall include it in its tender, if so indicated in the **TDS as stated under ITT Sub-Clause 29.1(b)**]*

Invitation for Tender No:	Date:
Tender Package No:	
Tender Lot No:	
To: Name and address of Employer]	

WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Plant and Equipment, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated under GCC Clause 42 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

Bank Guarantee for Tender Security (Form PG5A– 6)

[this is the format for the Tender Security to be issued by a scheduled bank of Bangladesh as stated under ITT Clauses 32 and 33]

Invitation for Tender No:

Date:

Tender Package No:

Tender Lot No:

To:

[Name and address of Employer]

TENDER GUARANTEE No:

We have been informed that *[insert name of Tenderer]* (hereinafter called “the Tenderer”) intends to submit to you its Tender dated *[insert date of Tender]* (hereinafter called “the Tender”) for the supply and installation of *[description of plant and services]* under the above Invitation for Tenders (hereinafter called “the IFT”).

Furthermore, we understand that, according to your conditions, Tenders must be supported by a Bank Guarantee for Tender Security .

At the request of the Tenderer, we *[insert name of bank]* hereby irrevocably and unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk.*[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

- a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security ; or
- b. refused to accept the Notification of Award (NOA) within the period as stated under Instructions to Tenderers (ITT) ; or
- c. failed to furnish Performance Security within the period as stipulated in the NOA; or
- d. refused to sign the Contract Agreement by the time specified in the NOA; or
- e. did not accept the correction of the Tender price following the correction of the arithmetic errors in accordance with the ITT; or

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copies of the contract signed by the Tenderer and the Performance Security issued to you in accordance with the ITT; or
- (b) if the Tenderer is not the successful Tenderer, twenty eight (28) days after the expiration of the Tenderer’s Tender validity period, being *[date of expiration of the Tender validity plus twenty eight(28) days]*

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Letter of Commitment for Bank's undertaking for Line of Credit (Form PG5A-6a)

[This is the format for the Credit Line to be issued by any scheduled Bank of Bangladesh in accordance with ITT Clause 15.1(b)]

Invitation for Tender No:

Date:

Tender Package No:

Lot No (*when applicable*)

To:

[Name and address of the Procuring Entity]

CREDIT COMMITMENT No: [insert number]

We have been informed that *[name of Tenderer]* (hereinafter called "the Tenderer") intends to submit to you its Tender (hereinafter called "the Tender") for the execution of the Supply and Installation of Plant & Equipment of *[description of works]* under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, the Tenderer's Financial Capacity i.e. Liquid Asset must be substantiated by a Letter of Commitment of Bank's Undertaking for Line of Credit.

At the request of, and arrangement with, the Tenderer, we *[name and address of the Bank]* do hereby agree and undertake that *[name and address of the Tenderer]* will be provided by us with a revolving line of credit, in case awarded the Contract, for execution of the Works viz. *[insert name of works]*, for an amount not less than BDT *[in figure](in words)* for the sole purpose of the execution of the above Contract. This Revolving Line of Credit will be maintained by us until issuance of "**Taking-Over Certificate**" by the Procuring Entity.

In witness whereof, authorised representative of the Bank has hereunto signed and sealed this Letter of Commitment.

Signature

Signature

Notification of Award (Form PG5A - 7)

Contract No:

Date:

To:

[Name of Contractor]

This is to notify you that your Tender dated *[insert date]* for the supply and installation of plant and Services for *[name of contract]* for the Contract Price of *[state amount in figures and in words]* as corrected and modified in accordance with the Instructions to Tenderers, has been approved by *[name of Employer]*.

You are thus requested to take following actions:

- i. accept in writing the Notification of Award within seven (7) working days of its issuance pursuant to ITT Sub-Clause 64.1
- ii. furnish a Performance Security in the specified format and in the amount of Tk.*[state amount in figures and words]* ,within Twenty-eight (28) days from issue of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 64.3
- iii. sign the Contract within twenty eight (28) days of issuance of this Notification of Award but not later than *(specify date)*, in accordance with ITT Clause 69.2

You may proceed with the execution of the supply of Plant and Services only upon completion of the above tasks. You may also please note that this Notification of Award shall constitute the formation of this Contract, which shall become binding upon you.

We attach the draft Contract and all other documents for your perusal and signature.

Signed

Duly authorised to sign for and on behalf of *[name of Employer]*

Date:

Contract Agreement (Form PG5A - 8)

THIS AGREEMENT made the [day] day of [month][year] between [name and address of Employer] (hereinafter called "the Employer") of the one part and [name and address of Contractor] (hereinafter called "the Contractor") of the other part:

WHEREAS the Employer invited Tenders for certain plant and services, viz, [brief description of plant and services] and has accepted a Tender by the Contractor for the supply of those plant and services in the sum of Taka [Contract Price in figures and in words] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.
2. The following documents forming the Contract shall be in the following order of precedence, namely :
 - (a) the signed Form of Contract Agreement;
 - (b) the Notification of Award
 - (c) The Tender and the appendices to the Tender
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Price Schedules of Plant and Equipment and;
 - (i) other document including correspondences listed in the PCC forming part of the Contract
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to provide the plants and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the provision of the plant and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement. Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

IN WITNESS whereof the Employer and the Contractor have caused this Agreement to be duly executed by their duly authorized representatives in accordance with the laws of Bangladesh on the day, month and year first written above.

Signed by, for and on behalf of the Employer

For the Employer:

For the Contractor:

Signature

Print Name

Title

In the presence
of Name
Address

Bank Guarantee for Performance Security (Form PG5A – 9)

[This is the format for the Performance Security to be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable in accordance with ITT Sub-Clause 67.1 pursuant to Rule 27(4) of the Public Procurement Rules, 2008.]

Contract No:

Date:

To:

[Name and address of Employer]

PERFORMANCE GUARANTEE No: *[insert Performance Guarantee number]*

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply and installation of *[description of plant and services]* under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Contractor, we *[name of bank]* hereby irrevocably and unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk. *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Supplier is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Bank Guarantee for Advance Payment (Form PG5A – 10)

[this is the format for the Advance Payment Security to be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable in accordance with GCC Clause 57.1]

Contract No:

Date:

To:

[Name and address of Employer]

ADVANCE PAYMENT GUARANTEE No.:

We have been informed that *[name of Contractor]* (hereinafter called “the Contractor”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply and installation of *[description of plant and services]* under the Contract.

Furthermore, we understand that, according to your Particular Conditions of Contract Clause 26.1, Advance Payment(s) on Contracts must be supported by a bank guarantee.

At the request of the Contractor, we *[name of bank]* hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk.*[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Employer and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

[Signatures of authorized representatives of the bank]

Signature

Seal

Bank Guarantee for Retention Money Security(Form PG5A-11)

[This is the format for the Retention Money Guarantee to be issued by any scheduled Bank of Bangladesh in accordance with GCC Clause 57]

Demand Guarantee

[Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: [insert Name and Address of the Procuring Entity]

Date: [insert date]

RETENTION MONEY GUARANTEE No.: [insert number]

We have been informed that [insert name of Contractor] (hereinafter called "the Contractor") has entered into Contract Number [insert reference number of the Contract] dated [insert date] with you, for the execution of [insert name of Contract and brief description of Works] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment, payment of Tk. [insert the amount of the second half of the Retention Money] which becomes due after the Defects Liability Period has passed and certified in the form of Defects Correction Certificate, is to be made against a Retention Money Guarantee.

At the request of the Contractor, we [insert name of Bank] hereby irrevocably unconditionally undertake to pay you any sum or sums not exceeding in total an amount of Tk. [insert amount in figures] (Taka [insert amount in words]) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor failed to properly correct the defects duly notified in respect of the Supply and Installation of Plant & Equipment.

It is a condition for any claim and payment under this guarantee to be made that the payment of the second half of the Retention Money referred to above must have been received by the Contractor on its account number[insert A/C no] at [name and address of Bank].

This guarantee is valid until [insert the date of validity of Guarantee that being twenty-eight (28) days beyond the Defects Liability Period]. Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Section 6. Employer's Requirements

Table of Contents

6.1 Scope of Supply of Plant and Installation Services by the Contractor	inset page #]
6.2 Specification	[inset page #]
6.3 Form of Completion Certificate	[inset page #]
6.4 Form of Operational Acceptance Certificate	[inset page #]
6.5 Change Order Procedure and Forms	[inset page #]
Annex 1. Request for Change Proposal	[inset page #]
Annex 2. Estimate or Change Proposal	[inset page #]
Annex 3. Acceptance of Estimate	[inset page #]
Annex 4. Change Proposal	[inset page #]
Annex 5. Change Order	[inset page #]
Annex 6. Pending Agreement Change Order	[inset page #]
Annex 7. Application for Change Proposal	[inset page #]
6.6 Supplementary Information	?

6.1 Scope of Supply, Installation, Maintenance and Related Services by the Supplier

Item no.	Description of Item	Unit	Quantity	Period
(1)	(2)	(3)	(4)	(5)
1	Archway Type Walk-Through Metal Detector	Each	25	180 days from the date of Contract signing
2	Baggage Scanner	Each	10	
3	Dual Lane Swing Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set)	Set	3	
4	Tripod Turnstile (Waist Height Turnstile)	Each	45	
5	Hand Held Metal Detector	Each	50	
6	Face Detection Terminal	Each	40	
7	Hand Held Terminal (HHT)	Each	60	
8	Barcode Scanner	Each	10	
9	Camera for Face Image Enrolment	Each	10	
10	32" LED Display	Each	30	
11	3 KVA Online UPS	Each	35	
12	Manageable Switch	Each	6	
13	32 Port SFP Switch	Each	4	
14	SFP Module	Pair	40	
15	Access Point	Each	30	
16	Rack Mounted Server	Each	4	
17	Rack with PDU	Each	2	
18	KVM Switch	Each	2	
19	ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided)	Each	6	
20	Desktop Set with Printer & UPS (Offline)	Set	10	
21	POS Printer	Each	20	
22	RFID Card	Each	100,000	
23	Under Vehicle Inspection Mirror	Each	20	
24	Network Accessories	Lot	1	
25	Installation	Lot	1	
26	Software	Lot	1	
27	Spares & Maintenance Work	Per Month	36	36 months from the end of 1 year warranty period
28	Monthly Maintenance Report	Per Month	36	

6.2 Technical Specifications (Purchaser's Requirement in Details)

Item No.	Name of the Item	Technical Specification and Standards		Tenderer's Offer
1	Archway Type Walk-Through Metal Detector	Sensitivity	Should have Up to 200 distinct sensitivity levels	
		Optics	Should have 2 Infrared	
		Zone Indications	33 independent zones	
		Overhead Control Unit	Should have all electronics-LCD alarm light, LED bar graph, control touch pads integrated to eliminate wire exposure	
		Tamper-Proof Settings	Should have three access levels of security clearance	
		Self-Diagnostic Program	Should be complete and automatic	
		Calibration	Both Automatic and manual calibration.	
		Initialization Time	Should be 1 second.	
		Zone Sensitivity Boost	Should be Adjustable in six areas.	
		Maximum Pass-Through Speed	Should be 15m/sec.	
		Passageway Interior Size	Width 30" (0.76 m) apprx. Height 80" (2.03 m) apprx. Depth 23" (0.58 m) apprx.	
		Temperatures	Operating: -4° F (-20° C) to +149° F (65° C) Humidity to 95% non-condensing Storage: -40° F (-40° C) to 158° F (70° C)	
		Power	Should be fully automatic 100 to 240 VAC 50 or 60 Hertz, 45 watts apprx.	
		Regulatory Information	Should meet International Airport standards such as TSA, ECAC, STAC, AENA, CJIAC, DFT. Also should meet additional standards and requirements such as USMS, NIJ-0601.02, NILECJ. Electrical Safety and Compatibility Requirements for CE, FCC, CSA, IEC, ICNIRP, IEEE should be met as well.	
		Weather-proofing	Should meet IP 65. IEC 529 Standard for moisture foreign matter protection	
		Construction	Should have Attractive scratch and mar-resistant laminate. Detection Heads and Support: heavy duty aluminum. Immunity to electrical interference, ambient noise and mechanical vibrations.	
		Standard Programs	Should have over 20 application programs included.	
		Control Outputs	Should have solid state switches (low voltage AC or DC) for operating external alarms and control devices.	
		Alarm Indicators/Random Alarm Feature	Should have 33 zones volume-adjustable audible tone bright LED visual and remote alarms Random alarm feature adjustable from 0 to 50 percent Alarm proportional with the mass of the detected object 90 db alarm at a 1m distance.	
		Warranty	24 months by OEM	

2		Model	Garrett PD 6500i TM or Equivalent.	
		Brand	Garrett/ C.E.I.A or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
	Baggage Scanner	Tunnel dimensions	Should be 620 (W) x 420 (H) [mm] • 24.4" (W) x 16.5" (H)	
		Max. object size	Should be 615 (W) x 410 (H) [mm] • 24.2" (W) x 16.1" (H)	
		Conveyor height	Should be approx. 800 mm (31.5")	
		Conveyor speed at mains	Should be approx. 0.2 / 0.24 [m/s]	
		Frequency	50 Hz / 60 Hz	
		Max. conveyor load	Should be 165 kg	
		Resolution (wire detectability)	standard: 39 AWG (0.09 mm) • typical: 40 AWG (0.08 mm)	
		Penetration (steel)	standard: 35 mm • typical: 37 mm	
		External dose rate	≤ 1.0 μSv/h (0,1 mrem)	
		Film safety	Should be for high-speed films up to ISO 1600 (33 DIN)	
		Duty cycle	100 %, no warm-up procedure required	
		Anode voltage	160 kV cp	
		Cooling	Hermetically sealed oil bath	
		Beam direction	Diagonal	
		X-ray converter	L-shaped detector line, high resolution	
		Grey levels stored	4096	
		Image presentation	B/W, Color	
		Digital memory video	1280 x 1024 / 24 bit	
		Image evaluation functions	VARI-MAT, O2, OS, HIGH electronic zoom: stepless enlargement up to 64-times	
		Monitor	Flat Panel LCD Monitor	
		System Diagnostics Features	Power-on Self-Test (POST), Real-time Background Diagnosis (RBD), Real-time System Feedback (RSF)	
		Additional Features	Display of date/time, software counters for: objects, alarms, operating hours, X-ray On hours, user ID-number, luggage marking system (acoustic), display of operating mode, REVIEW-feature of last 8 images, programmable priority keys, standard network interface, Automatic return mode, USB 3.0 interface, Printer support, IMS (Image Store System - stores up to 20,000 images), Two Interlock switches	

		Options	X-ACT, HI-TIP, SD Training System, Extended Image Storage of 500,000 images (HDD), Full Reverse Mode	
		Accessories	Keyboard Holder, Passive In-/Output Roller conveyors, Tunnel extensions, Monitor Theft Protection, Mobile Heavy Duty Rollers, Various Test Bags and Cases	
		X-ray leakage	Should meet all applicable laws and regulations with respect to X-ray emitting devices.	
		CE-labelling	in compliance with directives 2004/108/EC, 2006/42/EC, 2006/95/EC, 2014/35/EU, 2014/30/EU	
		Sound pressure level	< 65 dB(A)	
		Operating-/ storage temperature	0° - 40°C / -20°C - +60°C	
		Humidity	5% - 95% (non-condensing)	
		Power supply	220-240 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz	
		Power consumption	approx. 0.8 kVA	
		Protection class system/ keyboard	IP 20 / IP 43	
		Dimensions	2004 (L) x 850 (W) x 1395 (H) [mm] 78.9" (L) x 33.5" (W) x 54.91" (H)	
		Warranty	12 Months by OEM	
		Model	HI-SCAN 6040C or Equivalent.	
		Brand	Smiths Detection/ Rapiscan/ Astrophysics/ L-3 Security & Detection Systems/ Varito/ XRC or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan/ Turkey	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
3	Dual Lane Swing Barrier/ Barrier Optical Turnstile (Includes Two Lane in Each Set)	Throughput	Should be 20 - 30 People per minute apprx.	
		Dimensions	Clear moving barriers fabricated from 0.5" (13 mm) thick acrylic with abrasion resistant coating. Barriers should be 35" high and come in widths to create 28" or near to the mentioned dimension	
		Unauthorised User Detection	Should have Standard sensor set	
		Booking Signal	Should have Adjustable booking signal	
		Sound Alarm	Should have Standard buzzer	
		Tailgating Detection	Should have Standard Range	
		Fail Safe /Secure Operation	In case of power outage should have Battery Back-up	

		Fire Alarm Connection	Should have emergency egress settings depending on local regulations and or customer request	
		Safety Sensors	Should be Standard	
		Cabinet Material	Should be Stainless steel	
		Cabinet Colour	Should be Standard stainless steel	
		Power Supply	110-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 80W apprx.	
		Operating Temperature	: -5°C / +23°F to +40°C / +104°F	
		Access Control Systems	Dry contacts for virtually any access control device	
		Card Reader Mount	Under the top of the cabinet. Max. dimensions: 80 x 130 x 50 mm / 2" x 5" x 2" (WxLxH)	
		Warranty	12 Months by OEM	
		Model	Alvarado ARGUS 60/ SU4500 or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
4	Tripod Turnstile (Waist Height Turnstile)	Cabinet Width	Should be 230 mm apprx.	
		Cabinet Height	Should be 1000 mm apprx.	
		Cabinet Length	Should be 900 mm apprx.	
		Passage Width	Should be 402 mm apprx.,	
		Barrier Height	Should be 864 mm apprx.,	
		Number of Arms	3	
		Arm Length	Should be 442 mm apprx.	
		Throughput	15-20 People per minute	
		Flow	Bi-directional, one direction at a time	
		Cabinet Material	Should be Stainless Steel	
		Cabinet Colour	Should be Silver	
		Cabinet Shape	Straight sides	
		Arm Material	Should be Stainless steel	
		Flooring / Mount	On dead-level, finished floor	
		Power Supply	100-240 VAC, 50 / 60 Hz	
		Operating Power	Should be 35W apprx.	
		Operating Temperature	-15C to +45C	
		Warranty	12 Months by OEM	
		Model	Alvarado EDC Series (Preferably EDC-6X) or Equivalent.	
		Brand	Alvarado/ Boon Edam/ Gunnebo or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
5	Hand Held Metal	Indication	Should have Three-color LED	

	Detector	Controls	Should have Power switch (Audible/ Off/ Silent), Interference Elimination Switch	
		Tuning	Automatic	
		Sensitivity	Secure internal sensitivity adjustment	
		Audio Frequency	2 kHz Warble	
		Operating Temperatures	-35° F (-37° C) to 158° F (70° C)	
		Dimension	Width: 3.25" (8.3 cm), Thickness: 1.625" (4.1 cm), Length: 16.5" (42 cm)	
		Battery Requirements	Should have One 9V (included). Should provide up to 100 hours of normal operation.	
		Warranty	3 Year, Limited Parts/Labor	
		Model	Super Scanner-V or Equivalent.	
		Brand	Garrett/ Securina or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
6	Face Detection Terminal	CPU:	Nvidia ARM Cortex-A15, Quad-Core 2.1GHz	
		Display Size:	7" WVGA color capacitive touchscreen with Loudspeaker & microphone	
		Touchless face sensor:	Visible light camera (2D) Infrared camera (2D) 3D camera	
		Contactless reader options:	Prox, iClass, MIFARE/ DESFire, Natively supports PIN code	
		Internal storage capacity	20,000 user records extendable up to 40,000 250,000 IDs in authorized user list 1 Million transaction logs	
		Inputs/outputs	Wiegand In & Out (customizable up to 512 bits), OSDP, Door relay, 3 GPI (including door monitoring), 3 GPO	
		Mobile access	Yes	
		Network/ Communication	Ethernet, RS485, RS422, USB3, Wi-Fi and 4G options	
		Power supply	12 to 24 V DC (3A min @12V)	
		Operating conditions	Temperature: -10°C to 45°C (14°F to 113°F) Humidity: 10%>80% (non-condensing)	
		Ingress protection	IP65	
		Dimension	HxWxD: 325x143x110 mm/12.8x5.6x4.3 in	
		EMC/ Safety standards:	CE, CB, FCC, UL-294 Listed.	
		Warranty	12 Months	
		Model	Anviz FaceDeep 5 IRT or Equivalent.	
		Brand	Anviz/ IDEMIA/ ZKTeco or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	

		Authorization Letter	Must be issued by OEM.	
7	Hand Held Terminal (HHT)	Dimensions	6.96 in. L x 3.38 in. W x 1.12 in. H/176.8 mm L x 85.8 mm W x 28.4 mm H; Grip area: 3.179 in. W x 0.80 in. H/80.75 mm W x 20.3 mm H	
		Display	6.0-inch Full High Definition+ (1080 X 2160); LED backlight; optically bonded to touch panel	
		Imager Window	Corning® Gorilla® Glass	
		Touch Panel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately); Corning® Gorilla® Glass; Water droplet rejection; fingerprint resistant anti-smudge coating	
		Power	Rechargeable Li-Ion, PowerPrecision+ for real-time battery metrics; Standard Capacity: 4680 mAh (18.01-Watt hours); Extended Capacity: 7000 mAh (26.95 Watt hours); BLE battery: 4680 mAh; Qi compatible Wireless charge battery: 4680 mAh; fast charging, Warm Swap battery mode (standard SKUs); Hot Swap battery mode (premium SKUs)	
		Expansion Slot	User accessible MicroSD card supports up to 2 TB	
		SIM	TC78 only: 1 Nano SIM and 1 eSIM	
		Network Connections	TC73: WLAN, WPAN (Bluetooth); TC78: WWAN 5G	
		Keypad	On-screen keypad	
		Voice and Audio	Three microphones with noise cancellation; vibrate alert; dual speakers for loudness; Bluetooth wireless headset support; high quality speaker phone; PTT headset (Zebra USB-C) support; cellular circuit switch voice; HD Voice, including Super-wideband (SWB); Wideband (WB) and Fullband (FB)	
		Operating Temperature	-4° F to 122° F/-20° C to 50° C	
		Humidity	5% to 95% non-condensing	
		Drop Specification	Multiple 10 ft./3.05 m drops to concrete at room temp per MIL-STD 810H Multiple 8 ft./2.4 m drops to concrete over operating temp -20° C to 50° C per MIL-STD 810H	
		Sealing	IP65 and IP68 with battery per applicable IEC sealing specifications	
		Scanning	SE55 1D/2D Advanced Range Scan Engine with IntelliFocus™ technology; SE4770 1D/2D Scan Engine	

		Camera	Front — 8 MP; Rear — 16 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR (standard); Optical Image Stabilization (OIS) (premium SKUs only); Time of Flight (ToF) Sensor (premium SKUs only)	
		NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support; ECP1.0 and ECP2.0 polling support; Apple VAS certified; NFC Forum Certified and Google Smart Tap Ready	
		Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS including TSPEC	
		Bluetooth	Class 2, Bluetooth v5.2 and Secondary BLE for beaconing within BLE battery	
		Buttons	Programmable buttons for maximum flexibility: dual dedicated scan buttons; dedicated push-to-talk button; volume up/down buttons and Trigger button of Trigger Handle via Back I/O	
		Interface Ports	USB 2.0 (Back I/O — Host Only), USB 3.0 (Bottom Type C) — Super Speed (Host and Client)	
		Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi 6E (802.11ax); Wi-Fi™ certified; Wi-Fi™ 6E Certified; Dual Band Simultaneous; IPv4, IPv6	
		Data Rates	5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps; 2.4 GHz: 802.11b/g/n/ax — 20 MHz up to 286.8 Mbps 6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps	
		Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6; Wi-Fi Enhanced Open; WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Agile Multiband; WMM; WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; QoS Management; OCE	
		Warranty	12 Months by OEM	
		Model	Zebra TC78 or Equivalent.	
		Brand	Zebra/ Datalogic/ Panasonic or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
8	Barcode Scanner	Dimensions	Corded: 7.3 in. H x 3.0 in. W x 5.2 in. D 18.5 cm H x 7.6 cm W x 13.2 cm D Cordless: 7.3 in. H x 3.0 in. W x 5.6 in. D 18.5 cm H x 7.7 cm W x 14.2 cm D	

		Input Voltage Range	Host powered: 4.5 VDC min., 5.5 VDC max. External power supply: 11.4 VDC min., 12.6 VDC max.	
		Supported Host Interfaces	USB, RS232, Keyboard Wedge Industrial Ethernet: EtherNet/IP, Profinet, Modbus TCP & Std TCP/IP	
		Battery	PowerPrecision+ 3100 mAh Li-Ion rechargeable battery	
		FIPS Security Certification and TAA Compliance	Certified Compliant with FIPS 140-3; Trade Agreement Act Compliant (specific configuration required)	
		User Indicators	Direct decode indicator; LEDs; beeper; vibration	
		Scans per Full Charge (Cordless)	80000	
		Image Capture	Basic	
		Aimer	520 nm laser	
		Image Sensor	Far: 1920 horizontal x 1080 vertical pixels Near: 1280 horizontal x 800 vertical pixels	
		Scanning Type	Should be omnidirectional and capable to scan 1D & 2D	
		Drop Specification	DS36X8: Withstands multiple 10.0 ft/3.0 m drops to concrete at room temperature Cordless: Withstands multiple 8.0 ft/2.4 m drops to concrete at -20° C to 50° C Corded: Withstands multiple 8.0 ft/2.4 m drops to concrete at -30° C to 50° C	
		Sealing	Scanner: IP65 and IP68 per applicable IEC sealing specifications FLB cradle: IP65	
		Bluetooth Radio	Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) and HID profiles	
		Warranty	12 Months	
		Model	DS3600-XR Ultra-Rugged Scanner or Equivalent.	
		Brand	Zebra/ Datalogic/ Honeywell or Equivalent.	
		Country of Origin	USA/ Canada/ EU Countries/ UK/ Japan	
		Country of Shipment	Should be same as Country of Origin.	
		Authorization Letter	Must be issued by OEM.	
9	Camera for Face Image Enrolment	Camera	Minimum 18 MP	
		Video Resolution	Minimum 1920 x 1080 Pixel/ 30fps	
		Image Resolution	Minimum 1920 x 1080 Pixel	
		Interface	Should have USB 2.0 and microphone	
		Warranty	12 Months	
		Model	Logitech MX Brio 4K UHD or Equivalent.	
		Brand	Logitech/ Asus/ Optoma or Equivalent.	
10	32" LED Display	Resolution	Minimum 1920 x 1080 (FHD)	
		Aspect Ratio	Should have 16:9	

		Display Color	Minimum 16.7 M (8bit)	
		Viewing Angle	Minimum 178 degree horizontal and 178 degrees vertical	
		Response Time	Maximum 8ms	
		Interface	Minimum 1 VGA, 1 HDMI, 1 USB and speaker	
		Power Supply	Should have AC100~240V (+/-10%), 50/60 Hz	
		Power Consumption	Maximum standby power consumption 0.5W and operating power consumption 55W	
		Accessory	Should come with HDMI cable, power cable, remote control and hanging bracket	
		Warranty	12 Months	
		Brand	Dell/ HP/ Lenovo or Equivalent.	
11	3 KVA Online UPS	Output Capacity	Should be 3000VA/240W	
		Output Power Factor	Should be 0.8	
		Output Nominal Voltage	Range should be 220-240 VAC	
		Output Voltage Regulation	Should be 1%	
		Output Frequency Range	Should be 47-53 Hz or 57-63 Hz	
		Output AC-AC Efficiency	Minimum 92%	
		Output Battery Mode Efficiency	Minimum 88%	
		Input Configuration	Single phase line-neutral+PE	
		Input Nominal Voltage	Range should be 200-240 VAC	
		Input Voltage Range	Should be 110V-280V @50% load	
		Battery type	Should be maintenance free lead acid battery or equivalent	
		Battery backup time	Minimum 10 minutes	
		Battery brand	Minimum 9AH	
		Battery Blocks	Minimum 6	
		Temperature	Operating:0 to 40 deg. centigrade	
			Storage:-20 to 50 deg. Centigrade	
		Monitoring Software	Monitoring Software should be included with SNMP Card.	
		Management	Should be equipped with Smart RS 232/USB and should support Windows.	
		Warranty	12 Months	
12	Manageable Switch	Chassis Types	Rack mount	
		Interface	24x10/100/1000 Base-T 1x RJ45 management console port 4 GE SEP Uplink ports	

		Architecture	The Switch should support Stacking from Day 1 via standard interfaces for a scalable solution. Should support 1000Base- SX, LX, LH and T ports, should have at least 56 Gbps switching bandwidth, Should have switching throughput of up to 41 million PPs, MAC Address table size of 15000 entries	
		Layer 2 and Layer 3 feature	Should support IEEE 802.1Q (4000 VLAN IDs) and 1000 VLANs simultaneously	
			Should support Multiple VLAN Registration Protocol (MVRP, IEEE 802.1ak) for dynamic registration and deregistration of VLANs on ports in a VLAN bridged network	
			Should support Jumbo frames of 9000 bytes	
			Should support IPv4 Static IP routing, RIP from Day 1 with support for OSPF in future	
			Should support IPv4 Static IP routing	
			Should support VRRP for redundancy	
			Should support Multicast VLAN Registration (MVR) to distribute multicast streams across an Ethernet ring-based Layer 2 network and reduce the amount of bandwidth consumed by the multicast traffic	
		Manageability	The offered system shall support management via Web based GUI, CLI	
			Should support port mirroring and mirror traffic that is traversing interfaces or a VLAN on the switch to a different location for analysis	
			Should support IPv6 management features like neighbor discovery (RFC 4861), Telnet, SSH, SNMP, NTP, DNS	
			Should have monitoring technology like net flow/s-flow to randomly sample network packets and send the samples to a monitoring station	
			Should store multiple configuration and image files	
			Should have the capability to revert to the last known good state if the switch image, configuration and the backup configuration files become damaged beyond repair	
			Should support automatic configuration over the network from a pre-existing configuration file that is created and stored on a configuration server	
			Should support automatic software download feature using the DHCP message exchange process to download and install software packages.	
			Should support standard IP-MIB (RFC 4293) and SNMP v1, v2 & v3	
		Memory	Minimum DRAM 512 MB	

		Flash	Minimum 1 GB	
		CPU	Should have 800 MHz ARM CPU or higher	
		Power Supply	Standard Power Supply with necessary power cord to be provided. Bidder to mention the power in Watts along with PoE power budget	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ MikroTik or Equivalent.	
13	32 Port SFP Switch	Ports	28 Gigabit Ethernet (24 Gigabit SFP slots + 2 Gigabit Ethernet combo)	
		Flash	Minimum 256MB	
		Performance	Capacity in Millions of Packets per Second (mpps) (64-byte packets): 41.66 Switching Capacity in Gigabits per Second (Gbps): 56.0	
		Warranty	12 Months	
		Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
14	SFP Module	Transfer Rate	1Gbps	
		Standard Operating Temperature	10°C ~ 70°C	
15	Access Point	CPU	Should be 4 core with a speed of 716 MHz or higher	
		RAM	128 MB or higher	
		Storage	16MB flash or higher	
		Number of Ethernet Ports	Minimum one 1G ports	
		Wireless	5 GHz and 2.4 GHz	
		Protocols	For 5Ghz 802.11a/n/ac and for 2.4GHz 802.11b/g/n	
		Chains	Dual-chain for both 5GHz and 2.4GHz	
		Wireless Interface Model	IPQ-4018 for both 5GHz and 2.4GHz	
		Antenna Gain	2.5dBi for both 5GHz and 2.4GHz	
		Antenna Beam Width	Should be 360 degrees	
		Power	Maximum power consumption should be 12W, and it should have PoE option	
		Warranty	12 Months	
16	Rack Mounted Server	Brand	Netgear/ Cisco/ Aruba/ MikroTik or Equivalent.	
		CPU	2x Intel Xeon Silver 4208 2.1G, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400	
		RAM	Minimum 64GB	
		Storage	4 x 600GB 10K RPM	
		PSU	450W hot plug redundancy	
		Network	2x 1gbps, 2x10gbps SFP	
		Operating System	Linux	
		Remote Management	Enterprise license	
		Warranty	12 Months	
17	Rack with PDU	Brand	Dell/ HP or Equivalent.	
		Size	42U	

18	KVM Switch	PDU	2 x Power distribution unit	
		Warranty	12 Months	
		Ports	8-ports	
		I/O Ports	VGA, PS2, USB	
		Touchpad	Must have touchpad	
		Keyboard	Must have keyboard	
		Display	17"	
		Warranty	12 Months	
19	ID Card Printer with Colour Ribbon (10 nos. Ribbons for each Printer must be provided)	Print Resolution	Minimum 300 dpi	
		Memory	Minimum 2GB flash memory	
		Image Size	Minimum 1006 x 640 pixels	
		Interface	Should have USB 2.0 and Ethernet 10/100 connectivity	
		Card Capacity	Input Hopper: 100 card auto adjusting or higher	
			Output Hopper: 100 card or higher	
		Card Feeding	Should have manual card feeding capability with LED bezel	
		Indicators	Should have printer status indicator lights	
		Security	Should have secure lock system and printer host authentication system along with data encryption option	
		Printing Features	Should have following printing features:	
			a. Full color or monochrome printing	
			b. Dual and single side printing	
			c. Edge-to-edge printing	
			d. For single sided monochrome minimum 800 cards/hour print, single sided YMCKO 200 cards/hour, dual sided YMCKOk 140 cards/hour, dual sided monochrome 450 coeds/hour	
			e. Printer ribbon should be same brand as the printer.	
		Card Types	Should have following card printing capability:	
			a. Card thickness: 10-40 mil	
			b. Card material: PVC and PVC Composite	
			c. Adhesive back and writeable back cards	
			d. Transparent cards	
			e. Card Size: CR80 ISO 7810 ID-1 format	
		Ambience	Operating temperature:15-35 degree Celsius	
			Storage Temperature: -5 to 70 degree Celsius	
			Humidity: 20% to 80% non-condensing	
		Warranty	12 Months	
		Model	Zebra ZC300 or Equivalent. (Ribbon: Zebra ZC100/ZC300 YMCKO Color Ribbon or Equivalent)	
		Brand	Zebra or Equivalent.	

20	Desktop Set with Printer & UPS (Offline)	Key Features	Specifications: Monitor: 21.5 Inch FHD Display HDMI, VGA (HP V22v or Equivalent), System Unit: Form Factor - Tower, Processor Type - Core i7, Processor Max Turbo Frequency - 4.90GHz, RAM - 8GB, Hard Disk Drive (HDD) - No, Solid-State Drive (SSD) - 512GB Graphics Memory - Shared (HP 280 Pro G9 12th Gen Intel Core i7 12700 Tower Brand PC or Equivalent), Offline UPS: Input Voltage (V) - 145-280V, Output Voltage (V) - 220/230 VAC +/-10%, Load Capacity - 720W, Back up time - Up to 15 Minutes (Power Guard PG1200VA or Equivalent), Printer: Output Color - Black & White, Print Speed (Black) - 40ppm(ISO) (A4), 42ppm(ISO) (LTR), Print Paper Size Max. - Legal, Interface (Built-in) - USB, LAN(HP LaserJet Pro 4003dn Single Function Mono Laser)	
		Warranty	12 Months	
		Brand:	HP/ Dell or Equivalent	
21	POS Printer	Key Features	Type Thermal Printer, Print Speed - 200 mm/sec, Print Width - 80mm, Print Resolution (Pixel) - 203 dpi, Interface (Built-in) - USB, Serial (Epson TM-T81III POS Printer or Equivalent) Warranty: 36 Months Brand: Epson or Equivalent.	
		Warranty	12 Months	
		Brand	Epson or Equivalent.	
22	RFID Card	Key Features	Type- RFID Card, Punching Capacity - No, Material - PVC (K2 Mango TK 28 or Equivalent)	
		Brand	K2 or Equivalent.	
23	Under Vehicle Inspection Mirror	Key Features	Under vehicle inspection mirror, wheels and flashlight, foldable, 30 cm x 30 cm acrylic mirror	
		Brand	Verbex or Equivalent.	
24	Network Accessories	To be Complied	The scope of Network Accessories shall cover all sort of Network Cables (FOC, Ethernet, Patch Cords etc.), RJ Ports, Connectors, Splicing Tools, TJ Boxes, Media Converters, ONUs, 8 Port Switches and all other tools and devices that are necessary for a complete access control networking.	

2. Details of Related Service to be provided with Supplied Items

1	Installation	Installation of All the Supplied Items of BOQ as per Standard with all the associated Software to run the Devices in a Seamless Manner. Licensed Software must be installed on the devices wherever applicable or required. For Installation of Imported & Major Devices OEM's Guideline must be followed by the Supplier. In required cases, OEM shall supervise the critical installation engaging their own personnel.	
2	Software	For smooth handshaking with the existing Access Control System Necessary Software (Oracle or other platform-based) must be provided at the Server & Control End. The Existing software must be Replaced or Upgraded if required. The supplier provided licenses must be updated along with updating the existing licenses as well. All the Source Codes and Access Credential must be Handed Over to CPA immediately after completion of the Software Installation & upgradation job. Supplier shall provide all the required Software (whether the software or the License) to activate the whole access control system including the existing one.	
3	Spares & Maintenance Work	<ul style="list-style-type: none"> i. All the Spares required for keeping the systems 24 x 7 functional must be provided with the supplied items and be handed over to the CPA after the completion of Installation Work. All the Spares must remain under CPA's Custody. The supplier must declare the list of Spares provided with the Items Delivered before the arrival of the Items at the CPA Premises. The list must be conspicuous and well-defined against each item. During replacement the out-of-order parts must be deposited to the respective person in the security department. Only after complying so shall the supplier be allowed to receive the parts to be replaced by CPA's Custody. ii. The maintenance period shall cover 36 months on successful completion of the One Year Warranty Period. The Supplier must maintain a Maintenance Log to claim the payment. iii. Required no of Manpower must be provided by the Supplier for the 36 months of Maintenance Period. The Supplier must engage the number of Manpower with Specific Qualification as mentioned below: <ul style="list-style-type: none"> - a. Maintenance Engr. - 2 Persons- With Specific Experience of min. 3 Years having B.Sc. (Engg.) Degree from any Reputed University. - b. Asst. Maintenance Engr. - 4 Persons- With Specific Experience of min. 5 Years having Diploma (Engg.) Degree from any Reputed Polytechnic College. - c. Technician - 10 Persons- Experience of min. 8 Years in respective job field. - d. Helper - 15 Persons- Experience of min. 2 Years in respective job field. 	

4	Monthly Maintenance Report	<p>The Supplier must prepare & furnish a monthly maintenance report for 36 months on successful completion of the One Year Warranty Period. No payment will be issued in favour of the supplier without submission of the mentioned Monthly Report. The Report shall cover the details of the health check of each of the devices with the clarification of replacement of spares if required.</p> <p>The reports must be duly signed at the end of each month by the competent authority of CPA.</p>
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Signature:	<i>[insert signature of authorised representative of the Tenderer]</i>
Name:	<i>[insert full name of signatory with National ID]</i>
In the capacity of:	<i>[insert designation of signatory]</i>
Duly authorised to sign the Tender for and on behalf of the Tenderer	

.5 Form of Change Order Procedure and Forms

Contract No:
To:

Date:

[Name of Contractor]

CONTENTS

1. General
2. Change Order Log
3. References for Changes

ANNEXES

- Annex 1 Request for Change Proposal
- Annex 2 Estimate for Change Proposal
- Annex 3 Acceptance of Estimate
- Annex 4 Change Proposal
- Annex 5 Change Order
- Annex 6 Pending Agreement Change Order
- Annex 7 Application for Change Proposal

Change Order Procedure

1. General

This section provides samples of procedures and forms for implementing changes in the Facilities during the performance of the Contract in accordance with GCC Clause 64 (Change in the Facilities) of the General Conditions.

2. Change Order Log

The Contractor shall keep an up-to-date Change Order Log to show the current status of Requests for Change and Changes authorized or pending, as Annex 8. Entries of the Changes in the Change Order Log shall be made to ensure that the log is up-to-date. The Contractor shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Employer.

3. References for Changes

- (1) Request for Change as referred to in GCC Clause 64 shall be serially numbered CR-X-nnn.
- (2) Estimate for Change Proposal as referred to in GCC Clause 64 shall be serially numbered CN-X-nnn.
- (3) Acceptance of Estimate as referred to in GCC Clause 64 shall be serially numbered CA-X-nnn.
- (4) Change Proposal as referred to in GCC Clause 64 shall be serially numbered CP-X-nnn.
- (5) Change Order as referred to in GCC Clause 64 shall be serially numbered CO-X-nnn.

Note: (a) Requests for Change issued from the Employer's Home Office and the Site representatives of the Employer shall have the following respective references:

Home Office	CR-H-nnn
Site	CR-S-nnn

- (b) The above number "nnn" is the same for Request for Change, Estimate for Change Proposal, Acceptance of Estimate, Change Proposal and Change Order.

Annex 1. Request for Change Proposal

(Employer's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

With reference to the captioned Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within _____ days of the date of this letter _____.

1. Title of Change: _____
2. Change Request No. _____
3. Originator of Change: Employer: _____
Contractor (by Application for Change Proposal No. _____¹⁶:
4. Brief Description of Change:

5. Facilities and/or Item No. of equipment related to the requested Change:

6. Reference drawings and/or technical documents for the request of Change:

<u>Drawing No./Document No.</u>	<u>Description</u>
7. Detailed conditions or special requirements on the requested Change:

8. General Terms and Conditions:
 - (a) Please submit your estimate to us showing what effect the requested Change will have on the Contract Price.
 - (b) Your estimate shall include your claim for the additional time, if any, for completion of the requested Change.
 - (c) If you have any opinion negative to the adoption of the requested Change in connection with the conformability to the other provisions of the Contract or the safety of the Plant or Facilities, please inform us of your opinion in your proposal of revised provisions.
 - (d) Any increase or decrease in the work of the Contractor relating to the services of its personnel shall be calculated.
 - (e) You shall not proceed with the execution of the work for the requested Change until we have accepted and confirmed the amount and nature in writing.

Signature:	<i>[insert signature of authorised representative of the Employer]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Employer:	<i>[insert name of the Employer]</i>

Annex 2. Estimate for Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost of preparing the below-referenced Change Proposal in accordance with GCC Sub-Clause 64.2.1 of the General Conditions. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GCC Sub-Clause 64.2.2, is required before estimating the cost for change work.

1. Title of Change: _____
2. Change Request No./Rev.: _____
3. Brief Description of Change: _____
4. Scheduled Impact of Change: _____
5. Cost for Preparation of Change Proposal: _____¹⁷

(a) Engineering (Amount)

(i) Engineer _____ hrs x _____ rate/hr =
(ii) Draftsperson _____ hrs x _____ rate/hr =
Sub-total _____ hrs

Total Engineering Cost

(b) Other Cost

Total Cost (a) + (b)

Signature:	<i>[insert signature of authorised representative of the Employer]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Employer:	<i>[insert name of the Employer]</i>

¹⁷ Costs shall be in the currencies of the Contract.

Annex 3. Acceptance of Estimate

(Employer's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We hereby accept your Estimate for Change Proposal and agree that you should proceed with the preparation of the Change Proposal.

1. Title of Change: _____
2. Change Request No./Rev.: _____
3. Estimate for Change Proposal No./Rev.: _____
4. Acceptance of Estimate No./Rev.: _____
5. Brief Description of Change: _____
6. Other Terms and Conditions: In the event that we decide not to order the Change accepted, you shall be entitled to compensation for the cost of preparation of Change Proposal described in your Estimate for Change Proposal mentioned in para. 3 above in accordance with GCC Clause 64 of the General Conditions.

Signature:	<i>[insert signature of authorised representative of the Employer]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Employer:	<i>[insert name of the Employer]</i>

Annex 4. Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

In response to your Request for Change Proposal No. _____, we hereby submit our proposal as follows:

1. Title of Change: _____
2. Change Proposal No./Rev.: _____
3. Originator of Change: Employer: / _____
Contractor: _____
4. Brief Description of Change: _____
5. Reasons for Change: _____
6. Facilities and/or Item No. of Equipment related to the requested Change: _____
7. Reference drawings and/or technical documents for the requested Change:

<u>Drawing/Document No.</u>	<u>Description</u>
8. Estimate of increase/decrease to the Contract Price resulting from Change Proposal:¹⁸

(Amount)

- (a) Direct material
- (b) Major construction equipment
- (c) Direct field labor (Total _____hrs)
- (d) Subcontracts
- (e) Indirect material and labor
- (f) Site supervision
- (g) Head office technical staff salaries

Process engineer	_____hrs	@	_____rate/hr	
Project engineer	_____hrs	@	_____rate/hr	

¹⁸ Costs shall be in the currencies of the Contract.

Equipment engineer	_____ hrs @ _____	rate/hr
Procurement	_____ hrs @ _____	rate/hr
Draftsperson	_____ hrs @ _____	rate/hr
Total	_____ hrs	

- (h) Extraordinary costs (computer, travel, etc.)
- (i) Fee for general administration, _____ % of Items
- (j) Taxes and customs duties

Total lump sum cost of Change Proposal
(Sum of items (a) to (j))

Cost to prepare Estimate for Change Proposal
(Amount payable if Change is not accepted)

9. Additional time for Completion required due to Change Proposal
10. Effect on the Functional Guarantees
11. Effect on the other terms and conditions of the Contract
12. Validity of this Proposal: within [Number] days after receipt of this Proposal by the Employer
13. Other terms and conditions of this Change Proposal:
 - (a) You are requested to notify us of your acceptance, comments or rejection of this detailed Change Proposal within _____ days from your receipt of this Proposal.
 - (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.
 - (c) Contractor's cost for preparation of this Change Proposal:²

Signature:	<i>[insert signature of authorised representative of the Contractor]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Contractor:	<i>[insert name of the Contractor]</i>

² Specify where necessary.

Annex 5. Change Order

(Employer's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We approve the Change Order for the work specified in the Change Proposal (No. _____), and agree to adjust the Contract Price, Time for Completion and/or other conditions of the Contract in accordance with GCC Clause 64 of the General Conditions.

1. Title of Change: _____
2. Change Request No./Rev.: _____
3. Change Order No./Rev.: _____
4. Originator of Change: Employer: _____
Contractor: _____
5. Authorized Price:
Ref. No.: _____ Date: _____
Foreign currency portion _____ plus Local currency portion _____
6. Adjustment of Time for Completion
None days Increase _____ days Decrease _____
7. Other effects, if any

Authorized by: _____
(Employer)

Date:

Accepted by: _____
(Contractor)

Date:

Annex 6. Pending Agreement Change Order

(Employer's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We instruct you to carry out the work in the Change Order detailed below in accordance with GCC Clause 64 of the General Conditions.

1. Title of Change: _____
2. Employer's Request for Change Proposal No./Rev.: _____ dated: _____
3. Contractor's Change Proposal No./Rev.: _____ dated: _____
4. Brief Description of Change: _____
5. Facilities and/or Item No. of equipment related to the requested Change: _____
6. Reference Drawings and/or technical documents for the requested Change:

<u>Drawing/Document No.</u>	<u>Description</u>
-----------------------------	--------------------
7. Adjustment of Time for Completion:
8. Other change in the Contract terms:
9. Other terms and conditions:

Signature:	<i>[insert signature of authorised representative of the Employer]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Employer:	<i>[insert name of the Employer]</i>

Annex 7. Application for Change Proposal

(Contractor's Letterhead)

To:

Date:

Attention:

Contract Name:

Contract Number:

We hereby propose that the below-mentioned work be treated as a Change in the Facilities.

1. Title of Change: _____
2. Application for Change Proposal No./Rev.: _____ dated: _____

3. Brief Description of Change: _____
4. Reasons for Change:
5. Order of Magnitude Estimation (in the currencies of the Contract):
6. Scheduled Impact of Change:
7. Effect on Functional Guarantees, if any:
8. Appendix:

Signature:	<i>[insert signature of authorised representative of the Contractor]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
Title of the Signatory:	<i>[insert title of the Signatory]</i>
Name of the Contractor:	<i>[insert name of the Contractor]</i>

Signature

Seal

6.6Supplementary Information

[The Tenderer shall furnish additional description/information covering all activities, if any]

Section 7. Drawings

Notes on Drawings

Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section or annexed in a separate folder. The Drawings shall be dated, numbered and show the revision number.